



Cripple Creek & Victor
Gold Mining Company
100 North 3rd Street
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SENT VIA ELECTRONIC MAIL

July 25, 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: 2nd Quarter 2024
Surface Water Monitoring Data: 2nd 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 2nd quarter (April through June) 2024.

METHODOLOGY

In the 2nd quarter (Q2), 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, and SGMW-7B were dry and monitoring well SGMW-8 had insufficient water recharge to collect a sample;
- Arequa Gulch monitoring well CRMW-5A had insufficient water recharge to collect a sample and ESPMW-1 had insufficient water to collect a sample;
- Wilson Creek monitoring surface water location WCSW-01 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 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.



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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 Q2 2024. Of the QA/QC samples, five duplicate samples were collected from monitoring well GVMW-25 were collected on 4/10/2024 and 5/7/2024; two duplicate samples were collected from GVMW-26B on 4/3/2024 and 6/5/2024; and three duplicate samples were collected from GVMW-7A on 4/4/2024. Five rinse blanks were collected this quarter and were sent with the samples to the analytical laboratory. Rinse blanks were collected during the quarterly and monthly Grassy Valley sampling events. These rinse blanks were collected on 4/3/2024, 4/4/2024, 4/10/2024, 5/7/2024, and 6/5/2024. One trip blank sample was also collected on 4/18/2024. 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 2nd 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 2nd 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



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well samples are included within the QA/QC section. All the RPD calculations were less than 20% except for one outlier (20.37% for Vanadium in the GVMW-25 on 04/10/2024 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 exceeded the existing NPL's for aluminum and pH, and the table value standard 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 was higher than the Numeric Protection Levels (NPL's) for dissolved aluminum, dissolved cadmium, dissolved copper, total fluoride, dissolved manganese, field pH (less than the lower limit), dissolved zinc, and the Table Value Standards for dissolved beryllium, dissolved cobalt, dissolved nickel, total sulfate, and dissolved uranium. 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 exceeded concentrations of beryllium, fluoride, nickel, and sulfate as compared to the Table Value Standards 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-3B, CRMW-3C, CRMW-5B, CRMW-5C, and CRMW-5D exceeded the Table Value Standards and site-wide NPL for fluoride. Monitoring wells CRMW-3A and CRMW-3C exceeded the Table Value Standards for sulfate. Results recorded from monitoring wells within Arequa Gulch are consistent with historic observations.

The surface water sample collected from AG-2.0 is compliant with Regulation 32 standards for all constituents.

Wilson Creek

Monitoring well WCMW-6 within the Wilson Creek drainage exceeded the Table Value Standards and site-wide NPL 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 second quarter Vindicator Valley concentrations for the VIN-2A and VIN-2B samples collected are generally consistent with previously reported concentrations. Samples collected from VIN-2A exceeded the Table Value Standard sulfate but is compliant with all other applicable well-specific NPL's and the Table Value Standards. Sulfate concentrations for VIN-2A are also below the established NPL value of 800 for VIN-2B.

The surface water sample collected from T-2 exceeded the Regulation 32 standard for nitrite but was

compliant for all other constituents.

Grassy Valley

Monitoring well GVMW-8B and GVMW-22A exceeded Table Value Standards for fluoride and monitoring well GVMW-25 exceeded 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 exceedances at GVMW-8B and GVMW-22A are consistent with previously reported concentrations. Concentrations at GVMW-25 have generally decreased as compared to Q4 2023. Peak concentrations have been observed historically in August and September and is likely associated with increased precipitation from monsoon season. Concentrations tend to decrease throughout the spring and summer. 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 Q2.

Surface water samples were collected from GV-03 on 04/16/2024 (dry in May and June), GV-02 on 04/16/2024 and 05/29/2024 (dry in June), and GV-06 throughout the quarter. In April 2024 GV-03 exceeded Regulation 32 standards for acute phosphorus, chronic dissolved cadmium, and chronic and acute dissolved zinc.

In Q2 2024 the GV-02 location exceeded Regulation 32 standards of chronic and/or acute levels for pH, dissolved and total cadmium, sulfate, dissolved manganese, dissolved and total nickel and dissolved zinc. Please refer to Attachment 3 for a detailed comparison for analytes and standards.

Additionally, in Q2 2024, the GV-06 monitoring location exceeded Regulation 32 standards for phosphorus, total and dissolved iron, dissolved manganese. Results from the GV-06 location are consistent with historic observations. Please refer to Attachment 3 for a detailed comparison for analytes and standards.

Reported Exceedances

As reported on May 8, 2024 and June 26, 2024, CC&V collected the second quarter groundwater samples from monitoring well PGMW-5 and CRMW-5B on 04/18/2024 and 04/30/2024, respectively.

Upon review of received analytical reports, CC&V determined the groundwater sample collected at monitoring well PGMW-5 exceeded the established NPLs for dissolved aluminum, dissolved cadmium, dissolved copper, total fluoride, dissolved manganese, field pH (less than the lower limit), dissolved zinc, and the Table Value Standards for dissolved beryllium, dissolved cobalt, dissolved nickel, total sulfate, and dissolved uranium.

Location	Sample Date	Parameter	Value (mg/L)	NPL (mg/L)	Table Value Standard (mg/L)
PGMW-5	4/18/2024	Aluminum - Dissolved	71.7	7	
PGMW-5	4/18/2024	Beryllium - Dissolved	0.0101		0.004



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PGMW-5	4/15/2024	Cadmium - Dissolved	0.0458	0.005	
PGMW-5	4/18/2024	Cobalt - Dissolved	0.201		0.05
PGMW-5	4/18/2024	Copper - Dissolved	1.48	0.2	
PGMW-5	4/18/2024	Fluoride - Total	9.68	2	
PGMW-5	4/18/2024	Manganese - Dissolved	47	3	
PGMW-5	4/18/2024	Nickel - Dissolved	0.358	0.2	
PGMW-5	4/18/2024	pH Field	3.67	6.0 - 8.5	
PGMW-5	4/18/2024	Sulfate	1,060		250
PGMW-5	4/18/2024	Uranium - Dissolved	0.0355		0.03
PGMW-5	4/18/2024	Zinc - Dissolved	6.01	2	

Upon review of received analytical reports, CC&V determined that the groundwater sample collected at monitoring well CRMW-5B exceeded the established NPLs for total fluoride.

Location	Sample Date	Parameter	Value (mg/L)	NPL (mg/L)	Table Value Standard (mg/L)
CRMW-5B	4/30/2024	Fluoride - Total	2.75	2	2

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,

DocuSigned by:

5A3D013B629844B...

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

EC: P. Lennberg
M. Cunningham
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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

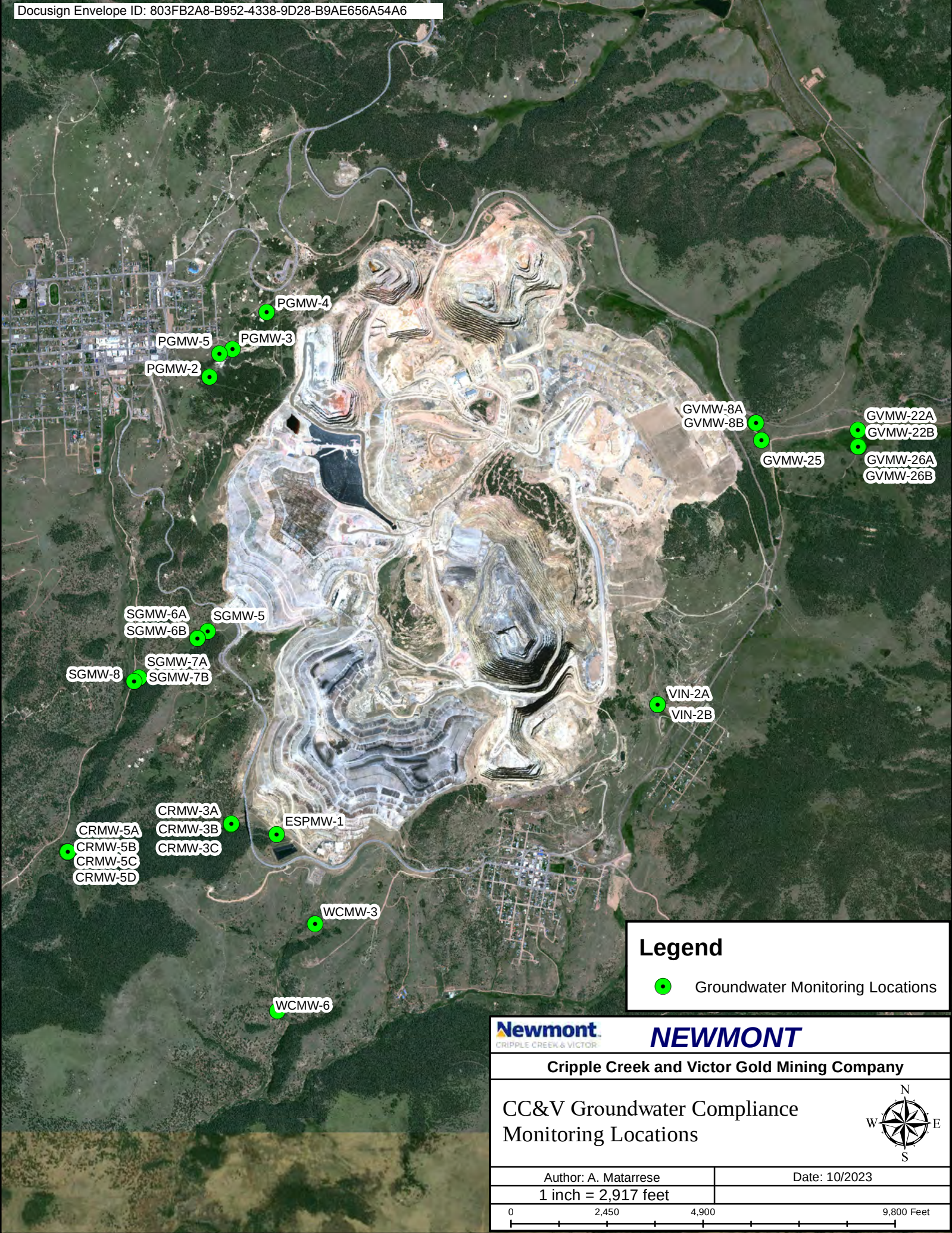
Attachment 5: Graphs



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Figures



Legend

● Groundwater Monitoring Locations

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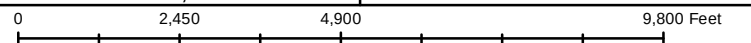
CC&V Groundwater Compliance
Monitoring Locations

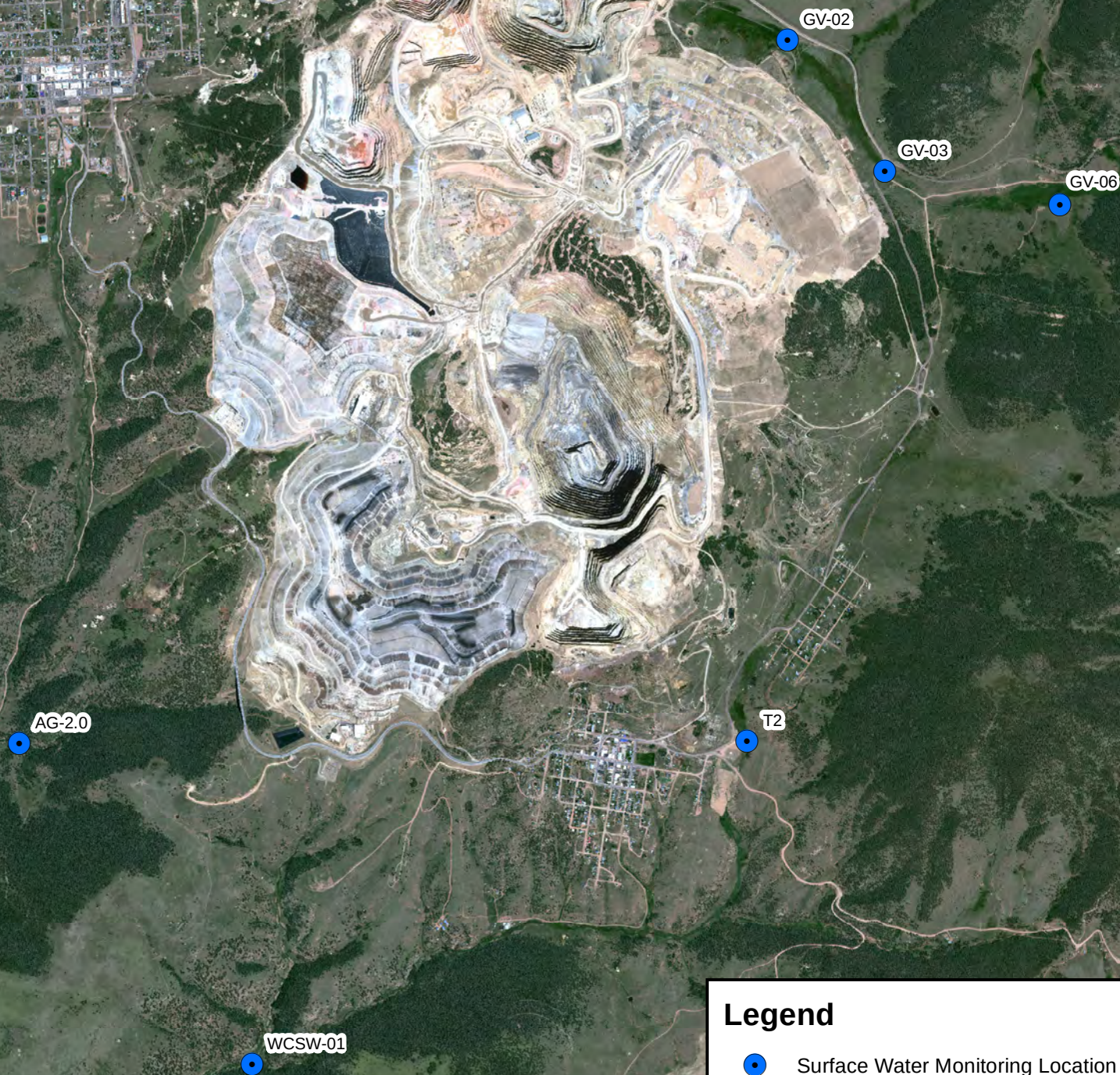


Author: A. Matarrese

Date: 10/2023

1 inch = 2,917 feet





Legend

● Surface Water Monitoring Location

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CC&V Surface Water Compliance
Monitoring Locations



Author: A. Matarrese

Date: 10/2023

1 inch = 2,917 feet

0 2,450 4,900 9,800 Feet

Cripple Creek

PGMW-4

PGMW-3

PGMW-5

PGMW-2

Legend

-  Ground Water
-  Surface Water
-  A13 Boundary

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**CC&V Poverty Gulch
Monitoring Locations**

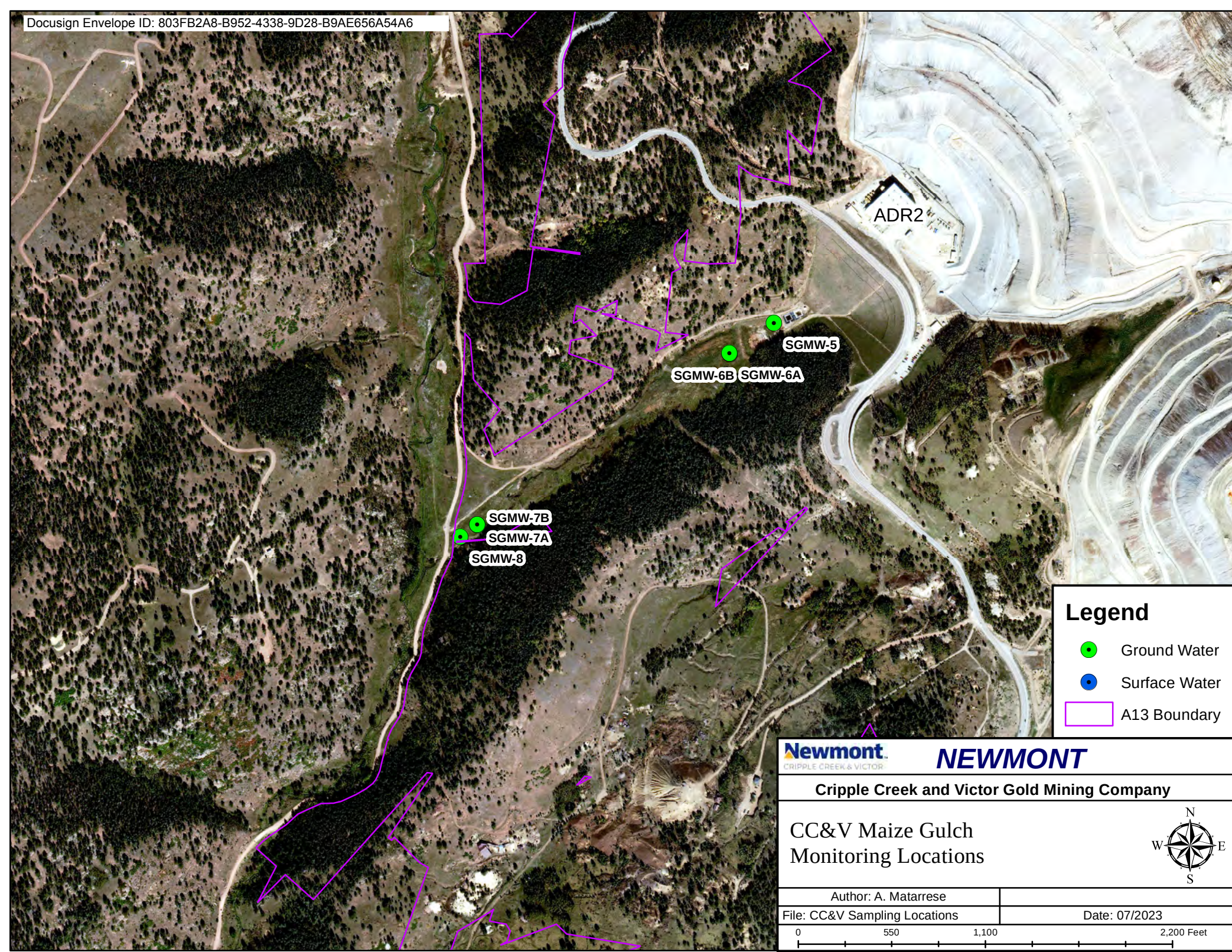


Author: A. Matarrese

File: CC&V Sampling Locations

Date: 07/2023

0 550 1,100 2,200 Feet



Legend

- Ground Water
- Surface Water
- A13 Boundary



Cripple Creek and Victor Gold Mining Company

CC&V Maize Gulch
Monitoring Locations

Author: A. Matarrese

Date: 07/2023

05501,1002,200 Feet





CRMW-5C CRMW-5D
CRMW-5A AG-2.0
CRMW-5B

CRMW-3C CRMW-3B
CRMW-3A

ESPMW-1

ADR1

Legend

- Ground Water
- Surface Water
- A13 Boundary

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CC&V Arequa Gulch
Monitoring Locations

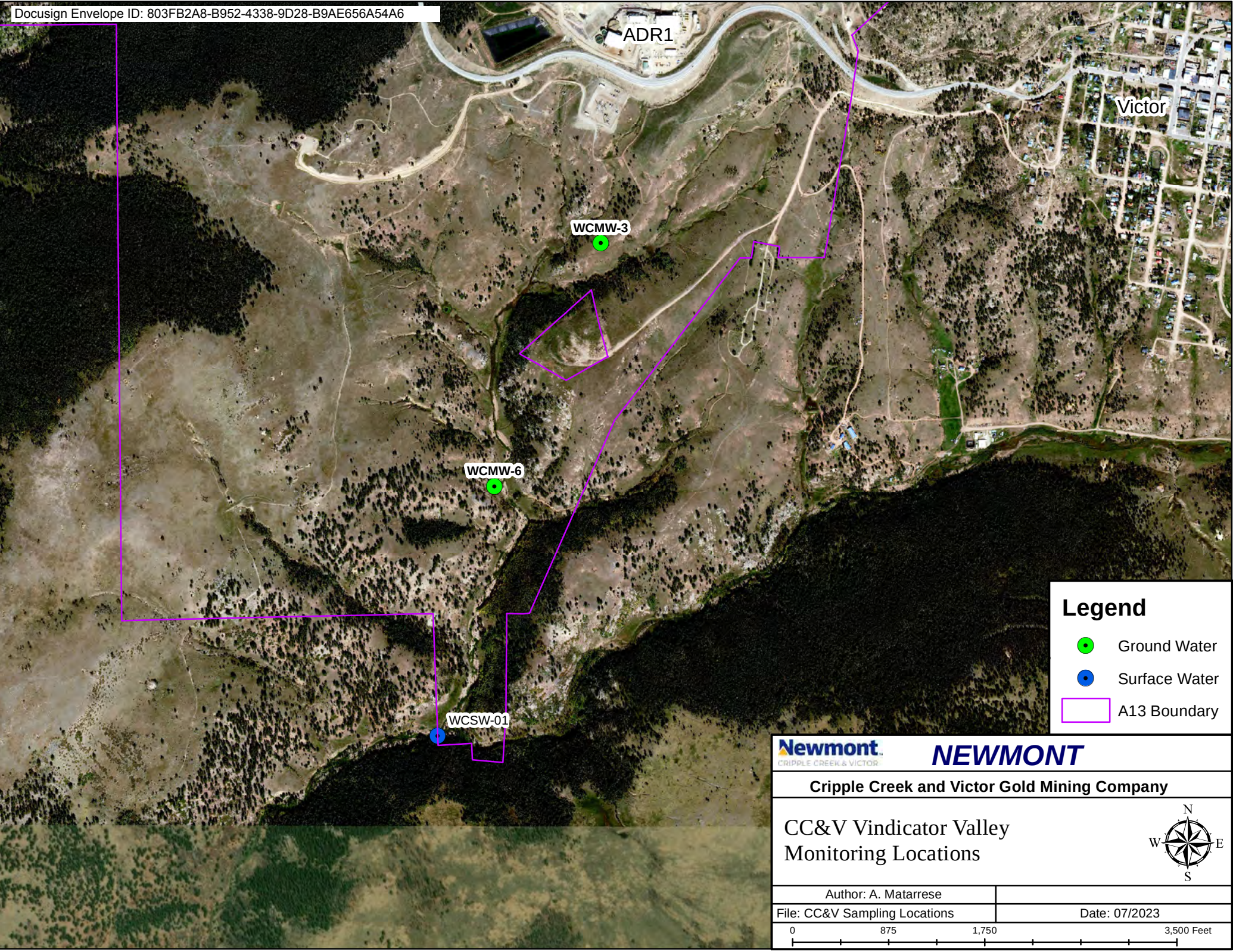


Author: A. Matarrese

File: CC&V Sampling Locations

Date: 07/2023

0 550 1,100 2,200 Feet



Legend

- Ground Water
- Surface Water
- A13 Boundary



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**CC&V Vindicator Valley
Monitoring Locations**



Author: A. Matarrese	
File: CC&V Sampling Locations	Date: 07/2023
0 875 1,750 3,500 Feet	



Legend

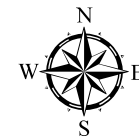
-  Ground Water
-  Surface Water
-  A13 Boundary

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**CC&V Vindicator Valley
Monitoring Locations**



Author: A. Matarrese

File: CC&V Sampling Locations

Date: 07/2023

0 700 1,400 2,800 Feet

GV-02

GV-03

GVMW-8A

GVMW-8B

GVMW-25

GVMW-22A

GVMW-22B

GVMW-26A

GVMW-26B

GV-06

Legend



Surface Water Monitoring Location



Groundwater Monitoring Locations



A13 Boundary



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CC&V Grassy Valley
Monitoring Locations



Author: A. Matarrese

Date: 10/2023

1 inch = 833 feet

0 700 1,400 2,800 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	4/1/2024	Dry	dry at 218' BTOC
PGMW-3	5/30/2024	Sampled	
PGMW-4	4/1/2024	Dry	dry at 39' BTOC
PGMW-5	4/18/2024	Sampled	
Maize Gulch			
SGMW-5	4/1/2024	Dry	dry at 256' BTOC
SGMW-6A	4/30/2024	Dry	dry at 400' BTOC
SGMW-6B	4/30/2024	Sampled	
SGMW-7A	4/1/2024	Dry	dry at 400' BTOC
SGMW-7B	4/1/2024	Dry	dry at 60' BTOC
SGMW-8	6/25/2024	NS-IW	Well was purged dry and insufficient water returned after 24 hours to collect a sample
Arequa Gulch			
CRMW-3A	4/24/2024	Sampled	
CRMW-3B	4/22/2024	Sampled	
CRMW-3C	4/22/2024	Sampled	
CRMW-5A	4/30/2024	NS-IW	Well was purged dry and insufficient water returned after 24 hours to collect a sample
CRMW-5B	4/30/2024	Sampled	
CRMW-5C	4/30/2024	Sampled	
CRMW-5D	4/30/2024	Sampled	
ESPMW-1	6/18/2024	NS-IW	Pump was turned on and no water was purged. Assumed to be insufficient water to purge
AG-2.0	4/30/2024	Sampled	
Wilson Creek			
WCMW-3	4/18/2024	Sampled	
WCMW-6	6/27/2024	Sampled	
WCSW-01	6/27/2024	Dry	No flowing water observed
Vindicator Valley			
VIN-2A	6/17/2024	Sampled	
VIN-2B	5/29/2024	Sampled	
T-2	4/28/2024	Sampled	
Grassy Valley			
GVMW-8A*	4/4/2024, 5/9/2024, & 6/11/2024	Sampled	
GVMW-8B*	4/4/2024, 5/9/2024, & 6/11/2024	Sampled	
GVMW-22A*	4/3/2024, 5/7/2024, & 6/5/2024	Sampled	
GVMW-22B*	4/3/2024, 5/7/2024, & 6/5/2024	Sampled	
GVMW-25*	4/10/2024, 5/7/2024, 6/5/2024	Sampled	
GVMW-26A*	4/3/2024, 5/7/2024, & 6/5/2024	Sampled	
GVMW-26B*	4/3/2024, 5/7/2024, & 6/5/2024	Sampled	
GV-02*	4/16/2024, 5/29/2024, & 6/20/2024	Sampled	Sampled in April, dry in May and June
GV-03*	4/16/2024, 5/29/2024, & 6/20/2024	Sampled	Sampled in April, dry in May and June
GV-06*	4/16/2024, 5/29/2024, & 6/24/2024	Sampled	

Notes:
D - Dry
NS-IW - Not sampled due to insufficient water
* - indicates locations that are monitored monthly

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

ANALYTE	Reg 41 TVS	Site-Wide NPL	UNIT	Well I.D. Sample Date	PGMW-3 5/30/2024	PGMW-5 4/18/2024	SGMW-6B 4/30/2024	CRMW-3A 4/24/2024	CRMW-3B* 4/22/2024	CRMW-3C 4/22/2024	CRMW-5B 4/30/2024	CRMW-5C 4/30/2024	CRMW-5D 4/30/2024	WCMW-3* 4/18/2024	WCMW-6* 6/27/2024	VIN-2A 6/17/2024	VIN-2B* 5/29/2024	GVMW-8A* 6/11/2024	GVMW-8B 6/11/2024	GVMW-22A 6/5/2024	GVMW-22B 6/5/2024	GVMW-25 6/5/2024	GVMW-26A 6/5/2024	GVMW-26B 6/5/2024
Aluminium - Dissolved	5	7	mg/L		12.1	71.7	4.82	<0.080	<0.080	<0.080	<0.080	0.104	0.084	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
Ammonia	NA	NA	mg/L		0.031	<0.030	0.048	<0.030	<0.030	0.051	<0.030	<0.030	<0.030	<0.030	0.049	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Antimony - Dissolved	0.006	NA	mg/L		<0.00100	<0.00100	<0.0100	<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	<0.0100	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00473	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.0831	<0.00100	<0.00100
Barium - Dissolved	2	NA	mg/L		0.0124	0.0091	0.0086	0.0195	0.0097	0.009	0.0125	0.0074	0.0518	0.0618	0.0386	0.0071	0.008	<0.0020	0.0061	0.101	0.0521	0.0106	0.19	0.104
Beryllium - Dissolved	0.004	NA	mg/L		<0.00200	0.0101	0.0985	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.218	<0.00200	<0.00200
Boron - Total	0.75	NA	mg/L		<0.0400	<0.0400	0.0946	0.081	0.0514	0.0748	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400
Cadmium - Dissolved	0.005	0.005	mg/L		0.0022	0.0458	0.0046	<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	<0.0020	0.517	<0.0020	<0.0020
Chloride - Total	250	NA	mg/L		54.8	58.5	134	170	156	242	11.1	5.4	7.13	1.1	2.29	7.41	11.5	65.7	34.4	4.12	11.9	26.8	1.18	1.79
Chromium - Dissolved	0.1	NA	mg/L		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0079	<0.0060	<0.0060	<0.0060	0.016	<0.0060	<0.0060
Cobalt - Dissolved	0.05	NA	mg/L		0.0215	0.201	0.0297	0.0195	0.0184	0.0305	<0.0060	0.0064	<0.0060	<0.0060	<0.0060	0.0125	0.0104	<0.0060	<0.0060	<0.0060	0.0064	0.489	0.0067	<0.0060
Copper - Dissolved	0.2	0.2	mg/L		0.199	1.48	0.036	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0187	<0.0100	<0.0100	0.715	<0.0100	<0.0100
Cyanide - Free	0.2	NA	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cyanide - Total	NA	NA	mg/L		<0.0050	0.0189	<0.0050	0.0129	0.0092	<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
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	<0.0050	<0.0050
Fluoride - Total F	2	2	mg/L		1.68	9.68	10.6	4.01	2.33	2.74	2.75	2.86	2.48	0.742	2.1	0.231	0.151	1.86	2.2	2.28	0.376	6.88	1.89	0.215
Iron - Dissolved	0.3	14	mg/L		<0.100	<0.100	3.85	<0.100	<0.100	0.517	<0.100	<0.100	<0.100	<0.100	0.903	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.293	<0.100	<0.100
Lead - Dissolved	0.05	NA	mg/L		<0.0075	<0.0075	0.0131	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075
Lithium - Dissolved	2.5	NA	mg/L		<0.040	0.103	0.066	0.103	0.069	0.096	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.111	<0.040	<0.040
Manganese - Dissolved	0.05	3	mg/L		2.4	47	10.9	0.0117	1.07	3.39	0.256	<0.0080	<0.0080	0.0337	0.165	0.0904	3.04	0.0245	<0.0080	<0.0080	0.0095	74.5	0.016	0.0088
Mercury - Dissolved	0.002	0.002	mg/L		0.000264	<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	<0.000200
Molybdenum - Dissolved	0.21	NA	mg/L		<0.0080	<0.0080	<0.0080	0.058	<0.0080	<0.0080	<0.0080	<0.0080	0.0103	<0.0080	0.0091	<0.0080	<0.0080	<0.0080	0.0094	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel - Dissolved	0.1	NA	mg/L		0.039	0.358	0.149	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.893	<0.0100	<0.0100
Nitrate as Nitrogen	10	10	mg/L		6.73	0.764	1.19	2.72	2.61	<0.050	0.078	0.19	0.108	<0.050	<0.050	<0.050	<0.050	1.34	2.04	<0.050	0.808	3.14	0.06	0.663
Nitrite + Nitrate as Nitrogen	10	11	mg/L		6.73	0.764	1.19	2.72	2.61	<0.100	<0.100	0.19	0.108	<0.100	<0.100	<0.100	<0.100	1.34	2.04	<0.100	0.808	3.14	<0.100	0.663
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	<0.050	<0.050	<0.050	<0.050	<0.050
pH Field	6.5-8.5	6.0-8.5	pH units		4.12	3.67	5.64	6.81	6.56	6.82	7.46	6.77	6.63	7.65	7.04	7.42	6.56	6.8	6.69	7.78	6.7	4.01	7.91	6.5
Selenium - Dissolved	0.02	0.024	mg/L		0.00166	0.0104	<0.0100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00175	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.0083	<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	<0.0050	<0.0050
Sodium - Dissolved	NA	NA	mg/L		25.6	31.8	73	77.8	58.8	80	9.77	7.13	6.26	10.9	15.6	22.7	33.9	25	25.3	37	13	36.6	30.3	9.74
Sulfate - Total	250	NA	mg/L		634	1,060	1,520	574	660	769	44.3	26.9	29.9	25	56.5	675	744	63.7	106	34.6	39.9	3,360	12	21.4
Thallium - Dissolved	0.002	NA	mg/L		0.000427	<0.00200	<0.00200	<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		988	1,550	2,390	1,140	1,490	1,520	180	115	98	239	205	971	1,050	242	250	198	133	4,100	170	90
Uranium - Dissolved	0.03	NA	mg/L		0.00148	0.0355	0.0197	0.00813	0.0143	0.0287	0.00485	0.000328	0.000109	0.00649	0.000786	0.00327	0.000146	0.00486	0.00237	0.00369	0.0003	0.678	0.0034	<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	0.0057	<0.0050	<0.0050
Zinc - Dissolved	2	2	mg/L		0.284	6.01	1.19	<0.0100	0.0749	0.0329	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.275	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	19.1	<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



Cripple Creek & Victor
Gold Mining Company
100 North 3rd Street
P.O. Box 191
Victor, Colorado 80860

P 719.689.2977
F 719.689.3254
newmont.com

Attachment 1

Laboratory Analytical Reports



Cripple Creek & Victor
Gold Mining Company
100 North 3rd Street
P.O. Box 191
Victor, Colorado 80860

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newmont.com

Groundwater Quarterly Wells



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net

Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0360**

Reported: 07-May-24 12:55

Client Sample ID: **WCMW-3**

Sampled: 18-Apr-24 12:58

Received: 19-Apr-24

Sampled By: PB

SVL Sample ID: **X4D0360-02 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes

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

EPA 200.7	Calcium	60.5	mg/L	0.100	0.069		X418040	NMS	04/30/24 15:53	
EPA 200.7	Magnesium	14.9	mg/L	0.500	0.090		X418040	NMS	04/30/24 15:53	
EPA 200.7	Potassium	1.63	mg/L	0.50	0.18		X418040	NMS	04/30/24 15:53	
SM 2340 B	Hardness (as CaCO3)	209	mg/L	2.31	0.543		N/A		04/30/24 15:53	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X417050	NMS	04/30/24 12:43	
EPA 200.7	Barium	0.0618	mg/L	0.0020	0.0019		X417050	NMS	04/30/24 12:43	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X417050	NMS	04/30/24 12:43	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X417050	NMS	04/30/24 12:43	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X417050	NMS	04/30/24 12:43	
EPA 200.7	Calcium	58.4	mg/L	0.100	0.069		X417050	NMS	04/30/24 12:43	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X417050	NMS	04/30/24 12:43	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X417050	NMS	04/30/24 12:43	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X417050	NMS	04/30/24 12:43	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X417050	NMS	04/30/24 12:43	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X417050	NMS	04/30/24 12:43	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X417050	NMS	04/30/24 12:43	
EPA 200.7	Magnesium	14.1	mg/L	0.500	0.090		X417050	NMS	04/30/24 12:43	
EPA 200.7	Manganese	0.0337	mg/L	0.0080	0.0034		X417050	NMS	04/30/24 12:43	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X417050	NMS	04/30/24 12:43	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X417050	NMS	04/30/24 12:43	
EPA 200.7	Potassium	1.77	mg/L	0.50	0.18		X417050	NMS	04/30/24 12:43	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X417050	NMS	04/30/24 12:43	
EPA 200.7	Sodium	10.9	mg/L	0.50	0.12		X417050	NMS	04/30/24 14:44	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X417050	NMS	04/30/24 12:43	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X417050	NMS	04/30/24 12:43	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X416276	SMU	05/02/24 10:33	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X416276	SMU	05/02/24 10:33	
EPA 200.8	Selenium	0.00175	mg/L	0.00100	0.00024		X416276	SMU	05/02/24 10:33	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X416276	SMU	05/02/24 10:33	
EPA 200.8	Uranium	0.00649	mg/L	0.000100	0.000052		X416276	SMU	05/02/24 10:33	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X418073	MAC	04/30/24 13:25	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X418027	DD	04/29/24 13:31	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X417023	DD	04/23/24 13:51	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X417126	DD	04/25/24 11:26	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X418218	DD	05/02/24 10:20	
SM 2310 B	Acidity to pH 8.3	-220	mg/L as CaCO3	10.0			X417220	MWD	04/26/24 09:44	
SM 2320 B	Total Alkalinity	214	mg/L as CaCO3	1.0			X417119	MWD	04/24/24 10:48	
SM 2320 B	Bicarbonate	214	mg/L as CaCO3	1.0			X417119	MWD	04/24/24 10:48	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X417119	MWD	04/24/24 10:48	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X417119	MWD	04/24/24 10:48	
SM 2540 C	Total Diss. Solids	239	mg/L	10			X417061	TJL	04/25/24 14:00	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X417062	TJL	04/25/24 15:00	
SM 4500 H B	pH @16.2°C	7.9	pH Units				X417119	MWD	04/24/24 10:48	H5

SVL holds the following certifications:

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

Work



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

Newmont - Cripple Creek & Victor	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4D0360
Victor, CO 80860	Reported: 07-May-24 12:55

Client Sample ID: WCMW-3

SVL Sample ID: X4D0360-02 (Ground Water)

Sample Report Page 2 of 2

Sampled: 18-Apr-24 12:58
Received: 19-Apr-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	1.10	mg/L	0.20	0.02		X416246	KAG	04/19/24 18:42	
EPA 300.0	Fluoride	0.742	mg/L	0.100	0.017		X416246	KAG	04/19/24 18:42	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X416246	KAG	04/19/24 18:42	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X416246	KAG	04/19/24 18:42	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X416246	KAG	04/19/24 18:42	
EPA 300.0	Sulfate as SO4	25.0	mg/L	0.30	0.18		X416246	KAG	04/19/24 18:42	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.61 meq/L	Anion Sum: 4.87 meq/L	C/A Balance: -2.79 %	Calculated TDS: 242	TDS/cTDS: 0.99

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

Kathryn Salter

Kathryn Salter
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0360**

Reported: 07-May-24 12:55

Client Sample ID: **PGMW-5**

Sampled: 18-Apr-24 14:24

Received: 19-Apr-24

Sampled By: PB

SVL Sample ID: **X4D0360-03 (Ground Water)**
Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes

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

EPA 200.7	Calcium	134	mg/L	0.100	0.069		X418040	NMS	04/30/24 15:56	
EPA 200.7	Magnesium	60.9	mg/L	0.500	0.090		X418040	NMS	04/30/24 15:56	
EPA 200.7	Potassium	5.36	mg/L	0.50	0.18		X418040	NMS	04/30/24 15:56	
SM 2340 B	Hardness (as CaCO3)	548	mg/L	2.31	0.543		N/A		04/30/24 15:56	

Metals (Dissolved)

EPA 200.7	Aluminum	71.7	mg/L	0.080	0.054		X417050	NMS	04/30/24 12:46	
EPA 200.7	Barium	0.0091	mg/L	0.0020	0.0019		X417050	NMS	04/30/24 12:46	
EPA 200.7	Beryllium	0.0101	mg/L	0.00200	0.00080		X417050	NMS	04/30/24 12:46	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X417050	NMS	04/30/24 12:46	
EPA 200.7	Cadmium	0.0458	mg/L	0.0020	0.0016		X417050	NMS	04/30/24 12:46	
EPA 200.7	Calcium	127	mg/L	0.100	0.069		X417050	NMS	04/30/24 12:46	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X417050	NMS	04/30/24 12:46	
EPA 200.7	Cobalt	0.201	mg/L	0.0060	0.0046		X417050	NMS	04/30/24 12:46	
EPA 200.7	Copper	1.48	mg/L	0.0100	0.0027		X417050	NMS	04/30/24 12:46	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X417050	NMS	04/30/24 12:46	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X417050	NMS	04/30/24 12:46	
EPA 200.7	Lithium	0.103	mg/L	0.040	0.025		X417050	NMS	04/30/24 12:46	
EPA 200.7	Magnesium	51.8	mg/L	0.500	0.090		X417050	NMS	04/30/24 12:46	
EPA 200.7	Manganese	47.0	mg/L	0.0080	0.0034		X417050	NMS	04/30/24 12:46	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X417050	NMS	04/30/24 12:46	
EPA 200.7	Nickel	0.358	mg/L	0.0100	0.0048		X417050	NMS	04/30/24 12:46	
EPA 200.7	Potassium	5.02	mg/L	0.50	0.18		X417050	NMS	04/30/24 12:46	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X417050	NMS	04/30/24 12:46	
EPA 200.7	Sodium	31.8	mg/L	0.50	0.12		X417050	NMS	04/30/24 14:48	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X417050	NMS	04/30/24 12:46	
EPA 200.7	Zinc	6.01	mg/L	0.0100	0.0054		X417050	NMS	04/30/24 12:46	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X416276	DWJ	05/02/24 10:35	D1
EPA 200.8	Arsenic	< 0.0100	mg/L	0.0100	0.00210	10	X416276	SMU	05/02/24 10:55	D1
EPA 200.8	Selenium	0.0104	mg/L	0.0100	0.00240	10	X416276	SMU	05/02/24 10:55	D1
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X416276	SMU	05/02/24 10:55	D1
EPA 200.8	Uranium	0.0355	mg/L	0.00100	0.000520	10	X416276	SMU	05/02/24 10:55	D1

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X418073	MAC	04/30/24 13:28	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X418027	DD	04/29/24 13:33	
EPA 335.4	Cyanide (total)	0.0189	mg/L	0.0050	0.0038		X417022	DD	04/23/24 16:44	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X417126	DD	04/25/24 11:27	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X418218	DD	05/02/24 10:22	
SM 2310 B	Acidity to pH 8.3	553	mg/L as CaCO3	10.0			X417220	MWD	04/26/24 09:44	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X417119	MWD	04/24/24 10:55	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X417119	MWD	04/24/24 10:55	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X417119	MWD	04/24/24 10:55	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X417119	MWD	04/24/24 10:55	
SM 2540 C	Total Diss. Solids	1550	mg/L	10			X417061	TJL	04/25/24 14:00	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X417062	TJL	04/25/24 15:00	
SM 4500 H B	pH @16.5°C	3.8	pH Units				X417119	MWD	04/24/24 10:55	H5

SVL holds the following certifications:

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

Work

Page 6 of 13



One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
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Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4D0360 Reported: 07-May-24 12:55

Client Sample ID: **PGMW-5**
SVL Sample ID: **X4D0360-03 (Ground Water)**

Sampled: 18-Apr-24 14:24
Received: 19-Apr-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	58.5	mg/L	10.0	1.10	50	X416246	KAG	04/19/24 19:19	D2
EPA 300.0	Fluoride	9.68	mg/L	5.00	0.850	50	X416246	KAG	04/19/24 19:19	D2
EPA 300.0	Nitrate as N	0.764	mg/L	0.050	0.013		X416246	KAG	04/19/24 19:01	
EPA 300.0	Nitrate+Nitrite as N	0.764	mg/L	0.100	0.044		X416246	KAG	04/19/24 19:01	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X416246	RS	04/19/24 19:01	
EPA 300.0	Sulfate as SO4	1060	mg/L	15.0	9.00	50	X416246	KAG	04/19/24 19:19	D2

Cation/Anion Balance and TDS Ratios										
Cation Sum: 23.2 meq/L		Anion Sum: 24.3 meq/L		C/A Balance: -2.38 %		Calculated TDS: 1355		TDS/cTDS: 1.14		

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



Kathryn Salter
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0360**

Reported: 07-May-24 12:55

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	X418040	30-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X418040	30-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X418040	30-Apr-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X417050	30-Apr-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X417050	30-Apr-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X417050	30-Apr-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X417050	30-Apr-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X417050	30-Apr-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X417050	30-Apr-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X417050	30-Apr-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X417050	30-Apr-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X417050	30-Apr-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X417050	30-Apr-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X417050	30-Apr-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X417050	30-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X417050	30-Apr-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X417050	30-Apr-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X417050	30-Apr-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X417050	30-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X417050	30-Apr-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X417050	30-Apr-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X417050	30-Apr-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X417050	30-Apr-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X417050	30-Apr-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X416276	02-May-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X416276	02-May-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X416276	02-May-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X416276	02-May-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X416276	02-May-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X418073	30-Apr-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X418027	29-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X417022	23-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X417023	23-Apr-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X417126	25-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X418218	02-May-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X417220	26-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X417119	24-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X417119	24-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X417119	24-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X417119	24-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X417061	25-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X417062	25-Apr-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X416246	19-Apr-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X416246	19-Apr-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X416246	19-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X416246	19-Apr-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X416246	19-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X416246	19-Apr-24	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net
Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0360**

Reported: 07-May-24 12:55

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	20.1	20.0	100	85 - 115	X418040	30-Apr-24	
EPA 200.7	Magnesium	mg/L	20.4	20.0	102	85 - 115	X418040	30-Apr-24	
EPA 200.7	Potassium	mg/L	20.8	20.0	104	85 - 115	X418040	30-Apr-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.976	1.00	97.6	85 - 115	X417050	30-Apr-24	
EPA 200.7	Barium	mg/L	1.00	1.00	100	85 - 115	X417050	30-Apr-24	
EPA 200.7	Beryllium	mg/L	0.983	1.00	98.3	85 - 115	X417050	30-Apr-24	
EPA 200.7	Boron	mg/L	0.990	1.00	99.0	85 - 115	X417050	30-Apr-24	
EPA 200.7	Cadmium	mg/L	0.969	1.00	96.9	85 - 115	X417050	30-Apr-24	
EPA 200.7	Calcium	mg/L	19.3	20.0	96.4	85 - 115	X417050	30-Apr-24	
EPA 200.7	Chromium	mg/L	0.984	1.00	98.4	85 - 115	X417050	30-Apr-24	
EPA 200.7	Cobalt	mg/L	0.951	1.00	95.1	85 - 115	X417050	30-Apr-24	
EPA 200.7	Copper	mg/L	0.980	1.00	98.0	85 - 115	X417050	30-Apr-24	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X417050	30-Apr-24	
EPA 200.7	Lead	mg/L	0.960	1.00	96.0	85 - 115	X417050	30-Apr-24	
EPA 200.7	Lithium	mg/L	0.954	1.00	95.4	85 - 115	X417050	30-Apr-24	
EPA 200.7	Magnesium	mg/L	19.4	20.0	96.9	85 - 115	X417050	30-Apr-24	
EPA 200.7	Manganese	mg/L	0.978	1.00	97.8	85 - 115	X417050	30-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.984	1.00	98.4	85 - 115	X417050	30-Apr-24	
EPA 200.7	Nickel	mg/L	0.946	1.00	94.6	85 - 115	X417050	30-Apr-24	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.4	85 - 115	X417050	30-Apr-24	
EPA 200.7	Silver	mg/L	0.0503	0.0500	101	85 - 115	X417050	30-Apr-24	
EPA 200.7	Sodium	mg/L	18.4	19.0	96.9	85 - 115	X417050	30-Apr-24	
EPA 200.7	Vanadium	mg/L	0.985	1.00	98.5	85 - 115	X417050	30-Apr-24	
EPA 200.7	Zinc	mg/L	0.966	1.00	96.6	85 - 115	X417050	30-Apr-24	
EPA 200.8	Antimony	mg/L	0.0240	0.0250	96.0	85 - 115	X416276	02-May-24	
EPA 200.8	Arsenic	mg/L	0.0239	0.0250	95.7	85 - 115	X416276	02-May-24	
EPA 200.8	Selenium	mg/L	0.0245	0.0250	98.0	85 - 115	X416276	02-May-24	
EPA 200.8	Thallium	mg/L	0.0244	0.0250	97.5	85 - 115	X416276	02-May-24	
EPA 200.8	Uranium	mg/L	0.0238	0.0250	95.2	85 - 115	X416276	02-May-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00199	0.00200	99.6	85 - 115	X418073	30-Apr-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.102	0.100	102	90 - 110	X418027	29-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.100	104	90 - 110	X417023	23-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.100	102	90 - 110	X417022	23-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.01	1.00	101	90 - 110	X417126	25-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X418218	02-May-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	893	884	101	95.4 - 104	X417220	26-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.2	9.93	103	96.4 - 105	X417119	24-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	96.4 - 105	X417119	24-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X417062	25-Apr-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.02	3.00	101	90 - 110	X416246	19-Apr-24	
EPA 300.0	Fluoride	mg/L	1.94	2.00	97.1	90 - 110	X416246	19-Apr-24	
EPA 300.0	Nitrate as N	mg/L	2.00	2.00	100	90 - 110	X416246	19-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.48	4.50	99.6	90 - 110	X416246	19-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.48	2.50	99.2	90 - 110	X416246	19-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X416246	19-Apr-24	

SVL holds the following certifications:

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

Work

Page 9 of 13

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0360**

Reported: 07-May-24 12:55

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 CaCO ₃	<10.0	<10.0	UDL	20	X417220 - X4D0331-01	26-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0	<1.0	<RL	20	X417119 - X4D0360-01	24-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0	<1.0	<RL	20	X417119 - X4D0360-01	24-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X417119 - X4D0360-01	24-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X417119 - X4D0360-01	24-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	248	239	3.7	10	X417061 - X4D0360-02	25-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X417062 - X4D0360-02	25-Apr-24	
SM 4500 H B	pH @16.4°C	pH Units	5.4	5.5	0.4	20	X417119 - X4D0360-01	24-Apr-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	91.6	71.9	20.0	99	70 - 130	X418040 - X4D0334-14	30-Apr-24	
EPA 200.7	Calcium	mg/L	85.1	63.3	20.0	109	70 - 130	X418040 - X4D0417-01	30-Apr-24	
EPA 200.7	Magnesium	mg/L	24.2	3.59	20.0	103	70 - 130	X418040 - X4D0334-14	30-Apr-24	
EPA 200.7	Magnesium	mg/L	28.0	6.41	20.0	108	70 - 130	X418040 - X4D0417-01	30-Apr-24	
EPA 200.7	Potassium	mg/L	25.5	4.64	20.0	104	70 - 130	X418040 - X4D0334-14	30-Apr-24	
EPA 200.7	Potassium	mg/L	38.1	16.0	20.0	110	70 - 130	X418040 - X4D0417-01	30-Apr-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.942	<0.080	1.00	94.2	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Aluminum	mg/L	1.19	0.220	1.00	97.1	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Barium	mg/L	0.996	0.0187	1.00	97.7	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Barium	mg/L	0.963	0.0047	1.00	95.9	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Beryllium	mg/L	0.967	<0.00200	1.00	96.7	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Beryllium	mg/L	1.03	<0.00200	1.00	103	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	99.5	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Boron	mg/L	1.06	<0.0400	1.00	103	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Cadmium	mg/L	0.927	<0.0020	1.00	92.7	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Cadmium	mg/L	0.969	<0.0020	1.00	96.9	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Calcium	mg/L	62.9	45.1	20.0	89.0	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Calcium	mg/L	75.7	57.1	20.0	93.0	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Chromium	mg/L	0.955	<0.0060	1.00	95.5	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Chromium	mg/L	0.986	<0.0060	1.00	98.6	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Cobalt	mg/L	0.907	<0.0060	1.00	90.7	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Cobalt	mg/L	0.933	<0.0060	1.00	93.3	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Copper	mg/L	0.950	<0.0100	1.00	95.0	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Copper	mg/L	0.962	<0.0100	1.00	95.5	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Iron	mg/L	9.97	<0.100	10.0	99.7	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Iron	mg/L	10.3	<0.100	10.0	103	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Lead	mg/L	0.911	<0.0075	1.00	91.1	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Lead	mg/L	0.956	<0.0075	1.00	95.6	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Lithium	mg/L	0.930	<0.040	1.00	93.0	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Lithium	mg/L	0.971	<0.040	1.00	97.1	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Magnesium	mg/L	22.7	3.93	20.0	93.7	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Magnesium	mg/L	24.0	4.69	20.0	96.5	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Manganese	mg/L	0.949	0.0080	1.00	94.1	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Manganese	mg/L	1.00	0.0203	1.00	97.9	70 - 130	X417050 - X4D0363-06	30-Apr-24	

SVL holds the following certifications:

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

Work Page 10 of 13


Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0360**

Reported: 07-May-24 12:55

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	Molybdenum	mg/L	0.955	0.0231	1.00	93.2	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.980	<0.0080	1.00	97.2	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Nickel	mg/L	0.906	<0.0100	1.00	89.8	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Nickel	mg/L	0.939	<0.0100	1.00	93.0	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Potassium	mg/L	22.1	2.68	20.0	96.9	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Potassium	mg/L	22.7	2.88	20.0	99.1	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Silver	mg/L	0.0486	<0.0050	0.0500	97.2	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Silver	mg/L	0.0500	<0.0050	0.0500	99.9	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Sodium	mg/L	55.3	38.3	19.0	89.7	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Sodium	mg/L	38.9	20.5	19.0	97.1	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Vanadium	mg/L	0.965	<0.0050	1.00	96.5	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Vanadium	mg/L	0.993	<0.0050	1.00	99.3	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Zinc	mg/L	0.931	<0.0100	1.00	93.1	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Zinc	mg/L	1.03	0.0668	1.00	96.7	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.8	Antimony	mg/L	0.0331	0.00914	0.0250	96.0	70 - 130	X416276 - X4D0347-01	02-May-24	
EPA 200.8	Antimony	mg/L	0.0256	<0.0100	0.0250	103	70 - 130	X416276 - X4D0360-03	02-May-24	D1
EPA 200.8	Arsenic	mg/L	0.0514	0.0254	0.0250	104	70 - 130	X416276 - X4D0347-01	02-May-24	
EPA 200.8	Arsenic	mg/L	0.0246	<0.0100	0.0250	98.4	70 - 130	X416276 - X4D0360-03	02-May-24	D1
EPA 200.8	Selenium	mg/L	0.0247	<0.00100	0.0250	99.0	70 - 130	X416276 - X4D0347-01	02-May-24	
EPA 200.8	Selenium	mg/L	0.0320	0.0104	0.0250	86.4	70 - 130	X416276 - X4D0360-03	02-May-24	D1
EPA 200.8	Thallium	mg/L	0.0237	<0.000200	0.0250	94.9	70 - 130	X416276 - X4D0347-01	02-May-24	
EPA 200.8	Thallium	mg/L	0.0251	<0.000200	0.0250	101	70 - 130	X416276 - X4D0360-03	02-May-24	D1
EPA 200.8	Uranium	mg/L	0.0240	0.000578	0.0250	93.6	70 - 130	X416276 - X4D0347-01	02-May-24	
EPA 200.8	Uranium	mg/L	0.0602	0.0355	0.0250	98.8	70 - 130	X416276 - X4D0360-03	02-May-24	D1
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00220	<0.000200	0.00200	102	70 - 130	X418073 - X4D0336-01	30-Apr-24	
EPA 245.1	Mercury	mg/L	0.00201	<0.000200	0.00200	100	70 - 130	X418073 - X4D0360-02	30-Apr-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	<0.0050	0.100	97.0	79 - 121	X418027 - X4D0346-13	29-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.109	<0.0050	0.100	109	90 - 110	X417023 - X4D0348-01	23-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.106	<0.0050	0.100	106	90 - 110	X417022 - X4D0346-13	23-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.105	<0.0050	0.100	105	90 - 110	X417022 - X4D0346-12	23-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	99.4	90 - 110	X417126 - X4D0360-01	25-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.07	<0.030	1.00	107	90 - 110	X417126 - X4D0360-02	25-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.107	<0.0050	0.100	107	82 - 118	X418218 - X4D0086-05	02-May-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	12.5	9.70	3.00	92.9	90 - 110	X416246 - X4D0358-10	23-Apr-24	D2
EPA 300.0	Chloride	mg/L	17.6	14.5	3.00	104	90 - 110	X416246 - X4D0358-15	23-Apr-24	D2
EPA 300.0	Fluoride	mg/L	1.94	<0.100	2.00	93.1	90 - 110	X416246 - X4D0358-10	19-Apr-24	
EPA 300.0	Fluoride	mg/L	1.92	<0.100	2.00	92.8	90 - 110	X416246 - X4D0358-15	19-Apr-24	
EPA 300.0	Nitrate as N	mg/L	2.06	0.116	2.00	97.0	90 - 110	X416246 - X4D0358-10	19-Apr-24	
EPA 300.0	Nitrate as N	mg/L	3.74	1.72	2.00	101	90 - 110	X416246 - X4D0358-15	19-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.04	0.121	4.00	97.9	90 - 110	X416246 - X4D0358-10	19-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.75	1.72	4.00	101	90 - 110	X416246 - X4D0358-15	19-Apr-24	
EPA 300.0	Nitrite as N	mg/L	1.98	<0.050	2.00	99.0	90 - 110	X416246 - X4D0358-10	19-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.01	<0.050	2.00	100	90 - 110	X416246 - X4D0358-15	19-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	20.4	10.1	10.0	103	90 - 110	X416246 - X4D0358-10	19-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	21.9	11.7	10.0	103	90 - 110	X416246 - X4D0358-15	19-Apr-24	

SVL holds the following certifications:

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

Work

Page 11 of 13



Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0360**

Reported: 07-May-24 12:55

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	92.3	91.6	20.0	0.7	20	102	X418040 - X4D0334-14	
EPA 200.7	Magnesium	mg/L	24.3	24.2	20.0	0.2	20	103	X418040 - X4D0334-14	
EPA 200.7	Potassium	mg/L	25.8	25.5	20.0	0.8	20	106	X418040 - X4D0334-14	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.975	0.942	1.00	3.4	20	97.5	X417050 - X4D0310-01	
EPA 200.7	Barium	mg/L	1.01	0.996	1.00	1.3	20	99.0	X417050 - X4D0310-01	
EPA 200.7	Beryllium	mg/L	0.984	0.967	1.00	1.8	20	98.4	X417050 - X4D0310-01	
EPA 200.7	Boron	mg/L	1.05	1.03	1.00	2.0	20	102	X417050 - X4D0310-01	
EPA 200.7	Cadmium	mg/L	0.955	0.927	1.00	3.0	20	95.5	X417050 - X4D0310-01	
EPA 200.7	Calcium	mg/L	64.0	62.9	20.0	1.7	20	94.5	X417050 - X4D0310-01	
EPA 200.7	Chromium	mg/L	0.985	0.955	1.00	3.1	20	98.5	X417050 - X4D0310-01	
EPA 200.7	Cobalt	mg/L	0.933	0.907	1.00	2.8	20	93.3	X417050 - X4D0310-01	
EPA 200.7	Copper	mg/L	0.984	0.950	1.00	3.6	20	98.4	X417050 - X4D0310-01	
EPA 200.7	Iron	mg/L	10.2	9.97	10.0	2.2	20	102	X417050 - X4D0310-01	
EPA 200.7	Lead	mg/L	0.934	0.911	1.00	2.5	20	93.4	X417050 - X4D0310-01	
EPA 200.7	Lithium	mg/L	0.949	0.930	1.00	2.1	20	94.9	X417050 - X4D0310-01	
EPA 200.7	Magnesium	mg/L	23.1	22.7	20.0	2.0	20	95.9	X417050 - X4D0310-01	
EPA 200.7	Manganese	mg/L	0.968	0.949	1.00	2.0	20	96.0	X417050 - X4D0310-01	
EPA 200.7	Molybdenum	mg/L	0.983	0.955	1.00	2.8	20	95.9	X417050 - X4D0310-01	
EPA 200.7	Nickel	mg/L	0.934	0.906	1.00	3.1	20	92.7	X417050 - X4D0310-01	
EPA 200.7	Potassium	mg/L	22.4	22.1	20.0	1.5	20	98.6	X417050 - X4D0310-01	
EPA 200.7	Silver	mg/L	0.0502	0.0486	0.0500	3.3	20	100	X417050 - X4D0310-01	
EPA 200.7	Sodium	mg/L	56.1	55.3	19.0	1.5	20	94.0	X417050 - X4D0310-01	
EPA 200.7	Vanadium	mg/L	0.991	0.965	1.00	2.7	20	99.1	X417050 - X4D0310-01	
EPA 200.7	Zinc	mg/L	0.957	0.931	1.00	2.8	20	95.7	X417050 - X4D0310-01	
EPA 200.8	Antimony	mg/L	0.0334	0.0331	0.0250	0.7	20	97.0	X416276 - X4D0347-01	
EPA 200.8	Arsenic	mg/L	0.0519	0.0514	0.0250	1.0	20	106	X416276 - X4D0347-01	
EPA 200.8	Selenium	mg/L	0.0253	0.0247	0.0250	2.1	20	101	X416276 - X4D0347-01	
EPA 200.8	Thallium	mg/L	0.0240	0.0237	0.0250	1.4	20	96.2	X416276 - X4D0347-01	
EPA 200.8	Uranium	mg/L	0.0240	0.0240	0.0250	0.1	20	93.7	X416276 - X4D0347-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00217	0.00220	0.00200	1.1	20	101	X418073 - X4D0336-01	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.105	0.0970	0.100	7.9	11	105	X418027 - X4D0346-13	
EPA 335.4	Cyanide (total)	mg/L	0.106	0.106	0.100	0.4	20	106	X417022 - X4D0346-13	
EPA 335.4	Cyanide (total)	mg/L	0.110	0.109	0.100	0.2	20	110	X417023 - X4D0348-01	
EPA 350.1	Ammonia as N	mg/L	1.07	1.01	1.00	5.5	20	105	X417126 - X4D0360-01	
OIA 1677	Cyanide (WAD)	mg/L	0.109	0.107	0.100	1.9	11	109	X418218 - X4D0086-05	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	12.4	12.5	3.00	0.9	20	89.2	X416246 - X4D0358-10	D2,M4
EPA 300.0	Fluoride	mg/L	1.96	1.94	2.00	1.2	20	94.2	X416246 - X4D0358-10	
EPA 300.0	Nitrate as N	mg/L	2.10	2.06	2.00	2.3	20	99.4	X416246 - X4D0358-10	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.14	4.04	4.00	2.6	20	101	X416246 - X4D0358-10	
EPA 300.0	Nitrite as N	mg/L	2.04	1.98	2.00	2.9	20	102	X416246 - X4D0358-10	
EPA 300.0	Sulfate as SO4	mg/L	20.5	20.4	10.0	0.5	20	104	X416246 - X4D0358-10	



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Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0360**

Reported: 07-May-24 12:55

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
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


Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0400**

Reported: 08-May-24 09:18

Client Sample ID: **CRMW-3B**

Sampled: 22-Apr-24 15:40

Received: 23-Apr-24

Sampled By: PB

SVL Sample ID: **X4D0400-02 (Ground Water)**
Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes

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

EPA 200.7	Calcium	251	mg/L	0.100	0.069		X418189	NMS	05/03/24 14:18	
EPA 200.7	Magnesium	63.3	mg/L	0.500	0.090		X418189	NMS	05/03/24 14:18	
EPA 200.7	Potassium	7.21	mg/L	0.50	0.18		X418189	NMS	05/03/24 14:18	
SM 2340 B	Hardness (as CaCO3)	886	mg/L	2.31	0.543		N/A		04/29/24 15:03	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X417213	NMS	04/29/24 15:03	
EPA 200.7	Barium	0.0097	mg/L	0.0020	0.0019		X417213	NMS	04/29/24 15:03	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X417213	NMS	04/29/24 15:03	
EPA 200.7	Boron	0.0514	mg/L	0.0400	0.0078		X417213	NMS	04/29/24 15:03	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X417213	NMS	04/29/24 15:03	
EPA 200.7	Calcium	234	mg/L	0.100	0.069		X417213	NMS	04/29/24 15:03	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X417213	NMS	04/29/24 15:03	
EPA 200.7	Cobalt	0.0184	mg/L	0.0060	0.0046		X417213	NMS	04/29/24 15:03	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X417213	NMS	04/29/24 15:03	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X417213	NMS	04/29/24 15:03	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X417213	NMS	04/29/24 15:03	
EPA 200.7	Lithium	0.069	mg/L	0.040	0.025		X417213	NMS	04/29/24 15:03	
EPA 200.7	Magnesium	61.4	mg/L	0.500	0.090		X417213	NMS	04/29/24 15:03	
EPA 200.7	Manganese	1.07	mg/L	0.0080	0.0034		X417213	NMS	04/29/24 15:03	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X417213	NMS	04/29/24 15:03	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X417213	NMS	04/29/24 15:03	
EPA 200.7	Potassium	7.16	mg/L	0.50	0.18		X417213	NMS	04/29/24 15:03	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X417213	NMS	04/29/24 15:03	
EPA 200.7	Sodium	58.8	mg/L	0.50	0.12		X417213	NMS	04/29/24 15:03	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X417213	NMS	04/29/24 15:03	
EPA 200.7	Zinc	0.0749	mg/L	0.0100	0.0054		X417213	NMS	04/29/24 15:03	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X418003	SMU	05/06/24 20:18	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X418003	SMU	05/06/24 20:18	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X418003	SMU	05/06/24 20:18	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X418003	SMU	05/06/24 20:18	
EPA 200.8	Uranium	0.0143	mg/L	0.000100	0.000052		X418003	SMU	05/06/24 20:18	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X418260	MAC	05/07/24 12:50	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X418027	DD	04/29/24 13:35	
EPA 335.4	Cyanide (total)	0.0092	mg/L	0.0050	0.0038		X418022	DD	04/30/24 09:14	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X417116	DD	04/24/24 13:39	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X418218	DD	05/02/24 10:26	
SM 2310 B	Acidity to pH 8.3	-118	mg/L as CaCO3	10.0			X417220	MWD	04/26/24 09:44	
SM 2320 B	Total Alkalinity	116	mg/L as CaCO3	1.0			X417119	MWD	04/24/24 11:00	
SM 2320 B	Bicarbonate	116	mg/L as CaCO3	1.0			X417119	MWD	04/24/24 11:00	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X417119	MWD	04/24/24 11:00	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X417119	MWD	04/24/24 11:00	
SM 2540 C	Total Diss. Solids	1490	mg/L	10			X417169	TJL	04/26/24 14:35	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X417170	TJL	04/26/24 15:20	
SM 4500 H B	pH @16.8°C	6.8	pH Units				X417119	MWD	04/24/24 11:00	H5

SVL holds the following certifications:

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

Work



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Newmont - Cripple Creek & Victor					Project Name: Cripple Creek/Victor Water and Soil 2024				
Post Office Box 191					Work Order: X4D0400				
Victor, CO 80860					Reported: 08-May-24 09:18				

Client Sample ID: CRMW-3B

SVL Sample ID: X4D0400-02 (Ground Water)

Sample Report Page 2 of 2

Sampled: 22-Apr-24 15:40
Received: 23-Apr-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	156	mg/L	10.0	1.10	50	X417078	RS	04/23/24 19:56	D2,M4
EPA 300.0	Fluoride	2.33	mg/L	0.100	0.017		X417078	RS	04/23/24 19:38	M2
EPA 300.0	Nitrate as N	2.61	mg/L	0.050	0.013		X417078	RS	04/23/24 19:38	
EPA 300.0	Nitrate+Nitrite as N	2.61	mg/L	0.100	0.044		X417078	RS	04/23/24 19:38	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X417078	RS	04/23/24 19:38	
EPA 300.0	Sulfate as SO4	660	mg/L	15.0	9.00	50	X417078	RS	04/23/24 19:56	D2,M4

Cation/Anion Balance and TDS Ratios

Cation Sum: 19.5 meq/L	Anion Sum: 20.8 meq/L	C/A Balance: -3.07 %	Calculated TDS: 1270	TDS/cTDS: 1.17

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

Kathryn Salter

Kathryn Salter
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0400**

Reported: 08-May-24 09:18

Client Sample ID: **CRMW-3C**

Sampled: 22-Apr-24 15:44

Received: 23-Apr-24

Sampled By: PB

SVL Sample ID: **X4D0400-03 (Ground Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes

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

EPA 200.7	Calcium	337	mg/L	0.100	0.069		X418189	NMS	05/03/24 14:22	
EPA 200.7	Magnesium	59.0	mg/L	0.500	0.090		X418189	NMS	05/03/24 14:22	
EPA 200.7	Potassium	7.67	mg/L	0.50	0.18		X418189	NMS	05/03/24 14:22	
SM 2340 B	Hardness (as CaCO3)	1080	mg/L	2.31	0.543		N/A		04/29/24 15:07	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X417213	NMS	04/29/24 15:07	
EPA 200.7	Barium	0.0090	mg/L	0.0020	0.0019		X417213	NMS	04/29/24 15:07	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X417213	NMS	04/29/24 15:07	
EPA 200.7	Boron	0.0748	mg/L	0.0400	0.0078		X417213	NMS	04/29/24 15:07	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X417213	NMS	04/29/24 15:07	
EPA 200.7	Calcium	313	mg/L	0.100	0.069		X417213	NMS	04/29/24 15:07	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X417213	NMS	04/29/24 15:07	
EPA 200.7	Cobalt	0.0305	mg/L	0.0060	0.0046		X417213	NMS	04/29/24 15:07	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X417213	NMS	04/29/24 15:07	
EPA 200.7	Iron	0.517	mg/L	0.100	0.056		X417213	NMS	04/29/24 15:07	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X417213	NMS	04/29/24 15:07	
EPA 200.7	Lithium	0.096	mg/L	0.040	0.025		X417213	NMS	04/29/24 15:07	
EPA 200.7	Magnesium	56.5	mg/L	0.500	0.090		X417213	NMS	04/29/24 15:07	
EPA 200.7	Manganese	3.39	mg/L	0.0080	0.0034		X417213	NMS	04/29/24 15:07	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X417213	NMS	04/29/24 15:07	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X417213	NMS	04/29/24 15:07	
EPA 200.7	Potassium	7.56	mg/L	0.50	0.18		X417213	NMS	04/29/24 15:07	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X417213	NMS	04/29/24 15:07	
EPA 200.7	Sodium	80.0	mg/L	0.50	0.12		X417213	NMS	04/29/24 15:07	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X417213	NMS	04/29/24 15:07	
EPA 200.7	Zinc	0.0329	mg/L	0.0100	0.0054		X417213	NMS	04/29/24 15:07	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X418003	SMU	05/06/24 20:21	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X418003	SMU	05/06/24 20:21	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X418003	SMU	05/06/24 20:21	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X418003	SMU	05/06/24 20:21	
EPA 200.8	Uranium	0.0287	mg/L	0.000100	0.000052		X418003	SMU	05/06/24 20:21	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X418260	MAC	05/07/24 12:53	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X418027	DD	04/29/24 13:37	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X418022	DD	04/30/24 09:17	
EPA 350.1	Ammonia as N	0.051	mg/L	0.030	0.013		X417116	DD	04/24/24 13:41	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X418218	DD	05/02/24 10:28	
SM 2310 B	Acidity to pH 8.3	-165	mg/L as CaCO3	10.0			X417220	MWD	04/26/24 09:44	
SM 2320 B	Total Alkalinity	165	mg/L as CaCO3	1.0			X417119	MWD	04/24/24 11:06	
SM 2320 B	Bicarbonate	165	mg/L as CaCO3	1.0			X417119	MWD	04/24/24 11:06	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X417119	MWD	04/24/24 11:06	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X417119	MWD	04/24/24 11:06	
SM 2540 C	Total Diss. Solids	1520	mg/L	40			X417169	TJL	04/26/24 14:35	D2
SM 2540 D	Total Susp. Solids	7.0	mg/L	5.0			X417170	TJL	04/26/24 15:20	
SM 4500 H B	pH @17.1°C	7.0	pH Units				X417119	MWD	04/24/24 11:06	H5

SVL holds the following certifications:

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

Work



One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
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Newmont - Cripple Creek & Victor	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4D0400
Victor, CO 80860	Reported: 08-May-24 09:18

Client Sample ID: CRMW-3C
SVL Sample ID: X4D0400-03 (Ground Water)

Sampled: 22-Apr-24 15:44
Received: 23-Apr-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	242	mg/L	10.0	1.10	50	X417078	RS	04/23/24 22:20	D2
EPA 300.0	Fluoride	2.74	mg/L	0.100	0.017		X417078	RS	04/23/24 22:02	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X417078	RS	04/23/24 22:02	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X417078	RS	04/23/24 22:02	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X417078	RS	04/23/24 22:02	
EPA 300.0	Sulfate as SO4	769	mg/L	15.0	9.00	50	X417078	RS	04/23/24 22:20	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 24.1 meq/L	Anion Sum: 26.3 meq/L	C/A Balance: -4.31 %	Calculated TDS: 1583	TDS/cTDS: 0.96

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

Kathryn Salter

Kathryn Salter
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0400**

Reported: 08-May-24 09:18

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	X418185	06-May-24	
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X418185	06-May-24	
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X418185	06-May-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X418189	03-May-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X418189	03-May-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X418189	03-May-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X417213	29-Apr-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X417213	29-Apr-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X417213	29-Apr-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X417213	29-Apr-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X417213	29-Apr-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X417213	29-Apr-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X417213	29-Apr-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X417213	29-Apr-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X417213	29-Apr-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X417213	29-Apr-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X417213	29-Apr-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X417213	29-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X417213	29-Apr-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X417213	29-Apr-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X417213	29-Apr-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X417213	29-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X417213	29-Apr-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X417213	29-Apr-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X417213	29-Apr-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X417213	29-Apr-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X417213	29-Apr-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X418260	07-May-24	
Metals (Potentially Dissolved)								
EPA 200.8	Aluminum	mg/L	<0.0100	0.0040	0.0100	X418010	29-Apr-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X418010	29-Apr-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X418010	29-Apr-24	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X418010	29-Apr-24	
EPA 200.8	Zinc	mg/L	<0.0040	0.0020	0.0040	X418010	29-Apr-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X418027	29-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X418022	30-Apr-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X417116	24-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X418218	02-May-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X417220	26-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X417119	24-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X417119	24-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X417119	24-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X417119	24-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X417169	26-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X417170	26-Apr-24	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X417211	25-Apr-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X417078	23-Apr-24	

SVL holds the following certifications:

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

Work Page 9 of 15

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0400**

Reported: 08-May-24 09:18

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes

Anions by Ion Chromatography (Continued)

EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X417078	23-Apr-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X417078	23-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X417078	23-Apr-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X417078	23-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X417078	23-Apr-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	4.93	5.00	98.6	77 - 123	X418185	06-May-24	

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

EPA 200.7	Calcium	mg/L	20.3	20.0	102	85 - 115	X418189	03-May-24	
EPA 200.7	Magnesium	mg/L	20.4	20.0	102	85 - 115	X418189	03-May-24	
EPA 200.7	Potassium	mg/L	20.4	20.0	102	85 - 115	X418189	03-May-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.931	1.00	93.1	85 - 115	X417213	29-Apr-24	
EPA 200.7	Barium	mg/L	0.974	1.00	97.4	85 - 115	X417213	29-Apr-24	
EPA 200.7	Beryllium	mg/L	0.969	1.00	96.9	85 - 115	X417213	29-Apr-24	
EPA 200.7	Boron	mg/L	0.981	1.00	98.1	85 - 115	X417213	29-Apr-24	
EPA 200.7	Cadmium	mg/L	0.989	1.00	98.9	85 - 115	X417213	29-Apr-24	
EPA 200.7	Calcium	mg/L	18.8	20.0	93.8	85 - 115	X417213	29-Apr-24	
EPA 200.7	Chromium	mg/L	0.966	1.00	96.6	85 - 115	X417213	29-Apr-24	
EPA 200.7	Cobalt	mg/L	0.979	1.00	97.9	85 - 115	X417213	29-Apr-24	
EPA 200.7	Copper	mg/L	0.977	1.00	97.7	85 - 115	X417213	29-Apr-24	
EPA 200.7	Iron	mg/L	9.87	10.0	98.7	85 - 115	X417213	29-Apr-24	
EPA 200.7	Lead	mg/L	0.968	1.00	96.8	85 - 115	X417213	29-Apr-24	
EPA 200.7	Lithium	mg/L	0.965	1.00	96.5	85 - 115	X417213	29-Apr-24	
EPA 200.7	Magnesium	mg/L	19.2	20.0	96.1	85 - 115	X417213	29-Apr-24	
EPA 200.7	Manganese	mg/L	0.951	1.00	95.1	85 - 115	X417213	29-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.986	1.00	98.6	85 - 115	X417213	29-Apr-24	
EPA 200.7	Nickel	mg/L	0.963	1.00	96.3	85 - 115	X417213	29-Apr-24	
EPA 200.7	Potassium	mg/L	19.2	20.0	96.1	85 - 115	X417213	29-Apr-24	
EPA 200.7	Silver	mg/L	0.0488	0.0500	97.5	85 - 115	X417213	29-Apr-24	
EPA 200.7	Sodium	mg/L	17.9	19.0	94.4	85 - 115	X417213	29-Apr-24	
EPA 200.7	Vanadium	mg/L	0.978	1.00	97.8	85 - 115	X417213	29-Apr-24	
EPA 200.7	Zinc	mg/L	0.966	1.00	96.6	85 - 115	X417213	29-Apr-24	
EPA 200.8	Antimony	mg/L	0.0231	0.0250	92.5	85 - 115	X418003	06-May-24	
EPA 200.8	Arsenic	mg/L	0.0238	0.0250	95.4	85 - 115	X418003	06-May-24	
EPA 200.8	Selenium	mg/L	0.0253	0.0250	101	85 - 115	X418003	06-May-24	
EPA 200.8	Thallium	mg/L	0.0236	0.0250	94.3	85 - 115	X418003	06-May-24	
EPA 200.8	Uranium	mg/L	0.0229	0.0250	91.4	85 - 115	X418003	06-May-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00205	0.00200	103	85 - 115	X418260	07-May-24	

Metals (Potentially Dissolved)

EPA 200.8	Aluminum	mg/L	0.203	0.195	104	85 - 115	X418010	29-Apr-24	
EPA 200.8	Cadmium	mg/L	0.0248	0.0250	99.1	85 - 115	X418010	29-Apr-24	
EPA 200.8	Selenium	mg/L	0.0260	0.0250	104	85 - 115	X418010	29-Apr-24	
EPA 200.8	Silver	mg/L	0.0249	0.0250	99.6	85 - 115	X418010	29-Apr-24	
EPA 200.8	Zinc	mg/L	0.0261	0.0250	104	85 - 115	X418010	29-Apr-24	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0400**

Reported: 08-May-24 09:18

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.102	0.100	102	90 - 110	X418027	29-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.100	102	90 - 110	X418022	30-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X417116	24-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X418218	02-May-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	893	884	101	95.4 - 104	X417220	26-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.2	9.93	103	96.4 - 105	X417119	24-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	96.4 - 105	X417119	24-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X417170	26-Apr-24	
SM 4500 S D	Sulfide	mg/L	0.493	0.500	98.6	85 - 115	X417211	25-Apr-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.01	3.00	100	90 - 110	X417078	23-Apr-24	
EPA 300.0	Fluoride	mg/L	1.96	2.00	98.0	90 - 110	X417078	23-Apr-24	
EPA 300.0	Nitrate as N	mg/L	2.00	2.00	100	90 - 110	X417078	23-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.54	4.50	101	90 - 110	X417078	23-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.53	2.50	101	90 - 110	X417078	23-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X417078	23-Apr-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	X417220 - X4D0331-01	26-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0	<1.0	<RL	20	X417119 - X4D0360-01	24-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0	<1.0	<RL	20	X417119 - X4D0360-01	24-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X417119 - X4D0360-01	24-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X417119 - X4D0360-01	24-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	155	179	14.4	10	X417169 - X4D0428-02	26-Apr-24	R2B
SM 2540 C	Total Diss. Solids	mg/L	318	319	0.3	10	X417169 - X4D0417-01	26-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X417170 - X4D0428-02	26-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X417170 - X4D0417-01	26-Apr-24	
SM 4500 H B	pH @16.4°C	pH Units	5.4	5.5	0.4	20	X417119 - X4D0360-01	24-Apr-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	3.17	0.819	2.50	93.9	71 - 125	X418185 - X4D0415-01	06-May-24	
EPA 1631E	Mercury	ng/L	3.29	0.709	2.50	103	71 - 125	X418185 - X4D0416-01	06-May-24	

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

EPA 200.7	Calcium	mg/L	50.7	29.3	20.0	107	70 - 130	X418189 - X4D0399-01	03-May-24	
EPA 200.7	Calcium	mg/L	61.8	39.5	20.0	112	70 - 130	X418189 - X4D0444-01	03-May-24	
EPA 200.7	Magnesium	mg/L	26.5	5.96	20.0	103	70 - 130	X418189 - X4D0399-01	03-May-24	
EPA 200.7	Magnesium	mg/L	35.2	15.3	20.0	99.6	70 - 130	X418189 - X4D0444-01	03-May-24	
EPA 200.7	Potassium	mg/L	83.9	61.9	20.0	110	70 - 130	X418189 - X4D0399-01	03-May-24	
EPA 200.7	Potassium	mg/L	23.3	2.86	20.0	102	70 - 130	X418189 - X4D0444-01	03-May-24	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0400**

Reported: 08-May-24 09:18

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)										
EPA 200.7	Aluminum	mg/L	1.02	<0.080	1.00	102	70 - 130	X417213 - X4D0408-01	29-Apr-24	
EPA 200.7	Barium	mg/L	1.10	0.0540	1.00	104	70 - 130	X417213 - X4D0408-01	29-Apr-24	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X417213 - X4D0408-01	29-Apr-24	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	102	70 - 130	X417213 - X4D0408-01	29-Apr-24	
EPA 200.7	Cadmium	mg/L	1.05	<0.0020	1.00	105	70 - 130	X417213 - X4D0408-01	29-Apr-24	
EPA 200.7	Calcium	mg/L	103	82.7	20.0	104	70 - 130	X417213 - X4D0408-01	29-Apr-24	
EPA 200.7	Chromium	mg/L	1.04	<0.0060	1.00	104	70 - 130	X417213 - X4D0408-01	29-Apr-24	
EPA 200.7	Cobalt	mg/L	1.01	<0.0060	1.00	101	70 - 130	X417213 - X4D0408-01	29-Apr-24	
EPA 200.7	Copper	mg/L	1.05	<0.0100	1.00	105	70 - 130	X417213 - X4D0408-01	29-Apr-24	
EPA 200.7	Iron	mg/L	10.6	<0.100	10.0	106	70 - 130	X417213 - X4D0408-01	29-Apr-24	
EPA 200.7	Lead	mg/L	1.01	<0.0075	1.00	101	70 - 130	X417213 - X4D0408-01	29-Apr-24	
EPA 200.7	Lithium	mg/L	1.04	<0.040	1.00	104	70 - 130	X417213 - X4D0408-01	29-Apr-24	
EPA 200.7	Magnesium	mg/L	73.0	51.6	20.0	107	70 - 130	X417213 - X4D0408-01	29-Apr-24	
EPA 200.7	Manganese	mg/L	1.03	0.0092	1.00	102	70 - 130	X417213 - X4D0408-01	29-Apr-24	
EPA 200.7	Molybdenum	mg/L	1.02	<0.0080	1.00	102	70 - 130	X417213 - X4D0408-01	29-Apr-24	
EPA 200.7	Nickel	mg/L	0.993	<0.0100	1.00	99.3	70 - 130	X417213 - X4D0408-01	29-Apr-24	
EPA 200.7	Potassium	mg/L	22.4	1.11	20.0	106	70 - 130	X417213 - X4D0408-01	29-Apr-24	
EPA 200.7	Silver	mg/L	0.0503	<0.0050	0.0500	101	70 - 130	X417213 - X4D0408-01	29-Apr-24	
EPA 200.7	Sodium	mg/L	22.2	2.51	19.0	104	70 - 130	X417213 - X4D0408-01	29-Apr-24	
EPA 200.7	Vanadium	mg/L	1.05	<0.0050	1.00	105	70 - 130	X417213 - X4D0408-01	29-Apr-24	
EPA 200.7	Zinc	mg/L	1.01	<0.0100	1.00	101	70 - 130	X417213 - X4D0408-01	29-Apr-24	
EPA 200.8	Antimony	mg/L	0.658	0.638	0.0250	79.7	70 - 130	X418003 - X4D0385-01	06-May-24	D1
EPA 200.8	Antimony	mg/L	0.0281	<0.00100	0.0250	112	70 - 130	X418003 - X4D0403-06	06-May-24	
EPA 200.8	Arsenic	mg/L	0.342	0.314	0.0250	112	70 - 130	X418003 - X4D0385-01	06-May-24	D1
EPA 200.8	Arsenic	mg/L	0.0288	<0.00100	0.0250	115	70 - 130	X418003 - X4D0403-06	06-May-24	
EPA 200.8	Selenium	mg/L	0.682	0.748	0.0250	0.30R>S	70 - 130	X418003 - X4D0385-01	06-May-24	D1,M4
EPA 200.8	Selenium	mg/L	0.0291	<0.00100	0.0250	113	70 - 130	X418003 - X4D0403-06	06-May-24	
EPA 200.8	Thallium	mg/L	<0.0200	<0.0200	0.0250	N/A	70 - 130	X418003 - X4D0385-01	06-May-24	D1,M4
EPA 200.8	Thallium	mg/L	0.0273	<0.000200	0.0250	109	70 - 130	X418003 - X4D0403-06	06-May-24	
EPA 200.8	Uranium	mg/L	0.0200	<0.0100	0.0250	79.9	70 - 130	X418003 - X4D0385-01	06-May-24	D1
EPA 200.8	Uranium	mg/L	0.0640	0.0369	0.0250	108	70 - 130	X418003 - X4D0403-06	06-May-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00205	<0.000200	0.00200	102	70 - 130	X418260 - X4D0400-02	07-May-24	
Metals (Potentially Dissolved)										
EPA 200.8	Aluminum	mg/L	0.197	0.0169	0.195	92.2	70 - 130	X418010 - X4D0283-02	29-Apr-24	
EPA 200.8	Cadmium	mg/L	0.0251	<0.000100	0.0250	100	70 - 130	X418010 - X4D0283-02	29-Apr-24	
EPA 200.8	Selenium	mg/L	0.0242	<0.00100	0.0250	97.0	70 - 130	X418010 - X4D0283-02	29-Apr-24	
EPA 200.8	Silver	mg/L	0.0238	<0.00008	0.0250	95.0	70 - 130	X418010 - X4D0283-02	29-Apr-24	
EPA 200.8	Zinc	mg/L	0.0254	<0.0040	0.0250	102	70 - 130	X418010 - X4D0283-02	29-Apr-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	<0.0050	0.100	97.0	79 - 121	X418027 - X4D0346-13	29-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.113	0.0092	0.100	104	90 - 110	X418022 - X4D0400-02	30-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.107	<0.0050	0.100	103	90 - 110	X418022 - X4D0400-03	30-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	102	90 - 110	X417116 - X4D0358-10	24-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.07	<0.030	1.00	107	90 - 110	X417116 - X4D0358-15	24-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.107	<0.0050	0.100	107	82 - 118	X418218 - X4D0086-05	02-May-24	
SM 4500 S D	Sulfide	mg/L	5.34	5.76	0.200	0.30R>S	75 - 125	X417211 - X4D0412-03	25-Apr-24	D2,M4

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0400**

Reported: 08-May-24 09:18

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										
EPA 300.0	Chloride	mg/L	155	156	3.00	0.30R>S	90 - 110	X417078 - X4D0400-02	23-Apr-24	D2,M4
EPA 300.0	Fluoride	mg/L	4.11	2.33	2.00	89.2	90 - 110	X417078 - X4D0400-02	23-Apr-24	M2
EPA 300.0	Nitrate as N	mg/L	4.70	2.61	2.00	105	90 - 110	X417078 - X4D0400-02	23-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	6.76	2.61	4.00	104	90 - 110	X417078 - X4D0400-02	23-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.06	<0.050	2.00	103	90 - 110	X417078 - X4D0400-02	23-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	654	660	10.0	0.30R>S	90 - 110	X417078 - X4D0400-02	23-Apr-24	D2,M4

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes

Metals (Total)

EPA 1631E	Mercury	ng/L	3.52	3.29	2.50	6.7	24	112	X418185 - X4D0416-01	
EPA 1631E	Mercury	ng/L	3.67	3.17	2.50	14.8	24	114	X418185 - X4D0415-01	

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

EPA 200.7	Calcium	mg/L	50.2	50.7	20.0	0.9	20	105	X418189 - X4D0399-01	
EPA 200.7	Magnesium	mg/L	26.8	26.5	20.0	1.3	20	104	X418189 - X4D0399-01	
EPA 200.7	Potassium	mg/L	82.8	83.9	20.0	1.3	20	105	X418189 - X4D0399-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.00	1.02	1.00	1.8	20	100	X417213 - X4D0408-01	
EPA 200.7	Barium	mg/L	1.06	1.10	1.00	3.7	20	100	X417213 - X4D0408-01	
EPA 200.7	Beryllium	mg/L	0.979	1.02	1.00	4.4	20	97.9	X417213 - X4D0408-01	
EPA 200.7	Boron	mg/L	0.986	1.02	1.00	3.2	20	98.6	X417213 - X4D0408-01	
EPA 200.7	Cadmium	mg/L	1.00	1.05	1.00	4.8	20	100	X417213 - X4D0408-01	
EPA 200.7	Calcium	mg/L	104	103	20.0	0.3	20	105	X417213 - X4D0408-01	
EPA 200.7	Chromium	mg/L	0.999	1.04	1.00	3.8	20	99.9	X417213 - X4D0408-01	
EPA 200.7	Cobalt	mg/L	0.954	1.01	1.00	5.5	20	95.4	X417213 - X4D0408-01	
EPA 200.7	Copper	mg/L	0.992	1.05	1.00	5.2	20	99.2	X417213 - X4D0408-01	
EPA 200.7	Iron	mg/L	10.2	10.6	10.0	3.9	20	102	X417213 - X4D0408-01	
EPA 200.7	Lead	mg/L	0.966	1.01	1.00	4.4	20	96.6	X417213 - X4D0408-01	
EPA 200.7	Lithium	mg/L	1.00	1.04	1.00	3.7	20	100	X417213 - X4D0408-01	
EPA 200.7	Magnesium	mg/L	71.8	73.0	20.0	1.7	20	101	X417213 - X4D0408-01	
EPA 200.7	Manganese	mg/L	0.995	1.03	1.00	3.9	20	98.5	X417213 - X4D0408-01	
EPA 200.7	Molybdenum	mg/L	0.969	1.02	1.00	4.7	20	96.9	X417213 - X4D0408-01	
EPA 200.7	Nickel	mg/L	0.947	0.993	1.00	4.7	20	94.7	X417213 - X4D0408-01	
EPA 200.7	Potassium	mg/L	21.5	22.4	20.0	3.8	20	102	X417213 - X4D0408-01	
EPA 200.7	Silver	mg/L	0.0501	0.0503	0.0500	0.4	20	100	X417213 - X4D0408-01	
EPA 200.7	Sodium	mg/L	21.7	22.2	19.0	2.3	20	101	X417213 - X4D0408-01	
EPA 200.7	Vanadium	mg/L	1.01	1.05	1.00	4.0	20	101	X417213 - X4D0408-01	
EPA 200.7	Zinc	mg/L	0.969	1.01	1.00	4.6	20	96.9	X417213 - X4D0408-01	
EPA 200.8	Antimony	mg/L	0.653	0.658	0.0250	0.7	20	0.30R>S	X418003 - X4D0385-01	D1,M4
EPA 200.8	Arsenic	mg/L	0.337	0.342	0.0250	1.5	20	90.8	X418003 - X4D0385-01	D1
EPA 200.8	Selenium	mg/L	0.877	0.682	0.0250	25.0	20	0.30R>S	X418003 - X4D0385-01	D1,M4
EPA 200.8	Thallium	mg/L	<0.0200	<0.0200	0.0250	N/A	20	37.9	X418003 - X4D0385-01	D1,M4
EPA 200.8	Uranium	mg/L	0.0216	0.0200	0.0250	8.0	20	86.5	X418003 - X4D0385-01	D1

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00198	0.00205	0.00200	3.2	20	99.1	X418260 - X4D0400-02	

Metals (Potentially Dissolved)

EPA 200.8	Aluminum	mg/L	0.196	0.197	0.195	0.2	20	92.0	X418010 - X4D0283-02	
EPA 200.8	Cadmium	mg/L	0.0259	0.0251	0.0250	3.4	20	104	X418010 - X4D0283-02	
EPA 200.8	Selenium	mg/L	0.0230	0.0242	0.0250	5.4	20	91.9	X418010 - X4D0283-02	

SVL holds the following certifications:

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

Work



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0400**

Reported: 08-May-24 09:18

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 (Potentially Dissolved) (Continued)										
EPA 200.8	Silver	mg/L	0.0247	0.0238	0.0250	3.8	20	98.7	X418010 - X4D0283-02	
EPA 200.8	Zinc	mg/L	0.0259	0.0254	0.0250	1.9	20	104	X418010 - X4D0283-02	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.105	0.0970	0.100	7.9	11	105	X418027 - X4D0346-13	
EPA 335.4	Cyanide (total)	mg/L	0.112	0.113	0.100	0.4	20	103	X418022 - X4D0400-02	
EPA 350.1	Ammonia as N	mg/L	1.06	1.03	1.00	2.2	20	104	X417116 - X4D0358-10	
OIA 1677	Cyanide (WAD)	mg/L	0.109	0.107	0.100	1.9	11	109	X418218 - X4D0086-05	
SM 4500 S D	Sulfide	mg/L	5.10	5.34	0.200	4.6	20	0.30R>S	X417211 - X4D0412-03	D2,M4
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	157	155	3.00	1.0	20	0.30R>S	X417078 - X4D0400-02	D2,M4
EPA 300.0	Fluoride	mg/L	4.10	4.11	2.00	0.3	20	88.7	X417078 - X4D0400-02	M2
EPA 300.0	Nitrate as N	mg/L	4.72	4.70	2.00	0.4	20	105	X417078 - X4D0400-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	6.80	6.76	4.00	0.5	20	105	X417078 - X4D0400-02	
EPA 300.0	Nitrite as N	mg/L	2.08	2.06	2.00	0.9	20	104	X417078 - X4D0400-02	
EPA 300.0	Sulfate as SO4	mg/L	653	654	10.0	0.2	20	0.30R>S	X417078 - X4D0400-02	D2,M4



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0400**

Reported: 08-May-24 09:18

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0449**

Reported: 08-May-24 10:14

Client Sample ID: **CRMW-3A**

Sampled: 24-Apr-24 14:27

Received: 25-Apr-24

Sampled By: PB

SVL Sample ID: **X4D0449-02 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes

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

EPA 200.7	Calcium	193	mg/L	0.100	0.069		X418277	NMS	05/07/24 11:37	
EPA 200.7	Magnesium	52.7	mg/L	0.500	0.090		X418277	NMS	05/07/24 11:37	
EPA 200.7	Potassium	6.33	mg/L	0.50	0.18		X418277	NMS	05/07/24 11:37	
SM 2340 B	Hardness (as CaCO3)	698	mg/L	2.31	0.543		N/A		05/02/24 10:07	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X418179	NMS	05/02/24 10:07	
EPA 200.7	Barium	0.0195	mg/L	0.0020	0.0019		X418179	NMS	05/02/24 10:07	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X418179	NMS	05/02/24 10:07	
EPA 200.7	Boron	0.0810	mg/L	0.0400	0.0078		X418179	NMS	05/02/24 10:07	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X418179	NMS	05/02/24 10:07	
EPA 200.7	Calcium	209	mg/L	0.100	0.069		X418179	NMS	05/02/24 10:07	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X418179	NMS	05/02/24 10:07	
EPA 200.7	Cobalt	0.0195	mg/L	0.0060	0.0046		X418179	NMS	05/02/24 10:07	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X418179	NMS	05/02/24 10:07	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X418179	NMS	05/02/24 10:07	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X418179	NMS	05/02/24 10:07	
EPA 200.7	Lithium	0.103	mg/L	0.040	0.025		X418179	NMS	05/02/24 12:04	
EPA 200.7	Magnesium	60.3	mg/L	0.500	0.090		X418179	NMS	05/02/24 10:07	
EPA 200.7	Manganese	0.0117	mg/L	0.0080	0.0034		X418179	NMS	05/02/24 10:07	
EPA 200.7	Molybdenum	0.0576	mg/L	0.0080	0.0034		X418179	NMS	05/02/24 10:07	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X418179	NMS	05/02/24 10:07	
EPA 200.7	Potassium	7.33	mg/L	0.50	0.18		X418179	NMS	05/02/24 10:07	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X418179	NMS	05/02/24 10:07	
EPA 200.7	Sodium	77.8	mg/L	0.50	0.12		X418179	NMS	05/02/24 10:07	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X418179	NMS	05/02/24 10:07	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X418179	NMS	05/02/24 10:07	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X418003	SMU	05/07/24 14:32	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X418003	SMU	05/07/24 14:32	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X418003	SMU	05/07/24 14:32	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X418003	SMU	05/07/24 14:32	
EPA 200.8	Uranium	0.00813	mg/L	0.000100	0.000052		X418003	SMU	05/07/24 14:32	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X419026	MAC	05/07/24 16:51	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X418027	DD	04/29/24 13:43	
EPA 335.4	Cyanide (total)	0.0129	mg/L	0.0050	0.0038		X418022	DD	04/30/24 10:03	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X418105	DD	05/01/24 11:49	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X418218	DD	05/02/24 10:52	
SM 2310 B	Acidity to pH 8.3	-82.0	mg/L as CaCO3	10.0			X418255	MWD	05/03/24 12:38	
SM 2320 B	Total Alkalinity	87.9	mg/L as CaCO3	1.0			X418082	MWD	04/30/24 14:44	
SM 2320 B	Bicarbonate	87.9	mg/L as CaCO3	1.0			X418082	MWD	04/30/24 14:44	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X418082	MWD	04/30/24 14:44	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X418082	MWD	04/30/24 14:44	
SM 2540 C	Total Diss. Solids	1140	mg/L	10			X417205	TJL	04/29/24 15:00	
SM 2540 D	Total Susp. Solids	5.0	mg/L	5.0			X417206	TJL	04/29/24 16:10	
SM 4500 H B	pH @19.0°C	6.9	pH Units				X418082	MWD	04/30/24 14:44	H5

SVL holds the following certifications:

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

Work



One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
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Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4D0449 Reported: 08-May-24 10:14

Client Sample ID: **CRMW-3A**
SVL Sample ID: **X4D0449-02 (Ground Water)**

Sampled: 24-Apr-24 14:27
Received: 25-Apr-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	170	mg/L	10.0	1.10	50	X417197	RS	04/25/24 20:13	D2
EPA 300.0	Fluoride	4.01	mg/L	0.100	0.017		X417197	RS	04/25/24 19:55	
EPA 300.0	Nitrate as N	2.72	mg/L	0.050	0.013		X417197	RS	04/25/24 19:55	
EPA 300.0	Nitrate+Nitrite as N	2.72	mg/L	0.100	0.044		X417197	RS	04/25/24 19:55	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X417197	RS	04/25/24 19:55	
EPA 300.0	Sulfate as SO4	574	mg/L	15.0	9.00	50	X417197	RS	04/25/24 20:13	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 17.5 meq/L	Anion Sum: 18.9 meq/L	C/A Balance: -3.76 %	Calculated TDS: 1155	TDS/cTDS: 0.99

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



Kathryn Salter
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0449**

Reported: 08-May-24 10:14

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	X418277	07-May-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X418277	07-May-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X418277	07-May-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X418179	02-May-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X418179	02-May-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X418179	02-May-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X418179	02-May-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X418179	02-May-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X418179	02-May-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X418179	02-May-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X418179	02-May-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X418179	02-May-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X418179	02-May-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X418179	02-May-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X418179	02-May-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X418179	02-May-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X418179	02-May-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X418179	02-May-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X418179	02-May-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X418179	02-May-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X418179	02-May-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X418179	02-May-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X418179	02-May-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X418179	02-May-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X419026	07-May-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X418027	29-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X418022	30-Apr-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X418105	01-May-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X418218	02-May-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X418255	03-May-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X418082	30-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X418082	30-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X418082	30-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X418082	30-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X417205	29-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X417206	29-Apr-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X417197	25-Apr-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X417197	25-Apr-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X417197	25-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X417197	25-Apr-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X417197	25-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X417197	25-Apr-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: **X4D0449**

Reported: 08-May-24 10:14

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	19.2	20.0	96	85 - 115	X418277	07-May-24	
EPA 200.7	Magnesium	mg/L	19.3	20.0	96.7	85 - 115	X418277	07-May-24	
EPA 200.7	Potassium	mg/L	19.3	20.0	96.5	85 - 115	X418277	07-May-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.03	1.00	103	85 - 115	X418179	02-May-24	
EPA 200.7	Barium	mg/L	1.04	1.00	104	85 - 115	X418179	02-May-24	
EPA 200.7	Beryllium	mg/L	1.02	1.00	102	85 - 115	X418179	02-May-24	
EPA 200.7	Boron	mg/L	1.02	1.00	102	85 - 115	X418179	02-May-24	
EPA 200.7	Cadmium	mg/L	1.02	1.00	102	85 - 115	X418179	02-May-24	
EPA 200.7	Calcium	mg/L	20.3	20.0	101	85 - 115	X418179	02-May-24	
EPA 200.7	Chromium	mg/L	1.00	1.00	100	85 - 115	X418179	02-May-24	
EPA 200.7	Cobalt	mg/L	1.00	1.00	100	85 - 115	X418179	02-May-24	
EPA 200.7	Copper	mg/L	0.981	1.00	98.1	85 - 115	X418179	02-May-24	
EPA 200.7	Iron	mg/L	10.6	10.0	106	85 - 115	X418179	02-May-24	
EPA 200.7	Lead	mg/L	1.01	1.00	101	85 - 115	X418179	02-May-24	
EPA 200.7	Lithium	mg/L	0.971	1.00	97.1	85 - 115	X418179	02-May-24	
EPA 200.7	Magnesium	mg/L	20.5	20.0	102	85 - 115	X418179	02-May-24	
EPA 200.7	Manganese	mg/L	1.03	1.00	103	85 - 115	X418179	02-May-24	
EPA 200.7	Molybdenum	mg/L	0.996	1.00	99.6	85 - 115	X418179	02-May-24	
EPA 200.7	Nickel	mg/L	1.01	1.00	101	85 - 115	X418179	02-May-24	
EPA 200.7	Potassium	mg/L	20.4	20.0	102	85 - 115	X418179	02-May-24	
EPA 200.7	Silver	mg/L	0.0512	0.0500	102	85 - 115	X418179	02-May-24	
EPA 200.7	Sodium	mg/L	19.3	19.0	101	85 - 115	X418179	02-May-24	
EPA 200.7	Vanadium	mg/L	1.02	1.00	102	85 - 115	X418179	02-May-24	
EPA 200.7	Zinc	mg/L	1.00	1.00	100	85 - 115	X418179	02-May-24	
EPA 200.8	Antimony	mg/L	0.0231	0.0250	92.5	85 - 115	X418003	06-May-24	
EPA 200.8	Arsenic	mg/L	0.0238	0.0250	95.4	85 - 115	X418003	06-May-24	
EPA 200.8	Selenium	mg/L	0.0253	0.0250	101	85 - 115	X418003	06-May-24	
EPA 200.8	Thallium	mg/L	0.0236	0.0250	94.3	85 - 115	X418003	06-May-24	
EPA 200.8	Uranium	mg/L	0.0229	0.0250	91.4	85 - 115	X418003	06-May-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00204	0.00200	102	85 - 115	X419026	07-May-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.102	0.100	102	90 - 110	X418027	29-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.100	102	90 - 110	X418022	30-Apr-24	
EPA 350.1	Ammonia as N	mg/L	0.979	1.00	97.9	90 - 110	X418105	01-May-24	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X418218	02-May-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	897	884	102	95.4 - 104	X418255	03-May-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	96.4 - 105	X418082	30-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	405	397	102	96.4 - 105	X418082	30-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X417206	29-Apr-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.02	3.00	101	90 - 110	X417197	25-Apr-24	
EPA 300.0	Fluoride	mg/L	1.95	2.00	97.7	90 - 110	X417197	25-Apr-24	
EPA 300.0	Nitrate as N	mg/L	2.00	2.00	100	90 - 110	X417197	25-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.49	4.50	99.9	90 - 110	X417197	25-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.49	2.50	99.7	90 - 110	X417197	25-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.0	105	90 - 110	X417197	25-Apr-24	

SVL holds the following certifications:

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

Work

Page 7 of 11

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0449**

Reported: 08-May-24 10:14

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	<10.0	<10.0	UDL	20	X418255 - X4D0437-01	03-May-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	149	151	1.3	20	X418082 - X4D0437-02	30-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	149	151	1.3	20	X418082 - X4D0437-02	30-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X418082 - X4D0437-02	30-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X418082 - X4D0437-02	30-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	148	215	36.9	10	X417205 - X4D0449-01	29-Apr-24	R2B
SM 2540 C	Total Diss. Solids	mg/L	305	363	17.4	10	X417205 - X4D0448-01	29-Apr-24	R2B
SM 2540 D	Total Susp. Solids	mg/L	12.0	12.0	0.0	10	X417206 - X4D0449-01	29-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	14.0	14.0	0.0	10	X417206 - X4D0448-01	29-Apr-24	
SM 4500 H B	pH @18.7°C	pH Units	6.1	6.2	1.6	20	X418082 - X4D0437-02	30-Apr-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	79.7	59.3	20.0	102	70 - 130	X418277 - X4D0448-01	07-May-24	
EPA 200.7	Magnesium	mg/L	29.7	9.29	20.0	102	70 - 130	X418277 - X4D0448-01	07-May-24	
EPA 200.7	Potassium	mg/L	22.2	2.37	20.0	99.2	70 - 130	X418277 - X4D0448-01	07-May-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.07	<0.080	1.00	107	70 - 130	X418179 - X4D0507-01	02-May-24	
EPA 200.7	Barium	mg/L	1.12	0.0564	1.00	107	70 - 130	X418179 - X4D0507-01	02-May-24	
EPA 200.7	Beryllium	mg/L	1.03	<0.00200	1.00	103	70 - 130	X418179 - X4D0507-01	02-May-24	
EPA 200.7	Boron	mg/L	1.05	<0.0400	1.00	104	70 - 130	X418179 - X4D0507-01	02-May-24	
EPA 200.7	Cadmium	mg/L	1.03	<0.0020	1.00	103	70 - 130	X418179 - X4D0507-01	02-May-24	
EPA 200.7	Calcium	mg/L	105	83.9	20.0	107	70 - 130	X418179 - X4D0507-01	02-May-24	
EPA 200.7	Chromium	mg/L	1.01	<0.0060	1.00	101	70 - 130	X418179 - X4D0507-01	02-May-24	
EPA 200.7	Cobalt	mg/L	0.981	<0.0060	1.00	98.1	70 - 130	X418179 - X4D0507-01	02-May-24	
EPA 200.7	Copper	mg/L	0.989	<0.0100	1.00	98.9	70 - 130	X418179 - X4D0507-01	02-May-24	
EPA 200.7	Iron	mg/L	10.9	<0.100	10.0	109	70 - 130	X418179 - X4D0507-01	02-May-24	
EPA 200.7	Lead	mg/L	1.00	<0.0075	1.00	100	70 - 130	X418179 - X4D0507-01	02-May-24	
EPA 200.7	Lithium	mg/L	1.02	<0.040	1.00	98.8	70 - 130	X418179 - X4D0507-01	02-May-24	
EPA 200.7	Magnesium	mg/L	73.9	51.8	20.0	110	70 - 130	X418179 - X4D0507-01	02-May-24	
EPA 200.7	Manganese	mg/L	1.06	<0.0080	1.00	105	70 - 130	X418179 - X4D0507-01	02-May-24	
EPA 200.7	Molybdenum	mg/L	1.01	<0.0080	1.00	101	70 - 130	X418179 - X4D0507-01	02-May-24	
EPA 200.7	Nickel	mg/L	0.987	<0.0100	1.00	98.7	70 - 130	X418179 - X4D0507-01	02-May-24	
EPA 200.7	Potassium	mg/L	22.0	1.17	20.0	104	70 - 130	X418179 - X4D0507-01	02-May-24	
EPA 200.7	Silver	mg/L	0.0528	<0.0050	0.0500	106	70 - 130	X418179 - X4D0507-01	02-May-24	
EPA 200.7	Sodium	mg/L	22.8	2.70	19.0	106	70 - 130	X418179 - X4D0507-01	02-May-24	
EPA 200.7	Vanadium	mg/L	1.04	<0.0050	1.00	104	70 - 130	X418179 - X4D0507-01	02-May-24	
EPA 200.7	Zinc	mg/L	0.992	<0.0100	1.00	99.2	70 - 130	X418179 - X4D0507-01	02-May-24	
EPA 200.8	Antimony	mg/L	0.658	0.638	0.0250	79.7	70 - 130	X418003 - X4D0385-01	06-May-24	D1
EPA 200.8	Antimony	mg/L	0.0281	<0.00100	0.0250	112	70 - 130	X418003 - X4D0403-06	06-May-24	
EPA 200.8	Arsenic	mg/L	0.342	0.314	0.0250	112	70 - 130	X418003 - X4D0385-01	06-May-24	D1
EPA 200.8	Arsenic	mg/L	0.0288	<0.00100	0.0250	115	70 - 130	X418003 - X4D0403-06	06-May-24	
EPA 200.8	Selenium	mg/L	0.682	0.748	0.0250	0.30R>S	70 - 130	X418003 - X4D0385-01	06-May-24	D1,M4
EPA 200.8	Selenium	mg/L	0.0291	<0.00100	0.0250	113	70 - 130	X418003 - X4D0403-06	06-May-24	
EPA 200.8	Thallium	mg/L	<0.0200	<0.0200	0.0250	N/A	70 - 130	X418003 - X4D0385-01	06-May-24	D1,M4
EPA 200.8	Thallium	mg/L	0.0273	<0.000200	0.0250	109	70 - 130	X418003 - X4D0403-06	06-May-24	

SVL holds the following certifications:

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

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0449**

Reported: 08-May-24 10:14

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 200.8	Uranium	mg/L	0.0200	<0.0100	0.0250	79.9	70 - 130	X418003 - X4D0385-01	06-May-24	D1
EPA 200.8	Uranium	mg/L	0.0640	0.0369	0.0250	108	70 - 130	X418003 - X4D0403-06	06-May-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00203	<0.000200	0.00200	102	70 - 130	X419026 - X4D0421-01	07-May-24	
EPA 245.1	Mercury	mg/L	0.00203	<0.000200	0.00200	101	70 - 130	X419026 - X4D0466-01	07-May-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	<0.0050	0.100	97.0	79 - 121	X418027 - X4D0346-13	29-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.113	0.0092	0.100	104	90 - 110	X418022 - X4D0400-02	30-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.107	<0.0050	0.100	103	90 - 110	X418022 - X4D0400-03	30-Apr-24	
EPA 350.1	Ammonia as N	mg/L	0.969	<0.030	1.00	96.9	90 - 110	X418105 - X4D0421-01	01-May-24	
EPA 350.1	Ammonia as N	mg/L	0.975	<0.030	1.00	97.5	90 - 110	X418105 - X4D0422-01	01-May-24	
OIA 1677	Cyanide (WAD)	mg/L	0.107	<0.0050	0.100	107	82 - 118	X418218 - X4D0086-05	02-May-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	31.2	29.0	3.00	0.30R>S	90 - 110	X417197 - X4D0448-01	25-Apr-24	D2,M4
EPA 300.0	Chloride	mg/L	12.0	8.74	3.00	110	90 - 110	X417197 - X4D0454-01	25-Apr-24	
EPA 300.0	Fluoride	mg/L	3.58	1.63	2.00	97.1	90 - 110	X417197 - X4D0448-01	25-Apr-24	
EPA 300.0	Fluoride	mg/L	2.05	<0.100	2.00	99.1	90 - 110	X417197 - X4D0454-01	25-Apr-24	
EPA 300.0	Nitrate as N	mg/L	2.34	0.344	2.00	99.5	90 - 110	X417197 - X4D0448-01	25-Apr-24	
EPA 300.0	Nitrate as N	mg/L	2.10	0.099	2.00	100	90 - 110	X417197 - X4D0454-01	25-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.35	0.344	4.00	100	90 - 110	X417197 - X4D0448-01	25-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.14	<0.100	4.00	101	90 - 110	X417197 - X4D0454-01	25-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.01	<0.050	2.00	101	90 - 110	X417197 - X4D0448-01	25-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X417197 - X4D0454-01	25-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	115	106	10.0	0.30R>S	90 - 110	X417197 - X4D0448-01	25-Apr-24	D2,M4
EPA 300.0	Sulfate as SO4	mg/L	32.7	22.7	10.0	101	90 - 110	X417197 - X4D0454-01	25-Apr-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	78.5	79.7	20.0	2.0	20	96	X418277 - X4D0448-01	
EPA 200.7	Magnesium	mg/L	29.3	29.7	20.0	1.3	20	100	X418277 - X4D0448-01	
EPA 200.7	Potassium	mg/L	22.0	22.2	20.0	1.0	20	98.1	X418277 - X4D0448-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.06	1.07	1.00	1.1	20	106	X418179 - X4D0507-01	
EPA 200.7	Barium	mg/L	1.12	1.12	1.00	0.4	20	106	X418179 - X4D0507-01	
EPA 200.7	Beryllium	mg/L	1.04	1.03	1.00	0.7	20	104	X418179 - X4D0507-01	
EPA 200.7	Boron	mg/L	1.04	1.05	1.00	0.8	20	103	X418179 - X4D0507-01	
EPA 200.7	Cadmium	mg/L	1.01	1.03	1.00	1.2	20	101	X418179 - X4D0507-01	
EPA 200.7	Calcium	mg/L	106	105	20.0	0.4	20	109	X418179 - X4D0507-01	
EPA 200.7	Chromium	mg/L	1.03	1.01	1.00	1.7	20	103	X418179 - X4D0507-01	
EPA 200.7	Cobalt	mg/L	0.970	0.981	1.00	1.1	20	97.0	X418179 - X4D0507-01	
EPA 200.7	Copper	mg/L	0.997	0.989	1.00	0.8	20	99.7	X418179 - X4D0507-01	
EPA 200.7	Iron	mg/L	10.8	10.9	10.0	0.9	20	108	X418179 - X4D0507-01	
EPA 200.7	Lead	mg/L	0.998	1.00	1.00	0.3	20	99.8	X418179 - X4D0507-01	
EPA 200.7	Lithium	mg/L	1.02	1.02	1.00	0.3	20	98.4	X418179 - X4D0507-01	
EPA 200.7	Magnesium	mg/L	73.8	73.9	20.0	0.2	20	110	X418179 - X4D0507-01	



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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: **X4D0449**

Reported: 08-May-24 10:14

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	Manganese	mg/L	1.06	1.06	1.00	0.3	20	105	X418179 - X4D0507-01	
EPA 200.7	Molybdenum	mg/L	1.00	1.01	1.00	0.7	20	100	X418179 - X4D0507-01	
EPA 200.7	Nickel	mg/L	0.983	0.987	1.00	0.4	20	98.3	X418179 - X4D0507-01	
EPA 200.7	Potassium	mg/L	22.2	22.0	20.0	0.9	20	105	X418179 - X4D0507-01	
EPA 200.7	Silver	mg/L	0.0528	0.0528	0.0500	0.1	20	106	X418179 - X4D0507-01	
EPA 200.7	Sodium	mg/L	22.8	22.8	19.0	0.1	20	106	X418179 - X4D0507-01	
EPA 200.7	Vanadium	mg/L	1.04	1.04	1.00	0.4	20	104	X418179 - X4D0507-01	
EPA 200.7	Zinc	mg/L	0.981	0.992	1.00	1.1	20	98.1	X418179 - X4D0507-01	
EPA 200.8	Antimony	mg/L	0.653	0.658	0.0250	0.7	20	0.30R>S	X418003 - X4D0385-01	D1,M4
EPA 200.8	Arsenic	mg/L	0.337	0.342	0.0250	1.5	20	90.8	X418003 - X4D0385-01	D1
EPA 200.8	Selenium	mg/L	0.877	0.682	0.0250	25.0	20	0.30R>S	X418003 - X4D0385-01	D1,M4
EPA 200.8	Thallium	mg/L	<0.0200	<0.0200	0.0250	N/A	20	37.9	X418003 - X4D0385-01	D1,M4
EPA 200.8	Uranium	mg/L	0.0216	0.0200	0.0250	8.0	20	86.5	X418003 - X4D0385-01	D1

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00198	0.00203	0.00200	2.5	20	99.1	X419026 - X4D0421-01	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.105	0.0970	0.100	7.9	11	105	X418027 - X4D0346-13	
EPA 335.4	Cyanide (total)	mg/L	0.112	0.113	0.100	0.4	20	103	X418022 - X4D0400-02	
EPA 350.1	Ammonia as N	mg/L	1.04	0.969	1.00	7.2	20	104	X418105 - X4D0421-01	
OIA 1677	Cyanide (WAD)	mg/L	0.109	0.107	0.100	1.9	11	109	X418218 - X4D0086-05	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	31.7	31.2	3.00	1.6	20	91.2	X417197 - X4D0448-01	D2
EPA 300.0	Fluoride	mg/L	3.61	3.58	2.00	0.8	20	98.6	X417197 - X4D0448-01	
EPA 300.0	Nitrate as N	mg/L	2.37	2.34	2.00	1.4	20	101	X417197 - X4D0448-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.42	4.35	4.00	1.6	20	102	X417197 - X4D0448-01	
EPA 300.0	Nitrite as N	mg/L	2.05	2.01	2.00	1.8	20	102	X417197 - X4D0448-01	
EPA 300.0	Sulfate as SO4	mg/L	116	115	10.0	0.8	20	97.8	X417197 - X4D0448-01	D2



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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0449**

Reported: 08-May-24 10:14

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
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.
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


Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0006**

Reported: 15-May-24 13:40

Client Sample ID: **CRMW-5D**

Sampled: 30-Apr-24 09:00

Received: 01-May-24

Sampled By: PB

SVL Sample ID: **X4E0006-02 (Ground Water)**
Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes

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

EPA 200.7	Calcium	17.3	mg/L	0.100	0.069		X419017	SMU	05/07/24 13:28	
EPA 200.7	Magnesium	3.17	mg/L	0.500	0.090		X419017	SMU	05/07/24 13:28	
EPA 200.7	Potassium	2.03	mg/L	0.50	0.18		X419017	SMU	05/07/24 13:28	
SM 2340 B	Hardness (as CaCO3)	56.3	mg/L	2.31	0.543		N/A		05/10/24 12:06	

Metals (Dissolved)

EPA 200.7	Aluminum	0.084	mg/L	0.080	0.054		X419008	NMS	05/10/24 12:06	
EPA 200.7	Barium	0.0518	mg/L	0.0020	0.0019		X419008	NMS	05/10/24 12:06	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X419008	NMS	05/10/24 12:06	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X419008	NMS	05/10/24 12:06	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X419008	NMS	05/10/24 12:06	
EPA 200.7	Calcium	16.7	mg/L	0.100	0.069		X419008	NMS	05/10/24 12:06	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X419008	NMS	05/10/24 12:06	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X419008	NMS	05/10/24 12:06	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X419008	NMS	05/10/24 12:06	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X419008	NMS	05/10/24 12:06	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X419008	NMS	05/10/24 12:06	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X419008	NMS	05/10/24 12:06	
EPA 200.7	Magnesium	3.50	mg/L	0.500	0.090		X419008	NMS	05/10/24 12:06	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X419008	NMS	05/10/24 12:06	
EPA 200.7	Molybdenum	0.0103	mg/L	0.0080	0.0034		X419008	NMS	05/10/24 12:06	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X419008	NMS	05/10/24 12:06	
EPA 200.7	Potassium	1.93	mg/L	0.50	0.18		X419008	NMS	05/10/24 12:06	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X419008	NMS	05/10/24 12:06	
EPA 200.7	Sodium	6.26	mg/L	0.50	0.12		X419008	NMS	05/10/24 12:06	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X419008	NMS	05/10/24 12:06	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X419008	NMS	05/10/24 12:06	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X418295	SMU	05/10/24 16:48	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X418295	SMU	05/10/24 16:48	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X418295	SMU	05/10/24 16:48	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X418295	SMU	05/10/24 16:48	
EPA 200.8	Uranium	0.000109	mg/L	0.000100	0.000052		X418295	SMU	05/10/24 16:48	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X419148	MAC	05/14/24 12:49	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X418274	DD	05/06/24 13:33	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X419004	DD	05/07/24 09:15	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X418240	DD	05/03/24 08:58	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X418219	DD	05/02/24 11:14	
SM 2310 B	Acidity to pH 8.3	-34.6	mg/L as CaCO3	10.0			X418258	MWD	05/03/24 12:34	
SM 2320 B	Total Alkalinity	31.1	mg/L as CaCO3	1.0			X418228	MWD	05/02/24 11:00	
SM 2320 B	Bicarbonate	31.1	mg/L as CaCO3	1.0			X418228	MWD	05/02/24 11:00	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X418228	MWD	05/02/24 11:00	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X418228	MWD	05/02/24 11:00	
SM 2540 C	Total Diss. Solids	98	mg/L	10			X418215	TJL	05/03/24 14:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X418216	TJL	05/03/24 15:50	
SM 4500 H B	pH @16.8°C	6.7	pH Units				X418228	MWD	05/02/24 11:00	H5

SVL holds the following certifications:

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

Work



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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: X4E0006 Reported: 15-May-24 13:40

Client Sample ID: **CRMW-5D**
SVL Sample ID: **X4E0006-02 (Ground Water)**

Sampled: 30-Apr-24 09:00
Received: 01-May-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	7.13	mg/L	0.20	0.02		X418197	RS	05/01/24 15:21	
EPA 300.0	Fluoride	2.48	mg/L	0.100	0.017		X418197	RS	05/01/24 15:21	
EPA 300.0	Nitrate as N	0.108	mg/L	0.050	0.013		X418197	RS	05/01/24 15:21	
EPA 300.0	Nitrate+Nitrite as N	0.108	mg/L	0.100	0.044		X418197	RS	05/01/24 15:21	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X418197	RS	05/01/24 15:21	
EPA 300.0	Sulfate as SO4	29.9	mg/L	0.30	0.18		X418197	RS	05/01/24 15:21	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1.43 meq/L	Anion Sum: 1.58 meq/L	C/A Balance: -4.99 %	Calculated TDS: 87	TDS/cTDS: 1.12

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

Kathryn Salter
Project Manager



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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: **X4E0006**

Reported: 15-May-24 13:40

Client Sample ID: **CRMW-5C**

Sampled: 30-Apr-24 09:47

Received: 01-May-24

Sampled By: PB

SVL Sample ID: **X4E0006-03 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	18.2	mg/L	0.100	0.069		X419017	SMU	05/07/24 13:32	
EPA 200.7	Magnesium	3.09	mg/L	0.500	0.090		X419017	SMU	05/07/24 13:32	
EPA 200.7	Potassium	2.35	mg/L	0.50	0.18		X419017	SMU	05/07/24 13:32	
SM 2340 B	Hardness (as CaCO3)	59.2	mg/L	2.31	0.543		N/A		05/10/24 12:25	
Metals (Dissolved)										
EPA 200.7	Aluminum	0.104	mg/L	0.080	0.054		X419008	NMS	05/10/24 12:25	
EPA 200.7	Barium	0.0074	mg/L	0.0020	0.0019		X419008	NMS	05/10/24 12:25	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X419008	NMS	05/10/24 12:25	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X419008	NMS	05/10/24 12:25	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X419008	NMS	05/10/24 12:25	
EPA 200.7	Calcium	18.6	mg/L	0.100	0.069		X419008	NMS	05/10/24 12:25	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X419008	NMS	05/10/24 12:25	
EPA 200.7	Cobalt	0.0064	mg/L	0.0060	0.0046		X419008	NMS	05/10/24 12:25	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X419008	NMS	05/10/24 12:25	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X419008	NMS	05/10/24 12:25	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X419008	NMS	05/10/24 12:25	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X419008	NMS	05/10/24 12:25	
EPA 200.7	Magnesium	3.65	mg/L	0.500	0.090		X419008	NMS	05/10/24 12:25	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X419008	NMS	05/10/24 12:25	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X419008	NMS	05/10/24 12:25	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X419008	NMS	05/10/24 12:25	
EPA 200.7	Potassium	2.33	mg/L	0.50	0.18		X419008	NMS	05/10/24 12:25	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X419008	NMS	05/10/24 12:25	
EPA 200.7	Sodium	7.13	mg/L	0.50	0.12		X419008	NMS	05/10/24 12:25	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X419008	NMS	05/10/24 12:25	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X419008	NMS	05/10/24 12:25	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X418295	SMU	05/10/24 16:55	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X418295	SMU	05/10/24 16:55	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X418295	SMU	05/10/24 16:55	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X418295	SMU	05/10/24 16:55	
EPA 200.8	Uranium	0.000328	mg/L	0.000100	0.000052		X418295	SMU	05/10/24 16:55	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X419148	MAC	05/14/24 12:51	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X418274	DD	05/06/24 13:35	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X419004	DD	05/07/24 09:18	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X418240	DD	05/03/24 09:00	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X418219	DD	05/02/24 11:16	
SM 2310 B	Acidity to pH 8.3	-34.6	mg/L as CaCO3	10.0			X418258	MWD	05/03/24 12:34	
SM 2320 B	Total Alkalinity	40.1	mg/L as CaCO3	1.0			X418228	MWD	05/02/24 11:06	
SM 2320 B	Bicarbonate	40.1	mg/L as CaCO3	1.0			X418228	MWD	05/02/24 11:06	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X418228	MWD	05/02/24 11:06	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X418228	MWD	05/02/24 11:06	
SM 2540 C	Total Diss. Solids	115	mg/L	10			X418215	TJL	05/03/24 14:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X418216	TJL	05/03/24 15:50	
SM 4500 H B	pH @16.9°C	6.9	pH Units				X418228	MWD	05/02/24 11:06	H5

SVL holds the following certifications:

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

Work



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Kellogg, ID 83837-0929
(208) 784-1258
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Newmont - Cripple Creek & Victor	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4E0006
Victor, CO 80860	Reported: 15-May-24 13:40

Client Sample ID: CRMW-5C
SVL Sample ID: X4E0006-03 (Ground Water)

Sampled: 30-Apr-24 09:47
Received: 01-May-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	5.44	mg/L	0.20	0.02		X418197	RS	05/01/24 13:31	
EPA 300.0	Fluoride	2.86	mg/L	0.100	0.017		X418197	RS	05/01/24 13:31	
EPA 300.0	Nitrate as N	0.190	mg/L	0.050	0.013		X418197	RS	05/01/24 13:31	
EPA 300.0	Nitrate+Nitrite as N	0.190	mg/L	0.100	0.044		X418197	RS	05/01/24 13:31	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X418197	RS	05/01/24 13:31	
EPA 300.0	Sulfate as SO4	26.9	mg/L	0.30	0.18		X418197	RS	05/01/24 13:31	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1.55 meq/L	Anion Sum: 1.68 meq/L	C/A Balance: -3.96 %	Calculated TDS: 91	TDS/cTDS: 1.26

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

Kathryn Salter

Kathryn Salter
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0006**

Reported: 15-May-24 13:40

Client Sample ID: **CRMW-5B**

Sampled: 30-Apr-24 10:33

Received: 01-May-24

Sampled By: PB

SVL Sample ID: **X4E0006-04 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes

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

EPA 200.7	Calcium	41.0	mg/L	0.100	0.069		X419017	SMU	05/07/24 13:36	
EPA 200.7	Magnesium	5.04	mg/L	0.500	0.090		X419017	SMU	05/07/24 13:36	
EPA 200.7	Potassium	2.79	mg/L	0.50	0.18		X419017	SMU	05/07/24 13:36	
SM 2340 B	Hardness (as CaCO3)	132	mg/L	2.31	0.543		N/A		05/07/24 13:36	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X419008	NMS	05/10/24 12:29	
EPA 200.7	Barium	0.0125	mg/L	0.0020	0.0019		X419008	NMS	05/10/24 12:29	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X419008	NMS	05/10/24 12:29	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X419008	NMS	05/10/24 12:29	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X419008	NMS	05/10/24 12:29	
EPA 200.7	Calcium	42.6	mg/L	0.100	0.069		X419008	NMS	05/10/24 12:29	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X419008	NMS	05/10/24 12:29	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X419008	NMS	05/10/24 12:29	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X419008	NMS	05/10/24 12:29	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X419008	NMS	05/10/24 12:29	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X419008	NMS	05/10/24 12:29	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X419008	NMS	05/10/24 12:29	
EPA 200.7	Magnesium	6.28	mg/L	0.500	0.090		X419008	NMS	05/10/24 12:29	
EPA 200.7	Manganese	0.256	mg/L	0.0080	0.0034		X419008	NMS	05/10/24 12:29	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X419008	NMS	05/10/24 12:29	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X419008	NMS	05/10/24 12:29	
EPA 200.7	Potassium	2.96	mg/L	0.50	0.18		X419008	NMS	05/10/24 12:29	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X419008	NMS	05/10/24 12:29	
EPA 200.7	Sodium	9.77	mg/L	0.50	0.12		X419008	NMS	05/10/24 12:29	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X419008	NMS	05/10/24 12:29	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X419008	NMS	05/10/24 12:29	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X418295	SMU	05/10/24 16:58	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X418295	SMU	05/10/24 16:58	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X418295	SMU	05/10/24 16:58	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X418295	SMU	05/10/24 16:58	
EPA 200.8	Uranium	0.00485	mg/L	0.000100	0.000052		X418295	SMU	05/10/24 16:58	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X419148	MAC	05/14/24 12:53	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X418274	DD	05/07/24 11:24	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X419004	DD	05/07/24 09:21	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X418240	DD	05/03/24 09:02	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X418219	DD	05/02/24 11:18	
SM 2310 B	Acidity to pH 8.3	-97.8	mg/L as CaCO3	10.0			X418258	MWD	05/03/24 12:34	
SM 2320 B	Total Alkalinity	89.4	mg/L as CaCO3	1.0			X418228	MWD	05/02/24 11:11	
SM 2320 B	Bicarbonate	89.4	mg/L as CaCO3	1.0			X418228	MWD	05/02/24 11:11	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X418228	MWD	05/02/24 11:11	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X418228	MWD	05/02/24 11:11	
SM 2540 C	Total Diss. Solids	180	mg/L	10			X418215	TJL	05/03/24 14:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X418216	TJL	05/03/24 15:50	
SM 4500 H B	pH @17.1°C	7.5	pH Units				X418228	MWD	05/02/24 11:11	H5

SVL holds the following certifications:

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

Work



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(208) 784-1258
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Newmont - Cripple Creek & Victor	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4E0006
Victor, CO 80860	Reported: 15-May-24 13:40

Client Sample ID: CRMW-5B
SVL Sample ID: X4E0006-04 (Ground Water)

Sampled: 30-Apr-24 10:33
Received: 01-May-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	11.1	mg/L	0.20	0.02		X418197	RS	05/01/24 15:39	
EPA 300.0	Fluoride	2.75	mg/L	0.100	0.017		X418197	RS	05/01/24 15:39	
EPA 300.0	Nitrate as N	0.078	mg/L	0.050	0.013		X418197	RS	05/01/24 15:39	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X418197	RS	05/01/24 15:39	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X418197	RS	05/01/24 15:39	
EPA 300.0	Sulfate as SO4	44.3	mg/L	0.30	0.18		X418197	RS	05/01/24 15:39	

Cation/Anion Balance and TDS Ratios

Cation Sum: 2.98 meq/L	Anion Sum: 3.17 meq/L	C/A Balance: -3.09 %	Calculated TDS: 172	TDS/cTDS: 1.05

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

Kathryn Salter

Kathryn Salter
Project Manager



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(208) 784-1258

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0006**

Reported: 15-May-24 13:40

Client Sample ID: **SGMW-6B**

Sampled: 30-Apr-24 12:05

Received: 01-May-24

Sampled By: PB

SVL Sample ID: **X4E0006-05 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes

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

EPA 200.7	Calcium	450	mg/L	1.00	0.690	10	X419017	SMU	05/07/24 14:53	D2
EPA 200.7	Magnesium	91.1	mg/L	0.500	0.090		X419017	SMU	05/07/24 13:54	
EPA 200.7	Potassium	9.22	mg/L	0.50	0.18		X419017	SMU	05/07/24 13:54	
SM 2340 B	Hardness (as CaCO3)	1560	mg/L	4.56	2.09		N/A		05/07/24 13:54	

Metals (Dissolved)

EPA 200.7	Aluminum	4.82	mg/L	0.080	0.054		X419008	NMS	05/10/24 12:33	
EPA 200.7	Barium	0.0086	mg/L	0.0020	0.0019		X419008	NMS	05/10/24 12:33	
EPA 200.7	Beryllium	0.0985	mg/L	0.00200	0.00080		X419008	NMS	05/10/24 12:33	
EPA 200.7	Boron	0.0946	mg/L	0.0400	0.0078		X419008	NMS	05/10/24 12:33	
EPA 200.7	Cadmium	0.0046	mg/L	0.0020	0.0016		X419008	NMS	05/10/24 12:33	
EPA 200.7	Calcium	478	mg/L	0.100	0.069		X419008	NMS	05/10/24 12:33	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X419008	NMS	05/10/24 12:33	
EPA 200.7	Cobalt	0.0297	mg/L	0.0060	0.0046		X419008	NMS	05/10/24 12:33	
EPA 200.7	Copper	0.0360	mg/L	0.0100	0.0027		X419008	NMS	05/10/24 12:33	
EPA 200.7	Iron	3.85	mg/L	0.100	0.056		X419008	NMS	05/10/24 12:33	
EPA 200.7	Lead	0.0131	mg/L	0.0075	0.0049		X419008	NMS	05/10/24 12:33	
EPA 200.7	Lithium	0.066	mg/L	0.040	0.025		X419008	NMS	05/10/24 12:33	
EPA 200.7	Magnesium	106	mg/L	0.500	0.090		X419008	NMS	05/10/24 12:33	
EPA 200.7	Manganese	10.9	mg/L	0.0080	0.0034		X419008	NMS	05/10/24 12:33	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X419008	NMS	05/10/24 12:33	
EPA 200.7	Nickel	0.149	mg/L	0.0100	0.0048		X419008	NMS	05/10/24 12:33	
EPA 200.7	Potassium	9.14	mg/L	0.50	0.18		X419008	NMS	05/10/24 12:33	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X419008	NMS	05/10/24 12:33	
EPA 200.7	Sodium	73.0	mg/L	0.50	0.12		X419008	NMS	05/10/24 12:33	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X419008	NMS	05/10/24 12:33	
EPA 200.7	Zinc	1.19	mg/L	0.0100	0.0054		X419008	NMS	05/10/24 12:33	
EPA 200.8	Antimony	< 0.0100	mg/L	0.0100	0.00720	10	X418295	SMU	05/13/24 10:46	D1
EPA 200.8	Arsenic	< 0.0100	mg/L	0.0100	0.00210	10	X418295	SMU	05/13/24 10:46	D1
EPA 200.8	Selenium	< 0.0100	mg/L	0.0100	0.00240	10	X418295	SMU	05/13/24 10:46	D1
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X418295	SMU	05/13/24 10:46	D1
EPA 200.8	Uranium	0.0197	mg/L	0.00100	0.000520	10	X418295	SMU	05/13/24 10:46	D1

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X419148	MAC	05/14/24 13:00	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X418274	DD	05/07/24 11:26	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X419004	DD	05/07/24 09:23	
EPA 350.1	Ammonia as N	0.048	mg/L	0.030	0.013		X418240	DD	05/03/24 09:05	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X418219	DD	05/02/24 11:20	
SM 2310 B	Acidity to pH 8.3	-50.4	mg/L as CaCO3	10.0			X418258	MWD	05/03/24 12:34	
SM 2320 B	Total Alkalinity	43.9	mg/L as CaCO3	1.0			X418228	MWD	05/02/24 11:17	
SM 2320 B	Bicarbonate	43.9	mg/L as CaCO3	1.0			X418228	MWD	05/02/24 11:17	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X418228	MWD	05/02/24 11:17	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X418228	MWD	05/02/24 11:17	
SM 2540 C	Total Diss. Solids	2390	mg/L	40			X418215	TJL	05/03/24 14:10	D2
SM 2540 D	Total Susp. Solids	98.0	mg/L	5.0			X418216	TJL	05/03/24 15:50	
SM 4500 H B	pH @17.2°C	5.8	pH Units				X418228	MWD	05/02/24 11:17	H5

SVL holds the following certifications:

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

Work



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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: X4E0006 Reported: 15-May-24 13:40

Client Sample ID: **SGMW-6B**
SVL Sample ID: **X4E0006-05 (Ground Water)**

Sampled: 30-Apr-24 12:05
Received: 01-May-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	134	mg/L	10.0	1.10	50	X418197	RS	05/01/24 17:30	D2
EPA 300.0	Fluoride	10.6	mg/L	5.00	0.850	50	X418197	RS	05/01/24 17:30	D2
EPA 300.0	Nitrate as N	1.19	mg/L	0.050	0.013		X418197	RS	05/01/24 17:11	
EPA 300.0	Nitrate+Nitrite as N	1.19	mg/L	0.100	0.044		X418197	RS	05/01/24 17:11	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X418197	RS	05/01/24 17:11	
EPA 300.0	Sulfate as SO4	1520	mg/L	15.0	9.00	50	X418197	RS	05/01/24 17:30	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 34.5 meq/L	Anion Sum: 36.9 meq/L	C/A Balance: -3.45 %	Calculated TDS: 2341	TDS/cTDS: 1.02

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

Kathryn Salter
Project Manager



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(208) 784-1258

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0006**

Reported: 15-May-24 13:40

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	X419147	14-May-24	U

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

EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X419017	07-May-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X419017	07-May-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X419017	07-May-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X419017	07-May-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X419017	07-May-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X419017	07-May-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X419017	07-May-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X419017	07-May-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X419017	07-May-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X419017	07-May-24	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X419017	07-May-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X419017	07-May-24	
EPA 200.7	Sodium	mg/L	<0.12	0.12	0.50	X419017	07-May-24	U
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X419017	07-May-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X419020	13-May-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X419020	13-May-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X419020	13-May-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X419020	13-May-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X419020	13-May-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X419020	13-May-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X419020	13-May-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X419008	10-May-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X419008	10-May-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X419008	10-May-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X419008	10-May-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X419008	10-May-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X419008	10-May-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X419008	10-May-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X419008	10-May-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X419008	10-May-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X419008	10-May-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X419008	10-May-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X419008	10-May-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X419008	10-May-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X419008	10-May-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X419008	10-May-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X419008	10-May-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X419008	10-May-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X419008	10-May-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X419008	10-May-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X419008	10-May-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X419008	10-May-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X418295	10-May-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X418295	10-May-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X418295	10-May-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X418295	10-May-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X418295	10-May-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X418295	10-May-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X418295	10-May-24	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X418295	10-May-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X418295	10-May-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X418295	10-May-24	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0006**

Reported: 15-May-24 13:40

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	X419148	14-May-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X418274	06-May-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X419004	07-May-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X418240	03-May-24	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X419105	09-May-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X418219	02-May-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X418258	03-May-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X418228	02-May-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X418228	02-May-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X418228	02-May-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X418228	02-May-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X418215	03-May-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X418216	03-May-24	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X418151	01-May-24	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X418269	03-May-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X418197	01-May-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X418197	01-May-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X418197	01-May-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X418197	01-May-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X418197	01-May-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X418197	01-May-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	0.00208	0.00200	104	85 - 115	X419147	14-May-24	

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

EPA 200.7	Barium	mg/L	0.973	1.00	97.3	85 - 115	X419017	07-May-24	
EPA 200.7	Beryllium	mg/L	1.03	1.00	103	85 - 115	X419017	07-May-24	
EPA 200.7	Boron	mg/L	0.958	1.00	95.8	85 - 115	X419017	07-May-24	
EPA 200.7	Calcium	mg/L	19.2	20.0	96	85 - 115	X419017	07-May-24	
EPA 200.7	Chromium	mg/L	0.928	1.00	92.8	85 - 115	X419017	07-May-24	
EPA 200.7	Iron	mg/L	9.34	10.0	93.4	85 - 115	X419017	07-May-24	
EPA 200.7	Magnesium	mg/L	17.9	20.0	89.3	85 - 115	X419017	07-May-24	
EPA 200.7	Manganese	mg/L	0.915	1.00	91.5	85 - 115	X419017	07-May-24	
EPA 200.7	Molybdenum	mg/L	0.931	1.00	93.1	85 - 115	X419017	07-May-24	
EPA 200.7	Nickel	mg/L	0.894	1.00	89.4	85 - 115	X419017	07-May-24	
EPA 200.7	Phosphorus	mg/L	0.971	1.00	97.1	85 - 115	X419017	07-May-24	
EPA 200.7	Potassium	mg/L	19.3	20.0	96.7	85 - 115	X419017	07-May-24	
EPA 200.7	Sodium	mg/L	18.3	19.0	96.2	85 - 115	X419017	07-May-24	
EPA 200.7	Zinc	mg/L	0.923	1.00	92.3	85 - 115	X419017	07-May-24	
EPA 200.8	Antimony	mg/L	0.0242	0.0250	96.9	85 - 115	X419020	13-May-24	
EPA 200.8	Arsenic	mg/L	0.0239	0.0250	95.7	85 - 115	X419020	13-May-24	
EPA 200.8	Cadmium	mg/L	0.0234	0.0250	93.4	85 - 115	X419020	13-May-24	
EPA 200.8	Chromium	mg/L	0.0239	0.0250	95.6	85 - 115	X419020	13-May-24	

SVL holds the following certifications:

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

Work

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0006**

Reported: 15-May-24 13:40

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	0.0250	0.0250	100	85 - 115	X419020	13-May-24	
EPA 200.8	Lead	mg/L	0.0240	0.0250	96.0	85 - 115	X419020	13-May-24	
EPA 200.8	Selenium	mg/L	0.0232	0.0250	93.0	85 - 115	X419020	13-May-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	1.01	1.00	101	85 - 115	X419008	10-May-24	
EPA 200.7	Barium	mg/L	0.993	1.00	99.3	85 - 115	X419008	10-May-24	
EPA 200.7	Beryllium	mg/L	0.989	1.00	98.9	85 - 115	X419008	10-May-24	
EPA 200.7	Boron	mg/L	1.00	1.00	100	85 - 115	X419008	10-May-24	
EPA 200.7	Cadmium	mg/L	0.977	1.00	97.7	85 - 115	X419008	10-May-24	
EPA 200.7	Calcium	mg/L	19.2	20.0	96.0	85 - 115	X419008	10-May-24	
EPA 200.7	Chromium	mg/L	1.00	1.00	100	85 - 115	X419008	10-May-24	
EPA 200.7	Cobalt	mg/L	0.960	1.00	96.0	85 - 115	X419008	10-May-24	
EPA 200.7	Copper	mg/L	0.992	1.00	99.2	85 - 115	X419008	10-May-24	
EPA 200.7	Iron	mg/L	9.68	10.0	96.8	85 - 115	X419008	10-May-24	
EPA 200.7	Lead	mg/L	0.964	1.00	96.4	85 - 115	X419008	10-May-24	
EPA 200.7	Lithium	mg/L	0.976	1.00	97.6	85 - 115	X419008	10-May-24	
EPA 200.7	Magnesium	mg/L	20.8	20.0	104	85 - 115	X419008	10-May-24	
EPA 200.7	Manganese	mg/L	0.991	1.00	99.1	85 - 115	X419008	10-May-24	
EPA 200.7	Molybdenum	mg/L	1.00	1.00	100	85 - 115	X419008	10-May-24	
EPA 200.7	Nickel	mg/L	0.957	1.00	95.7	85 - 115	X419008	10-May-24	
EPA 200.7	Potassium	mg/L	19.1	20.0	95.3	85 - 115	X419008	10-May-24	
EPA 200.7	Silver	mg/L	0.0510	0.0500	102	85 - 115	X419008	10-May-24	
EPA 200.7	Sodium	mg/L	18.4	19.0	96.6	85 - 115	X419008	10-May-24	
EPA 200.7	Vanadium	mg/L	0.999	1.00	99.9	85 - 115	X419008	10-May-24	
EPA 200.7	Zinc	mg/L	0.969	1.00	96.9	85 - 115	X419008	10-May-24	
EPA 200.8	Antimony	mg/L	0.0239	0.0250	95.4	85 - 115	X418295	10-May-24	
EPA 200.8	Arsenic	mg/L	0.0236	0.0250	94.4	85 - 115	X418295	10-May-24	
EPA 200.8	Cadmium	mg/L	0.0242	0.0250	96.8	85 - 115	X418295	10-May-24	
EPA 200.8	Chromium	mg/L	0.0236	0.0250	94.3	85 - 115	X418295	10-May-24	
EPA 200.8	Copper	mg/L	0.0235	0.0250	94.0	85 - 115	X418295	10-May-24	
EPA 200.8	Lead	mg/L	0.0241	0.0250	96.4	85 - 115	X418295	10-May-24	
EPA 200.8	Selenium	mg/L	0.0235	0.0250	94.1	85 - 115	X418295	10-May-24	
EPA 200.8	Silver	mg/L	0.0246	0.0250	98.3	85 - 115	X418295	10-May-24	
EPA 200.8	Thallium	mg/L	0.0238	0.0250	95.4	85 - 115	X418295	10-May-24	
EPA 200.8	Uranium	mg/L	0.0240	0.0250	96.1	85 - 115	X418295	10-May-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00205	0.00200	103	85 - 115	X419148	14-May-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.104	0.100	104	90 - 110	X418274	06-May-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X419004	07-May-24	
EPA 350.1	Ammonia as N	mg/L	1.02	1.00	102	90 - 110	X418240	03-May-24	
EPA 351.2	TKN	mg/L	7.41	8.00	92.7	90 - 110	X419105	09-May-24	
OIA 1677	Cyanide (WAD)	mg/L	0.110	0.100	110	90 - 110	X418219	02-May-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	897	884	102	95.4 - 104	X418258	03-May-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.80	9.93	98.7	96.4 - 105	X418228	02-May-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	96.4 - 105	X418228	02-May-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X418216	03-May-24	
SM 4500 S D	Sulfide	mg/L	0.524	0.500	105	85 - 115	X418151	01-May-24	
Dissolved Classical Chemistry Parameters									
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.102	0.100	102	80 - 120	X418269	03-May-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.05	3.00	102	90 - 110	X418197	01-May-24	

SVL holds the following certifications:

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

Work

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0006**

Reported: 15-May-24 13:40

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	1.97	2.00	98.7	90 - 110	X418197	01-May-24	
EPA 300.0	Nitrate as N	mg/L	2.02	2.00	101	90 - 110	X418197	01-May-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.53	4.50	101	90 - 110	X418197	01-May-24	
EPA 300.0	Nitrite as N	mg/L	2.51	2.50	101	90 - 110	X418197	01-May-24	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.0	105	90 - 110	X418197	01-May-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	X418258 - X4E0006-01	03-May-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	30.3	31.1	2.6	20	X418228 - X4E0006-02	02-May-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	30.3	31.1	2.6	20	X418228 - X4E0006-02	02-May-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X418228 - X4E0006-02	02-May-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X418228 - X4E0006-02	02-May-24	
SM 2540 C	Total Diss. Solids	mg/L	195	180	8.0	10	X418215 - X4E0006-04	03-May-24	
SM 2540 C	Total Diss. Solids	mg/L	298	293	1.7	10	X418215 - X4E0009-04	03-May-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X418216 - X4E0006-04	03-May-24	
SM 2540 D	Total Susp. Solids	mg/L	7.0	6.0	15.4	10	X418216 - X4E0009-04	03-May-24	D1,R2B
SM 4500 H B	pH @16.6°C	pH Units	6.7	6.7	1.2	20	X418228 - X4E0006-02	02-May-24	
SM 4500-O-G	Dissolved Oxygen	mg/L	6.4	6.3	1.6	20	X418253 - X4E0006-01	02-May-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	0.00205	<0.000093	0.00200	103	70 - 130	X419147 - X4E0073-05	14-May-24	
EPA 245.1	Mercury	mg/L	0.00207	<0.000093	0.00200	104	70 - 130	X419147 - X4E0073-06	14-May-24	

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

EPA 200.7	Barium	mg/L	1.04	0.0395	1.00	100	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Barium	mg/L	1.00	0.0124	1.00	99.0	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Beryllium	mg/L	1.06	<0.00200	1.00	106	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Beryllium	mg/L	1.07	<0.00200	1.00	107	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	101	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Boron	mg/L	1.04	<0.0400	1.00	103	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Calcium	mg/L	41.2	21.4	20.0	99	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Calcium	mg/L	118	98.6	20.0	98	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Chromium	mg/L	0.967	<0.0060	1.00	96.7	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Chromium	mg/L	0.986	0.0132	1.00	97.3	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Iron	mg/L	10.2	0.645	10.0	95.3	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Iron	mg/L	44.2	35.3	10.0	89.0	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Magnesium	mg/L	23.2	4.66	20.0	92.5	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Magnesium	mg/L	24.2	5.73	20.0	92.2	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Manganese	mg/L	0.982	0.0229	1.00	95.9	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Manganese	mg/L	2.33	1.37	1.00	96.5	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Molybdenum	mg/L	0.982	<0.0080	1.00	97.9	70 - 130	X419017 - X4E0006-01	07-May-24	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0006**

Reported: 15-May-24 13:40

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.7	Molybdenum	mg/L	0.994	<0.0080	1.00	99.4	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Nickel	mg/L	0.930	<0.0100	1.00	93.0	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Nickel	mg/L	1.20	0.238	1.00	96.5	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Phosphorus	mg/L	1.05	<0.050	1.00	103	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Phosphorus	mg/L	1.31	0.268	1.00	104	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Potassium	mg/L	21.7	2.06	20.0	98.4	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Potassium	mg/L	20.4	<0.50	20.0	102	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Sodium	mg/L	27.7	9.31	19.0	96.7	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Sodium	mg/L	20.4	0.97	19.0	102	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Zinc	mg/L	0.964	<0.0100	1.00	96.4	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Zinc	mg/L	4.20	3.31	1.00	89.2	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.8	Antimony	mg/L	0.0243	<0.00100	0.0250	97.0	70 - 130	X419020 - X4E0026-01	13-May-24	
EPA 200.8	Antimony	mg/L	0.106	0.0794	0.0250	107	70 - 130	X419020 - X4E0005-01	13-May-24	D1
EPA 200.8	Arsenic	mg/L	0.0260	0.00143	0.0250	98.3	70 - 130	X419020 - X4E0026-01	13-May-24	
EPA 200.8	Arsenic	mg/L	0.232	0.210	0.0250	89.8	70 - 130	X419020 - X4E0005-01	13-May-24	D1
EPA 200.8	Cadmium	mg/L	0.0237	<0.000100	0.0250	94.8	70 - 130	X419020 - X4E0026-01	13-May-24	
EPA 200.8	Cadmium	mg/L	0.0248	<0.000500	0.0250	99.2	70 - 130	X419020 - X4E0005-01	13-May-24	D1
EPA 200.8	Chromium	mg/L	0.0247	<0.00100	0.0250	97.8	70 - 130	X419020 - X4E0026-01	13-May-24	
EPA 200.8	Chromium	mg/L	0.0185	<0.00500	0.0250	73.9	70 - 130	X419020 - X4E0005-01	13-May-24	D1
EPA 200.8	Copper	mg/L	0.0265	<0.00040	0.0250	104	70 - 130	X419020 - X4E0026-01	13-May-24	
EPA 200.8	Copper	mg/L	0.0344	0.0142	0.0250	80.7	70 - 130	X419020 - X4E0005-01	13-May-24	D1
EPA 200.8	Lead	mg/L	0.0242	<0.00020	0.0250	96.8	70 - 130	X419020 - X4E0026-01	13-May-24	
EPA 200.8	Lead	mg/L	0.0252	0.00188	0.0250	93.1	70 - 130	X419020 - X4E0005-01	13-May-24	D1
EPA 200.8	Selenium	mg/L	0.0226	<0.00100	0.0250	90.3	70 - 130	X419020 - X4E0026-01	13-May-24	
EPA 200.8	Selenium	mg/L	0.0187	<0.00500	0.0250	74.6	70 - 130	X419020 - X4E0005-01	13-May-24	D1,M4

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.17	0.186	1.00	98.6	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Aluminum	mg/L	13.8	12.9	1.00	90.5	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Barium	mg/L	1.06	0.0387	1.00	102	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Barium	mg/L	1.00	<0.0020	1.00	100	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Beryllium	mg/L	0.981	<0.00200	1.00	98.1	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Beryllium	mg/L	1.03	0.0184	1.00	102	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	101	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Boron	mg/L	1.15	0.114	1.00	104	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Cadmium	mg/L	0.977	<0.0020	1.00	97.7	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Cadmium	mg/L	1.03	0.0232	1.00	101	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Calcium	mg/L	40.8	21.7	20.0	95.3	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Calcium	mg/L	512	501	20.0	0.30R>S	70 - 130	X419008 - X4E0072-03	10-May-24	M3
EPA 200.7	Chromium	mg/L	1.01	<0.0060	1.00	101	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Cobalt	mg/L	0.969	<0.0060	1.00	96.3	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Cobalt	mg/L	1.83	0.841	1.00	99.2	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Copper	mg/L	0.994	<0.0100	1.00	99.4	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Copper	mg/L	1.76	0.653	1.00	111	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Iron	mg/L	10.1	0.238	10.0	98.5	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Iron	mg/L	192	183	10.0	95.9	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Lead	mg/L	0.970	<0.0075	1.00	97.0	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Lead	mg/L	1.00	0.0187	1.00	98.6	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Lithium	mg/L	0.972	<0.040	1.00	97.2	70 - 130	X419008 - X4E0006-01	10-May-24	

SVL holds the following certifications:

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

Work

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0006**

Reported: 15-May-24 13:40

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Lithium	mg/L	1.23	0.231	1.00	100	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Magnesium	mg/L	26.7	5.48	20.0	106	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Magnesium	mg/L	225	206	20.0	98.8	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Manganese	mg/L	1.01	0.0186	1.00	99.0	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Manganese	mg/L	167	153	1.00	0.30R>S	70 - 130	X419008 - X4E0072-03	10-May-24	D2,M4
EPA 200.7	Molybdenum	mg/L	0.988	<0.0080	1.00	98.8	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Molybdenum	mg/L	0.993	<0.0080	1.00	99.3	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Nickel	mg/L	0.961	<0.0100	1.00	96.1	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Nickel	mg/L	1.32	0.331	1.00	98.9	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Potassium	mg/L	21.6	2.14	20.0	97.4	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Potassium	mg/L	26.9	6.44	20.0	102	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Silver	mg/L	0.0504	<0.0050	0.0500	101	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Silver	mg/L	0.0549	<0.0050	0.0500	105	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Sodium	mg/L	28.1	9.58	19.0	97.2	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Sodium	mg/L	98.4	80.2	19.0	96.0	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Vanadium	mg/L	1.00	<0.0050	1.00	100	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Vanadium	mg/L	0.998	<0.0050	1.00	99.8	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Zinc	mg/L	0.982	<0.0100	1.00	98.2	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Zinc	mg/L	128	120	1.00	0.30R>S	70 - 130	X419008 - X4E0072-03	10-May-24	D2,M4
EPA 200.8	Antimony	mg/L	0.0252	<0.00100	0.0250	96.9	70 - 130	X418295 - X4D0517-01	10-May-24	
EPA 200.8	Antimony	mg/L	0.0251	<0.00100	0.0250	101	70 - 130	X418295 - X4E0017-01	10-May-24	
EPA 200.8	Arsenic	mg/L	0.0243	<0.00100	0.0250	97.2	70 - 130	X418295 - X4D0517-01	10-May-24	
EPA 200.8	Arsenic	mg/L	0.0189	0.00131	0.0250	70.3	70 - 130	X418295 - X4E0017-01	10-May-24	
EPA 200.8	Cadmium	mg/L	0.0239	<0.000100	0.0250	95.5	70 - 130	X418295 - X4D0517-01	10-May-24	
EPA 200.8	Cadmium	mg/L	0.0847	0.0605	0.0250	96.6	70 - 130	X418295 - X4E0017-01	10-May-24	
EPA 200.8	Chromium	mg/L	0.0243	0.00100	0.0250	93.4	70 - 130	X418295 - X4D0517-01	10-May-24	
EPA 200.8	Chromium	mg/L	0.0178	<0.00100	0.0250	69.8	70 - 130	X418295 - X4E0017-01	10-May-24	M2
EPA 200.8	Copper	mg/L	0.0240	0.00047	0.0250	94.0	70 - 130	X418295 - X4D0517-01	10-May-24	
EPA 200.8	Copper	mg/L	47.7	47.4	0.0250	0.30R>S	70 - 130	X418295 - X4E0017-01	13-May-24	D2,M4
EPA 200.8	Lead	mg/L	0.0230	<0.00020	0.0250	92.1	70 - 130	X418295 - X4D0517-01	10-May-24	
EPA 200.8	Lead	mg/L	0.0229	0.00095	0.0250	87.7	70 - 130	X418295 - X4E0017-01	10-May-24	
EPA 200.8	Selenium	mg/L	0.0254	<0.00100	0.0250	99.0	70 - 130	X418295 - X4D0517-01	10-May-24	
EPA 200.8	Selenium	mg/L	0.0187	0.00149	0.0250	68.8	70 - 130	X418295 - X4E0017-01	10-May-24	M2
EPA 200.8	Silver	mg/L	0.0231	<0.00008	0.0250	92.2	70 - 130	X418295 - X4D0517-01	10-May-24	
EPA 200.8	Silver	mg/L	0.0234	<0.00008	0.0250	93.6	70 - 130	X418295 - X4E0017-01	10-May-24	
EPA 200.8	Thallium	mg/L	0.0229	<0.000200	0.0250	91.7	70 - 130	X418295 - X4D0517-01	10-May-24	
EPA 200.8	Thallium	mg/L	0.0218	<0.000200	0.0250	87.4	70 - 130	X418295 - X4E0017-01	10-May-24	
EPA 200.8	Uranium	mg/L	0.0239	0.000442	0.0250	93.7	70 - 130	X418295 - X4D0517-01	10-May-24	
EPA 200.8	Uranium	mg/L	0.0380	0.0151	0.0250	91.8	70 - 130	X418295 - X4E0017-01	10-May-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00217	<0.000200	0.00200	108	70 - 130	X419148 - X4E0006-01	14-May-24	
EPA 245.1	Mercury	mg/L	0.0119	0.00973	0.00200	107	70 - 130	X419148 - X4E0041-02	14-May-24	D2

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.102	<0.0050	0.100	102	79 - 121	X418274 - X4D0346-12	06-May-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X419004 - X4D0500-01	07-May-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X419004 - X4E0006-01	07-May-24	
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	101	90 - 110	X418240 - X4D0500-01	03-May-24	
EPA 350.1	Ammonia as N	mg/L	1.09	<0.030	1.00	109	90 - 110	X418240 - X4E0006-01	03-May-24	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0006**

Reported: 15-May-24 13:40

Quality Control - MATRIX SPIKE Data (Continued)

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

Classical Chemistry Parameters (Continued)

EPA 351.2	TKN	mg/L	6.82	<0.50	8.00	85.3	90 - 110	X419105 - X4E0041-02	09-May-24	M2
EPA 351.2	TKN	mg/L	7.16	0.76	8.00	79.9	90 - 110	X419105 - X4E0041-04	09-May-24	M2
OIA 1677	Cyanide (WAD)	mg/L	0.112	<0.0050	0.100	110	82 - 118	X418219 - X4D0500-01	02-May-24	
SM 4500 S D	Sulfide	mg/L	0.209	<0.050	0.200	105	75 - 125	X418151 - X4D0478-01	01-May-24	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0186	<0.0050	0.0200	93.1	75 - 125	X418269 - X4D0447-01	03-May-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	8.66	5.44	3.00	107	90 - 110	X418197 - X4E0006-03	01-May-24	
EPA 300.0	Chloride	mg/L	3.27	0.23	3.00	102	90 - 110	X418197 - X4E0013-01	01-May-24	
EPA 300.0	Fluoride	mg/L	4.93	2.86	2.00	103	90 - 110	X418197 - X4E0006-03	01-May-24	
EPA 300.0	Fluoride	mg/L	2.02	<0.100	2.00	99.3	90 - 110	X418197 - X4E0013-01	01-May-24	
EPA 300.0	Nitrate as N	mg/L	2.21	0.190	2.00	101	90 - 110	X418197 - X4E0006-03	01-May-24	
EPA 300.0	Nitrate as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X418197 - X4E0013-01	01-May-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.25	0.190	4.00	101	90 - 110	X418197 - X4E0006-03	01-May-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.07	<0.100	4.00	102	90 - 110	X418197 - X4E0013-01	01-May-24	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X418197 - X4E0006-03	01-May-24	
EPA 300.0	Nitrite as N	mg/L	2.05	<0.050	2.00	102	90 - 110	X418197 - X4E0013-01	01-May-24	
EPA 300.0	Sulfate as SO4	mg/L	36.9	26.9	10.0	100	90 - 110	X418197 - X4E0006-03	01-May-24	
EPA 300.0	Sulfate as SO4	mg/L	12.1	1.57	10.0	105	90 - 110	X418197 - X4E0013-01	01-May-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	0.00204	0.00205	0.00200	0.4	20	102	X419147 - X4E0073-05	

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

EPA 200.7	Barium	mg/L	1.02	1.04	1.00	1.9	20	98.1	X419017 - X4E0006-01	
EPA 200.7	Beryllium	mg/L	1.05	1.06	1.00	0.4	20	105	X419017 - X4E0006-01	
EPA 200.7	Boron	mg/L	1.02	1.02	1.00	0.2	20	101	X419017 - X4E0006-01	
EPA 200.7	Calcium	mg/L	41.3	41.2	20.0	0.0	20	99	X419017 - X4E0006-01	
EPA 200.7	Chromium	mg/L	0.963	0.967	1.00	0.4	20	96.3	X419017 - X4E0006-01	
EPA 200.7	Iron	mg/L	10.2	10.2	10.0	0.1	20	95.4	X419017 - X4E0006-01	
EPA 200.7	Magnesium	mg/L	23.0	23.2	20.0	0.8	20	91.5	X419017 - X4E0006-01	
EPA 200.7	Manganese	mg/L	0.959	0.982	1.00	2.4	20	93.6	X419017 - X4E0006-01	
EPA 200.7	Molybdenum	mg/L	0.983	0.982	1.00	0.1	20	98.0	X419017 - X4E0006-01	
EPA 200.7	Nickel	mg/L	0.930	0.930	1.00	0.0	20	93.0	X419017 - X4E0006-01	
EPA 200.7	Phosphorus	mg/L	1.04	1.05	1.00	1.0	20	102	X419017 - X4E0006-01	
EPA 200.7	Potassium	mg/L	21.8	21.7	20.0	0.3	20	98.8	X419017 - X4E0006-01	
EPA 200.7	Sodium	mg/L	27.6	27.7	19.0	0.2	20	96.4	X419017 - X4E0006-01	
EPA 200.7	Zinc	mg/L	0.964	0.964	1.00	0.1	20	96.4	X419017 - X4E0006-01	
EPA 200.8	Antimony	mg/L	0.103	0.106	0.0250	2.5	20	96.6	X419020 - X4E0005-01	D1
EPA 200.8	Arsenic	mg/L	0.231	0.232	0.0250	0.3	20	86.6	X419020 - X4E0005-01	D1
EPA 200.8	Cadmium	mg/L	0.0238	0.0248	0.0250	4.3	20	95.1	X419020 - X4E0005-01	D1
EPA 200.8	Chromium	mg/L	0.0185	0.0185	0.0250	0.0	20	73.9	X419020 - X4E0005-01	D1
EPA 200.8	Copper	mg/L	0.0344	0.0344	0.0250	0.1	20	80.9	X419020 - X4E0005-01	D1
EPA 200.8	Lead	mg/L	0.0246	0.0252	0.0250	2.3	20	90.8	X419020 - X4E0005-01	D1
EPA 200.8	Selenium	mg/L	0.0136	0.0187	0.0250	31.0	20	54.6	X419020 - X4E0005-01	D1,M4



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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: **X4E0006**

Reported: 15-May-24 13:40

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	1.19	1.17	1.00	1.9	20	101	X419008 - X4E0006-01	
EPA 200.7	Barium	mg/L	1.07	1.06	1.00	1.6	20	103	X419008 - X4E0006-01	
EPA 200.7	Beryllium	mg/L	0.977	0.981	1.00	0.5	20	97.7	X419008 - X4E0006-01	
EPA 200.7	Boron	mg/L	1.04	1.02	1.00	1.5	20	102	X419008 - X4E0006-01	
EPA 200.7	Cadmium	mg/L	0.986	0.977	1.00	0.9	20	98.6	X419008 - X4E0006-01	
EPA 200.7	Calcium	mg/L	41.6	40.8	20.0	2.1	20	99.7	X419008 - X4E0006-01	
EPA 200.7	Chromium	mg/L	1.02	1.01	1.00	0.8	20	102	X419008 - X4E0006-01	
EPA 200.7	Cobalt	mg/L	0.981	0.969	1.00	1.2	20	97.5	X419008 - X4E0006-01	
EPA 200.7	Copper	mg/L	0.997	0.994	1.00	0.3	20	99.7	X419008 - X4E0006-01	
EPA 200.7	Iron	mg/L	10.2	10.1	10.0	1.0	20	99.5	X419008 - X4E0006-01	
EPA 200.7	Lead	mg/L	0.983	0.970	1.00	1.4	20	98.3	X419008 - X4E0006-01	
EPA 200.7	Lithium	mg/L	0.976	0.972	1.00	0.4	20	97.6	X419008 - X4E0006-01	
EPA 200.7	Magnesium	mg/L	27.5	26.7	20.0	2.9	20	110	X419008 - X4E0006-01	
EPA 200.7	Manganese	mg/L	1.03	1.01	1.00	1.9	20	101	X419008 - X4E0006-01	
EPA 200.7	Molybdenum	mg/L	1.00	0.988	1.00	1.2	20	100	X419008 - X4E0006-01	
EPA 200.7	Nickel	mg/L	0.971	0.961	1.00	1.1	20	97.1	X419008 - X4E0006-01	
EPA 200.7	Potassium	mg/L	21.8	21.6	20.0	0.9	20	98.4	X419008 - X4E0006-01	
EPA 200.7	Silver	mg/L	0.0512	0.0504	0.0500	1.5	20	102	X419008 - X4E0006-01	
EPA 200.7	Sodium	mg/L	28.3	28.1	19.0	0.9	20	98.6	X419008 - X4E0006-01	
EPA 200.7	Vanadium	mg/L	1.01	1.00	1.00	0.8	20	101	X419008 - X4E0006-01	
EPA 200.7	Zinc	mg/L	1.00	0.982	1.00	2.1	20	100	X419008 - X4E0006-01	
EPA 200.8	Antimony	mg/L	0.0251	0.0252	0.0250	0.2	20	96.7	X418295 - X4D0517-01	
EPA 200.8	Arsenic	mg/L	0.0241	0.0243	0.0250	0.7	20	96.5	X418295 - X4D0517-01	
EPA 200.8	Cadmium	mg/L	0.0240	0.0239	0.0250	0.6	20	96.1	X418295 - X4D0517-01	
EPA 200.8	Chromium	mg/L	0.0247	0.0243	0.0250	1.3	20	94.6	X418295 - X4D0517-01	
EPA 200.8	Copper	mg/L	0.0241	0.0240	0.0250	0.6	20	94.5	X418295 - X4D0517-01	
EPA 200.8	Lead	mg/L	0.0229	0.0230	0.0250	0.3	20	91.8	X418295 - X4D0517-01	
EPA 200.8	Selenium	mg/L	0.0255	0.0254	0.0250	0.4	20	99.4	X418295 - X4D0517-01	
EPA 200.8	Silver	mg/L	0.0233	0.0231	0.0250	0.9	20	93.1	X418295 - X4D0517-01	
EPA 200.8	Thallium	mg/L	0.0229	0.0229	0.0250	0.2	20	91.5	X418295 - X4D0517-01	
EPA 200.8	Uranium	mg/L	0.0238	0.0239	0.0250	0.2	20	93.5	X418295 - X4D0517-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00216	0.00217	0.00200	0.3	20	108	X419148 - X4E0006-01	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.100	0.102	0.100	2.0	11	100	X418274 - X4D0346-12	
EPA 335.4	Cyanide (total)	mg/L	0.0990	0.101	0.100	1.6	20	99.0	X419004 - X4D0500-01	
EPA 350.1	Ammonia as N	mg/L	1.05	1.01	1.00	3.6	20	105	X418240 - X4D0500-01	
EPA 351.2	TKN	mg/L	7.17	6.82	8.00	5.0	20	89.6	X419105 - X4E0041-02	M2
OIA 1677	Cyanide (WAD)	mg/L	0.107	0.112	0.100	4.6	11	105	X418219 - X4D0500-01	
SM 4500 S D	Sulfide	mg/L	0.181	0.209	0.200	14.4	20	90.5	X418151 - X4D0478-01	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0183	0.0186	0.0200	1.6	20	91.7	X418269 - X4D0447-01	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.31	3.27	3.00	1.2	20	103	X418197 - X4E0013-01	
EPA 300.0	Fluoride	mg/L	2.02	2.02	2.00	0.1	20	99.4	X418197 - X4E0013-01	
EPA 300.0	Nitrate as N	mg/L	2.04	2.02	2.00	1.3	20	102	X418197 - X4E0013-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.11	4.07	4.00	1.0	20	103	X418197 - X4E0013-01	
EPA 300.0	Nitrite as N	mg/L	2.06	2.05	2.00	0.7	20	103	X418197 - X4E0013-01	
EPA 300.0	Sulfate as SO4	mg/L	12.1	12.1	10.0	0.1	20	105	X418197 - X4E0013-01	

SVL holds the following certifications:

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

Work

Page 19 of 20



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Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0006**

Reported: 15-May-24 13:40

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
H3	Sample was received and/or analysis requested past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
U	Less than 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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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0496**

Reported: 14-Jun-24 12:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
VIN-2B	X4E0496-01	Ground Water	29-May-24 13:15	PB	30-May-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.

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

Case Narrative: X4E0496

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: **X4E0496**

Reported: 14-Jun-24 12:56

Client Sample ID: **VIN-2B**

Sampled: 29-May-24 13:15

Received: 30-May-24

Sampled By: PB

SVL Sample ID: **X4E0496-01 (Ground Water)**
Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	194	mg/L	0.100	0.069		X423016	NMS	06/06/24 13:00	
EPA 200.7	Magnesium	52.8	mg/L	0.500	0.090		X423016	NMS	06/06/24 13:00	
EPA 200.7	Potassium	2.07	mg/L	0.50	0.18		X423016	NMS	06/06/24 13:00	
SM 2340 B	Hardness (as CaCO3)	702	mg/L	2.31	0.543		N/A		06/07/24 13:35	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X423004	NMS	06/07/24 13:35	
EPA 200.7	Barium	0.0080	mg/L	0.0020	0.0019		X423004	NMS	06/07/24 13:35	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X423004	NMS	06/07/24 13:35	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X423004	NMS	06/07/24 13:35	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X423004	NMS	06/07/24 13:35	
EPA 200.7	Calcium	205	mg/L	0.100	0.069		X423004	NMS	06/07/24 13:35	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X423004	NMS	06/07/24 13:35	
EPA 200.7	Cobalt	0.0104	mg/L	0.0060	0.0046		X423004	NMS	06/07/24 13:35	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X423004	NMS	06/07/24 13:35	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X423004	NMS	06/07/24 13:35	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X423004	NMS	06/07/24 13:35	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X423004	NMS	06/07/24 13:35	
EPA 200.7	Magnesium	54.6	mg/L	0.500	0.090		X423004	NMS	06/07/24 13:35	
EPA 200.7	Manganese	3.04	mg/L	0.0080	0.0034		X423004	NMS	06/07/24 13:35	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X423004	NMS	06/07/24 13:35	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X423004	NMS	06/07/24 13:35	
EPA 200.7	Potassium	1.95	mg/L	0.50	0.18		X423004	NMS	06/07/24 13:35	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X423004	NMS	06/07/24 13:35	
EPA 200.7	Sodium	33.9	mg/L	0.50	0.12		X423004	NMS	06/07/24 13:35	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X423004	NMS	06/07/24 13:35	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X423004	NMS	06/07/24 13:35	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X423062	SMU	06/14/24 08:35	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X423062	SMU	06/14/24 08:35	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X423062	SMU	06/14/24 08:35	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X423062	SMU	06/14/24 08:35	
EPA 200.8	Uranium	0.000146	mg/L	0.000100	0.000052		X423062	SMU	06/14/24 08:35	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X423277	MAC	06/10/24 13:28	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X423066	DD	06/04/24 15:14	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X423197	JPM	06/07/24 12:19	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X423071	DD	06/05/24 11:57	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X424024	DD	06/11/24 09:57	
SM 2310 B	Acidity to pH 8.3	-65.4	mg/L as CaCO3	10.0			X423192	MWD	06/06/24 09:12	
SM 2320 B	Total Alkalinity	67.2	mg/L as CaCO3	1.0			X423012	MWD	06/03/24 17:21	
SM 2320 B	Bicarbonate	67.2	mg/L as CaCO3	1.0			X423012	MWD	06/03/24 17:21	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X423012	MWD	06/03/24 17:21	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X423012	MWD	06/03/24 17:21	
SM 2540 C	Total Diss. Solids	1050	mg/L	10			X423025	TJL	06/04/24 13:55	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X423026	TJL	06/04/24 14:25	
SM 4500 H B	pH @20.1°C	7.3	pH Units				X423012	MWD	06/03/24 17:21	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 9



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Kellogg, ID 83837-0929
(208) 784-1258
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Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4E0496 Reported: 14-Jun-24 12:56

Client Sample ID: VIN-2B
SVL Sample ID: X4E0496-01 (Ground Water)

Sampled: 29-May-24 13:15
Received: 30-May-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	11.5	mg/L	0.20	0.02		X422155	RS	05/30/24 18:52	
EPA 300.0	Fluoride	0.151	mg/L	0.100	0.017		X422155	RS	05/30/24 18:52	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X422155	RS	05/30/24 18:52	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X422155	RS	05/30/24 19:08	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X422155	RS	05/30/24 18:52	
EPA 300.0	Sulfate as SO4	744	mg/L	15.0	9.00	50	X422155	RS	05/30/24 19:08	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 15.7 meq/L	Anion Sum: 17.2 meq/L	C/A Balance: -4.55 %	Calculated TDS: 1085	TDS/cTDS: 0.97

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

Tawnya M. Hall
Project Manager Assistant

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0496**

Reported: 14-Jun-24 12:56

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	X423016	06-Jun-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X423016	06-Jun-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X423016	06-Jun-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X423004	07-Jun-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X423004	07-Jun-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X423004	07-Jun-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X423004	07-Jun-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X423004	07-Jun-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X423004	07-Jun-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X423004	07-Jun-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X423004	07-Jun-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X423004	07-Jun-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X423004	07-Jun-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X423004	07-Jun-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X423004	07-Jun-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X423004	07-Jun-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X423004	07-Jun-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X423004	07-Jun-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X423004	07-Jun-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X423004	07-Jun-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X423004	07-Jun-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X423004	07-Jun-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X423004	07-Jun-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X423004	07-Jun-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X423062	14-Jun-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X423062	14-Jun-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X423062	14-Jun-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X423062	14-Jun-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X423062	14-Jun-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X423277	10-Jun-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X423066	04-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X423197	07-Jun-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X423071	05-Jun-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X424024	11-Jun-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X423192	06-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X423012	03-Jun-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X423012	03-Jun-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X423012	03-Jun-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X423012	03-Jun-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X423025	04-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X423026	04-Jun-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X422155	30-May-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X422155	30-May-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X422155	30-May-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X422155	30-May-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X422155	30-May-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X422155	30-May-24	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0496**

Reported: 14-Jun-24 12:56

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	19.0	20.0	95	85 - 115	X423016	06-Jun-24	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.6	85 - 115	X423016	06-Jun-24	
EPA 200.7	Potassium	mg/L	19.2	20.0	96.2	85 - 115	X423016	06-Jun-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.04	1.00	104	85 - 115	X423004	07-Jun-24	
EPA 200.7	Barium	mg/L	1.06	1.00	106	85 - 115	X423004	07-Jun-24	
EPA 200.7	Beryllium	mg/L	1.05	1.00	105	85 - 115	X423004	07-Jun-24	
EPA 200.7	Boron	mg/L	1.07	1.00	107	85 - 115	X423004	07-Jun-24	
EPA 200.7	Cadmium	mg/L	1.06	1.00	106	85 - 115	X423004	07-Jun-24	
EPA 200.7	Calcium	mg/L	21.2	20.0	106	85 - 115	X423004	07-Jun-24	
EPA 200.7	Chromium	mg/L	1.06	1.00	106	85 - 115	X423004	07-Jun-24	
EPA 200.7	Cobalt	mg/L	1.04	1.00	104	85 - 115	X423004	07-Jun-24	
EPA 200.7	Copper	mg/L	1.04	1.00	104	85 - 115	X423004	07-Jun-24	
EPA 200.7	Iron	mg/L	10.6	10.0	106	85 - 115	X423004	07-Jun-24	
EPA 200.7	Lead	mg/L	1.06	1.00	106	85 - 115	X423004	07-Jun-24	
EPA 200.7	Lithium	mg/L	1.02	1.00	102	85 - 115	X423004	07-Jun-24	
EPA 200.7	Magnesium	mg/L	21.7	20.0	108	85 - 115	X423004	07-Jun-24	
EPA 200.7	Manganese	mg/L	1.04	1.00	104	85 - 115	X423004	07-Jun-24	
EPA 200.7	Molybdenum	mg/L	1.07	1.00	107	85 - 115	X423004	07-Jun-24	
EPA 200.7	Nickel	mg/L	1.04	1.00	104	85 - 115	X423004	07-Jun-24	
EPA 200.7	Potassium	mg/L	21.2	20.0	106	85 - 115	X423004	07-Jun-24	
EPA 200.7	Silver	mg/L	0.0536	0.0500	107	85 - 115	X423004	07-Jun-24	
EPA 200.7	Sodium	mg/L	20.3	19.0	107	85 - 115	X423004	07-Jun-24	
EPA 200.7	Vanadium	mg/L	1.07	1.00	107	85 - 115	X423004	07-Jun-24	
EPA 200.7	Zinc	mg/L	1.07	1.00	107	85 - 115	X423004	07-Jun-24	
EPA 200.8	Antimony	mg/L	0.0239	0.0250	95.6	85 - 115	X423062	14-Jun-24	
EPA 200.8	Arsenic	mg/L	0.0255	0.0250	102	85 - 115	X423062	14-Jun-24	
EPA 200.8	Selenium	mg/L	0.0264	0.0250	106	85 - 115	X423062	14-Jun-24	
EPA 200.8	Thallium	mg/L	0.0253	0.0250	101	85 - 115	X423062	14-Jun-24	
EPA 200.8	Uranium	mg/L	0.0251	0.0250	100	85 - 115	X423062	14-Jun-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00203	0.00200	102	85 - 115	X423277	10-Jun-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.100	0.100	100	90 - 110	X423066	04-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X423197	07-Jun-24	
EPA 350.1	Ammonia as N	mg/L	0.974	1.00	97.4	90 - 110	X423071	05-Jun-24	
OIA 1677	Cyanide (WAD)	mg/L	0.104	0.100	104	90 - 110	X424024	11-Jun-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	880	884	99.5	95.4 - 104	X423192	06-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.80	9.93	98.7	96.4 - 105	X423012	03-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	96.4 - 105	X423012	03-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X423026	04-Jun-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.11	3.00	104	90 - 110	X422155	30-May-24	
EPA 300.0	Fluoride	mg/L	2.03	2.00	102	90 - 110	X422155	30-May-24	
EPA 300.0	Nitrate as N	mg/L	2.09	2.00	104	90 - 110	X422155	30-May-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.67	4.50	104	90 - 110	X422155	30-May-24	
EPA 300.0	Nitrite as N	mg/L	2.58	2.50	103	90 - 110	X422155	30-May-24	
EPA 300.0	Sulfate as SO4	mg/L	10.9	10.0	109	90 - 110	X422155	30-May-24	



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Kellogg, ID 83837-0929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0496**

Reported: 14-Jun-24 12:56

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	148000	148000	0.2	20	X423192 - X4E0490-01	06-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X423012 - X4E0490-02	03-Jun-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X423012 - X4E0490-02	03-Jun-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X423012 - X4E0490-02	03-Jun-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X423012 - X4E0490-02	03-Jun-24	
SM 2540 C	Total Diss. Solids	mg/L	1090	1050	3.4	10	X423025 - X4E0496-01	04-Jun-24	
SM 2540 C	Total Diss. Solids	mg/L	307	298	3.0	10	X423025 - X4E0504-02	04-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X423026 - X4E0496-01	04-Jun-24	
SM 4500 H B	pH @20.1°C	pH Units	2.3	2.3	0.0	20	X423012 - X4E0490-02	03-Jun-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	47.8	28.6	20.0	96	70 - 130	X423016 - X4E0415-01	06-Jun-24	
EPA 200.7	Calcium	mg/L	23.6	4.03	20.0	98	70 - 130	X423016 - X4E0491-02	06-Jun-24	
EPA 200.7	Magnesium	mg/L	29.9	10.4	20.0	97.7	70 - 130	X423016 - X4E0415-01	06-Jun-24	
EPA 200.7	Magnesium	mg/L	21.3	1.32	20.0	100	70 - 130	X423016 - X4E0491-02	06-Jun-24	
EPA 200.7	Potassium	mg/L	22.3	2.89	20.0	97.1	70 - 130	X423016 - X4E0415-01	06-Jun-24	
EPA 200.7	Potassium	mg/L	20.3	0.67	20.0	98.3	70 - 130	X423016 - X4E0491-02	06-Jun-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	<0.080	1.00	101	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Aluminum	mg/L	1.04	<0.080	1.00	104	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Barium	mg/L	1.06	0.0379	1.00	102	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Barium	mg/L	1.09	0.0314	1.00	106	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Beryllium	mg/L	1.06	<0.00200	1.00	106	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Beryllium	mg/L	1.07	<0.00200	1.00	107	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Boron	mg/L	1.10	<0.0400	1.00	108	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Boron	mg/L	1.15	0.0485	1.00	110	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Cadmium	mg/L	1.03	<0.0020	1.00	103	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Cadmium	mg/L	1.04	<0.0020	1.00	104	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Calcium	mg/L	182	161	20.0	103	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Calcium	mg/L	131	104	20.0	0.30R>S	70 - 130	X423004 - X4E0509-03	07-Jun-24	M3
EPA 200.7	Chromium	mg/L	1.04	<0.0060	1.00	104	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Chromium	mg/L	1.07	<0.0060	1.00	107	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Cobalt	mg/L	1.01	<0.0060	1.00	100	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Cobalt	mg/L	1.01	<0.0060	1.00	101	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Copper	mg/L	1.04	<0.0100	1.00	104	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Copper	mg/L	1.06	<0.0100	1.00	106	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Iron	mg/L	10.2	<0.100	10.0	102	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Iron	mg/L	10.7	<0.100	10.0	107	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Lead	mg/L	1.02	<0.0075	1.00	102	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Lead	mg/L	1.03	<0.0075	1.00	103	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Lithium	mg/L	0.993	<0.040	1.00	99.3	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Lithium	mg/L	1.02	<0.040	1.00	102	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Magnesium	mg/L	36.7	16.9	20.0	99.2	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Magnesium	mg/L	48.5	25.7	20.0	114	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Manganese	mg/L	1.04	<0.0080	1.00	103	70 - 130	X423004 - X4E0433-01	07-Jun-24	

SVL holds the following certifications:

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

Work order Report Page 6 of 9



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Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0496**

Reported: 14-Jun-24 12:56

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	1.10	0.0548	1.00	105	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Molybdenum	mg/L	1.07	0.0108	1.00	106	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Molybdenum	mg/L	1.07	<0.0080	1.00	107	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Nickel	mg/L	0.996	<0.0100	1.00	99.6	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Nickel	mg/L	1.00	<0.0100	1.00	100	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Potassium	mg/L	22.9	2.52	20.0	102	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Potassium	mg/L	24.3	2.73	20.0	108	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Silver	mg/L	0.0522	<0.0050	0.0500	104	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Silver	mg/L	0.0533	<0.0050	0.0500	107	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Sodium	mg/L	34.9	15.4	19.0	102	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Sodium	mg/L	58.6	36.7	19.0	115	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Vanadium	mg/L	1.06	<0.0050	1.00	106	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Vanadium	mg/L	1.08	0.0051	1.00	108	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Zinc	mg/L	1.06	<0.0100	1.00	105	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Zinc	mg/L	1.05	<0.0100	1.00	105	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.8	Antimony	mg/L	0.0252	<0.00200	0.0250	101	70 - 130	X423062 - X4E0490-07	14-Jun-24	D1
EPA 200.8	Antimony	mg/L	0.0261	<0.00100	0.0250	104	70 - 130	X423062 - X4E0496-01	14-Jun-24	
EPA 200.8	Arsenic	mg/L	0.0238	<0.00200	0.0250	95.3	70 - 130	X423062 - X4E0490-07	14-Jun-24	D1
EPA 200.8	Arsenic	mg/L	0.0254	<0.00100	0.0250	101	70 - 130	X423062 - X4E0496-01	14-Jun-24	
EPA 200.8	Selenium	mg/L	0.0227	<0.00200	0.0250	90.8	70 - 130	X423062 - X4E0490-07	14-Jun-24	D1
EPA 200.8	Selenium	mg/L	0.0224	<0.00100	0.0250	89.6	70 - 130	X423062 - X4E0496-01	14-Jun-24	
EPA 200.8	Thallium	mg/L	0.0239	<0.000400	0.0250	95.4	70 - 130	X423062 - X4E0490-07	14-Jun-24	D1
EPA 200.8	Thallium	mg/L	0.0244	<0.000200	0.0250	97.4	70 - 130	X423062 - X4E0496-01	14-Jun-24	
EPA 200.8	Uranium	mg/L	0.0247	0.000328	0.0250	97.4	70 - 130	X423062 - X4E0490-07	14-Jun-24	D1
EPA 200.8	Uranium	mg/L	0.0254	0.000146	0.0250	101	70 - 130	X423062 - X4E0496-01	14-Jun-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00208	<0.000200	0.00200	104	70 - 130	X423277 - X4E0496-01	10-Jun-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0880	<0.0050	0.100	88.0	79 - 121	X423066 - X4E0481-10	04-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X423197 - X4E0490-05	07-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.105	<0.0050	0.100	105	90 - 110	X423197 - X4E0490-04	07-Jun-24	
EPA 350.1	Ammonia as N	mg/L	1.06	<0.030	1.00	105	90 - 110	X423071 - X4E0487-05	05-Jun-24	
EPA 350.1	Ammonia as N	mg/L	1.24	0.084	1.00	115	90 - 110	X423071 - X4E0487-04	05-Jun-24	M1
OIA 1677	Cyanide (WAD)	mg/L	0.0990	<0.0050	0.100	99.0	82 - 118	X424024 - X4E0490-03	11-Jun-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.41	1.21	3.00	107	90 - 110	X422155 - X4E0483-01	30-May-24	
EPA 300.0	Chloride	mg/L	25.6	23.3	3.00	0.30R>S	90 - 110	X422155 - X4E0499-01	30-May-24	D2,M4
EPA 300.0	Fluoride	mg/L	2.08	<0.100	2.00	102	90 - 110	X422155 - X4E0483-01	30-May-24	
EPA 300.0	Fluoride	mg/L	2.07	0.118	2.00	97.4	90 - 110	X422155 - X4E0499-01	30-May-24	
EPA 300.0	Nitrate as N	mg/L	2.26	0.169	2.00	104	90 - 110	X422155 - X4E0483-01	30-May-24	
EPA 300.0	Nitrate as N	mg/L	12.0	10.2	2.00	90.5	90 - 110	X422155 - X4E0499-01	30-May-24	D2
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.36	0.169	4.00	105	90 - 110	X422155 - X4E0483-01	30-May-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	14.2	10.3	4.00	97.4	90 - 110	X422155 - X4E0499-01	30-May-24	
EPA 300.0	Nitrite as N	mg/L	2.10	<0.050	2.00	105	90 - 110	X422155 - X4E0483-01	30-May-24	
EPA 300.0	Nitrite as N	mg/L	2.15	0.063	2.00	104	90 - 110	X422155 - X4E0499-01	30-May-24	
EPA 300.0	Sulfate as SO4	mg/L	12.4	1.66	10.0	107	90 - 110	X422155 - X4E0483-01	30-May-24	
EPA 300.0	Sulfate as SO4	mg/L	94.9	87.1	10.0	0.30R>S	90 - 110	X422155 - X4E0499-01	30-May-24	D2,M4

SVL holds the following certifications:

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

Work order Report Page 7 of 9



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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0496**

Reported: 14-Jun-24 12:56

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	47.7	47.8	20.0	0.4	20	95	X423016 - X4E0415-01	
EPA 200.7	Magnesium	mg/L	29.9	29.9	20.0	0.1	20	97.8	X423016 - X4E0415-01	
EPA 200.7	Potassium	mg/L	22.4	22.3	20.0	0.2	20	97.4	X423016 - X4E0415-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.04	1.01	1.00	2.5	20	104	X423004 - X4E0433-01	
EPA 200.7	Barium	mg/L	1.10	1.06	1.00	3.9	20	106	X423004 - X4E0433-01	
EPA 200.7	Beryllium	mg/L	1.08	1.06	1.00	1.9	20	108	X423004 - X4E0433-01	
EPA 200.7	Boron	mg/L	1.13	1.10	1.00	2.6	20	111	X423004 - X4E0433-01	
EPA 200.7	Cadmium	mg/L	1.06	1.03	1.00	2.5	20	106	X423004 - X4E0433-01	
EPA 200.7	Calcium	mg/L	182	182	20.0	0.2	20	104	X423004 - X4E0433-01	
EPA 200.7	Chromium	mg/L	1.08	1.04	1.00	3.2	20	108	X423004 - X4E0433-01	
EPA 200.7	Cobalt	mg/L	1.03	1.01	1.00	2.5	20	103	X423004 - X4E0433-01	
EPA 200.7	Copper	mg/L	1.08	1.04	1.00	3.2	20	107	X423004 - X4E0433-01	
EPA 200.7	Iron	mg/L	10.7	10.2	10.0	5.6	20	107	X423004 - X4E0433-01	
EPA 200.7	Lead	mg/L	1.05	1.02	1.00	2.7	20	105	X423004 - X4E0433-01	
EPA 200.7	Lithium	mg/L	1.02	0.993	1.00	2.6	20	102	X423004 - X4E0433-01	
EPA 200.7	Magnesium	mg/L	38.3	36.7	20.0	4.2	20	107	X423004 - X4E0433-01	
EPA 200.7	Manganese	mg/L	1.07	1.04	1.00	3.4	20	107	X423004 - X4E0433-01	
EPA 200.7	Molybdenum	mg/L	1.10	1.07	1.00	3.0	20	109	X423004 - X4E0433-01	
EPA 200.7	Nickel	mg/L	1.02	0.996	1.00	2.5	20	102	X423004 - X4E0433-01	
EPA 200.7	Potassium	mg/L	24.0	22.9	20.0	4.7	20	107	X423004 - X4E0433-01	
EPA 200.7	Silver	mg/L	0.0533	0.0522	0.0500	2.1	20	107	X423004 - X4E0433-01	
EPA 200.7	Sodium	mg/L	36.0	34.9	19.0	3.2	20	108	X423004 - X4E0433-01	
EPA 200.7	Vanadium	mg/L	1.10	1.06	1.00	3.5	20	110	X423004 - X4E0433-01	
EPA 200.7	Zinc	mg/L	1.08	1.06	1.00	2.2	20	107	X423004 - X4E0433-01	
EPA 200.8	Antimony	mg/L	0.0252	0.0252	0.0250	0.1	20	101	X423062 - X4E0490-07	D1
EPA 200.8	Arsenic	mg/L	0.0245	0.0238	0.0250	2.9	20	98.1	X423062 - X4E0490-07	D1
EPA 200.8	Selenium	mg/L	0.0221	0.0227	0.0250	2.5	20	88.5	X423062 - X4E0490-07	D1
EPA 200.8	Thallium	mg/L	0.0239	0.0239	0.0250	0.3	20	95.7	X423062 - X4E0490-07	D1
EPA 200.8	Uranium	mg/L	0.0246	0.0247	0.0250	0.3	20	97.2	X423062 - X4E0490-07	D1

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00209	0.00208	0.00200	0.6	20	104	X423277 - X4E0496-01	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0920	0.0880	0.100	4.4	11	92.0	X423066 - X4E0481-10	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.102	0.100	0.1	20	102	X423197 - X4E0490-05	
EPA 350.1	Ammonia as N	mg/L	1.05	1.06	1.00	1.1	20	103	X423071 - X4E0487-05	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.0990	0.100	2.0	11	101	X424024 - X4E0490-03	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	4.45	4.41	3.00	0.9	20	108	X422155 - X4E0483-01	
EPA 300.0	Fluoride	mg/L	2.09	2.08	2.00	0.7	20	102	X422155 - X4E0483-01	
EPA 300.0	Nitrate as N	mg/L	2.27	2.26	2.00	0.4	20	105	X422155 - X4E0483-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.37	4.36	4.00	0.4	20	105	X422155 - X4E0483-01	
EPA 300.0	Nitrite as N	mg/L	2.10	2.10	2.00	0.3	20	105	X422155 - X4E0483-01	
EPA 300.0	Sulfate as SO4	mg/L	12.4	12.4	10.0	0.0	20	107	X422155 - X4E0483-01	



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Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0496**

Reported: 14-Jun-24 12:56

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
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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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0005**

Reported: 14-Jun-24 13:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
PGMW-3	X4F0005-01	Ground Water	30-May-24 12:52	PB	03-Jun-2024	Q6

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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(Q6) SVL received the following containers outside of published EPA guidelines for preservation temperatures (0-6°C).

The guidelines do not pertain to nitric-preserved metals.

Default Cooler (Received Temperature: 14.6°C)

<u>Labnumber</u>	<u>Container</u>	<u>Client ID</u>	<u>Labnumber</u>	<u>Container</u>	<u>Client ID</u>
X4F0005-01 A	Raw HDPE	PGMW-3	X4F0005-01 B	Sulfuric HDPE	PGMW-3
X4F0005-01 C	Filtered nitric HDPE	PGMW-3	X4F0005-01 D	Nitric HDPE	PGMW-3
X4F0005-01 E	NaOH Amber Plastic	PGMW-3			

Case Narrative: X4F0005

The state of origin only accredits for drinking water analyses.

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

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0005**

Reported: 14-Jun-24 13:26

Client Sample ID: **PGMW-3**SVL Sample ID: **X4F0005-01 (Ground Water)**

Sampled: 30-May-24 12:52

Received: 03-Jun-24

Sampled By: PB

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	172	mg/L	0.100	0.069		X423162	HJL	06/11/24 16:33	
EPA 200.7	Magnesium	46.8	mg/L	0.500	0.090		X423162	HJL	06/11/24 16:33	
EPA 200.7	Potassium	5.19	mg/L	0.50	0.18		X423162	HJL	06/11/24 16:33	
SM 2340 B	Hardness (as CaCO3)	623	mg/L	2.31	0.543		N/A		06/10/24 13:02	

Metals (Dissolved)

EPA 200.7	Aluminum	12.1	mg/L	0.080	0.054		X424032	NMS	06/10/24 13:02	
EPA 200.7	Barium	0.0124	mg/L	0.0020	0.0019		X424032	NMS	06/10/24 13:02	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X424032	NMS	06/10/24 13:02	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X424032	NMS	06/10/24 13:02	
EPA 200.7	Cadmium	0.0022	mg/L	0.0020	0.0016		X424032	NMS	06/10/24 13:02	
EPA 200.7	Calcium	163	mg/L	0.100	0.069		X424032	NMS	06/10/24 13:02	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X424032	NMS	06/10/24 13:02	
EPA 200.7	Cobalt	0.0215	mg/L	0.0060	0.0046		X424032	NMS	06/10/24 13:02	
EPA 200.7	Copper	0.199	mg/L	0.0100	0.0027		X424032	NMS	06/10/24 13:02	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X424032	NMS	06/10/24 13:02	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X424032	NMS	06/10/24 13:02	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X424032	NMS	06/10/24 13:02	
EPA 200.7	Magnesium	45.7	mg/L	0.500	0.090		X424032	NMS	06/10/24 13:02	
EPA 200.7	Manganese	2.40	mg/L	0.0080	0.0034		X424032	NMS	06/10/24 13:02	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X424032	NMS	06/10/24 13:02	
EPA 200.7	Nickel	0.0390	mg/L	0.0100	0.0048		X424032	NMS	06/10/24 13:02	
EPA 200.7	Potassium	4.90	mg/L	0.50	0.18		X424032	NMS	06/10/24 13:02	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X424032	NMS	06/10/24 13:02	
EPA 200.7	Sodium	25.6	mg/L	0.50	0.12		X424032	NMS	06/10/24 13:02	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X424032	NMS	06/10/24 13:02	
EPA 200.7	Zinc	0.284	mg/L	0.0100	0.0054		X424032	NMS	06/10/24 13:02	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X423062	SMU	06/14/24 08:55	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X423062	SMU	06/14/24 08:55	
EPA 200.8	Selenium	0.00166	mg/L	0.00100	0.00024		X423062	SMU	06/14/24 08:55	
EPA 200.8	Thallium	0.000427	mg/L	0.000200	0.00008		X423062	SMU	06/14/24 08:55	
EPA 200.8	Uranium	0.00148	mg/L	0.000100	0.000052		X423062	SMU	06/14/24 08:55	

Metals (Filtered)

EPA 245.1	Mercury	0.000264	mg/L	0.000200	0.000093		X424068	MAC	06/12/24 14:19	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X423066	DD	06/04/24 15:16	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X423197	JPM	06/07/24 12:22	
EPA 350.1	Ammonia as N	0.031	mg/L	0.030	0.013		X423071	DD	06/05/24 12:01	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X424024	DD	06/11/24 09:59	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X423192	MWD	06/06/24 09:12	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X423012	MWD	06/03/24 18:00	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X423012	MWD	06/03/24 18:00	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X423012	MWD	06/03/24 18:00	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X423012	MWD	06/03/24 18:00	
SM 2540 C	Total Diss. Solids	988	mg/L	10			X423054	TJL	06/05/24 13:55	
SM 2540 D	Total Susp. Solids	30.0	mg/L	5.0			X423055	TJL	06/05/24 16:55	
SM 4500 H B	pH @20.4°C	4.2	pH Units				X423012	MWD	06/03/24 18:00	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 9



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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: X4F0005 Reported: 14-Jun-24 13:26

Client Sample ID: **PGMW-3**
SVL Sample ID: **X4F0005-01 (Ground Water)**

Sampled: 30-May-24 12:52
Received: 03-Jun-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	54.8	mg/L	10.0	1.10	50	X423034	RS	06/03/24 13:01	D2,M4
EPA 300.0	Fluoride	1.68	mg/L	0.100	0.017		X423034	RS	06/03/24 12:45	M1,M2
EPA 300.0	Nitrate as N	6.73	mg/L	2.50	0.650	50	X423034	RS	06/03/24 13:01	D2,H3,M4
EPA 300.0	Nitrate+Nitrite as N	6.73	mg/L	0.100	0.044		X423034	RS	06/03/24 12:45	D2,H3
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X423034	RS	06/03/24 12:45	H3
EPA 300.0	Sulfate as SO4	634	mg/L	15.0	9.00	50	X423034	RS	06/03/24 13:01	D2,M4

Cation/Anion Balance and TDS Ratios

Cation Sum: 14.6 meq/L	Anion Sum: 15.3 meq/L	C/A Balance: -2.49 %	Calculated TDS: 965	TDS/cTDS: 1.02

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



Tawnya M. Hall
Project Manager Assistant

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0005**

Reported: 14-Jun-24 13:26

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	X423162	11-Jun-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X423162	11-Jun-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X423162	11-Jun-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X424032	10-Jun-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X424032	10-Jun-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X424032	10-Jun-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X424032	10-Jun-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X424032	10-Jun-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X424032	10-Jun-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X424032	10-Jun-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X424032	10-Jun-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X424032	10-Jun-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X424032	10-Jun-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X424032	10-Jun-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X424032	10-Jun-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X424032	10-Jun-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X424032	10-Jun-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X424032	10-Jun-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X424032	10-Jun-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X424032	10-Jun-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X424032	10-Jun-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X424032	10-Jun-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X424032	10-Jun-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X424032	10-Jun-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X423062	14-Jun-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X423062	14-Jun-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X423062	14-Jun-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X423062	14-Jun-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X423062	14-Jun-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X423066	04-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X423197	07-Jun-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X423071	05-Jun-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X424024	11-Jun-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X423192	06-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X423012	03-Jun-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X423012	03-Jun-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X423012	03-Jun-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X423012	03-Jun-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X423054	05-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X423055	05-Jun-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X423034	03-Jun-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X423034	03-Jun-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X423034	03-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X423034	03-Jun-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X423034	03-Jun-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X423034	03-Jun-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: **X4F0005**

Reported: 14-Jun-24 13:26

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes

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

EPA 200.7	Calcium	mg/L	20.0	20.0	100	85 - 115	X423162	11-Jun-24	
EPA 200.7	Magnesium	mg/L	20.3	20.0	101	85 - 115	X423162	11-Jun-24	
EPA 200.7	Potassium	mg/L	19.5	20.0	97.5	85 - 115	X423162	11-Jun-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.942	1.00	94.2	85 - 115	X424032	10-Jun-24	
EPA 200.7	Barium	mg/L	0.951	1.00	95.1	85 - 115	X424032	10-Jun-24	
EPA 200.7	Beryllium	mg/L	0.960	1.00	96.0	85 - 115	X424032	10-Jun-24	
EPA 200.7	Boron	mg/L	0.947	1.00	94.7	85 - 115	X424032	10-Jun-24	
EPA 200.7	Cadmium	mg/L	0.945	1.00	94.5	85 - 115	X424032	10-Jun-24	
EPA 200.7	Calcium	mg/L	19.2	20.0	95.8	85 - 115	X424032	10-Jun-24	
EPA 200.7	Chromium	mg/L	0.948	1.00	94.8	85 - 115	X424032	10-Jun-24	
EPA 200.7	Cobalt	mg/L	0.927	1.00	92.7	85 - 115	X424032	10-Jun-24	
EPA 200.7	Copper	mg/L	0.928	1.00	92.8	85 - 115	X424032	10-Jun-24	
EPA 200.7	Iron	mg/L	9.61	10.0	96.1	85 - 115	X424032	10-Jun-24	
EPA 200.7	Lead	mg/L	0.940	1.00	94.0	85 - 115	X424032	10-Jun-24	
EPA 200.7	Lithium	mg/L	0.915	1.00	91.5	85 - 115	X424032	10-Jun-24	
EPA 200.7	Magnesium	mg/L	19.9	20.0	99.3	85 - 115	X424032	10-Jun-24	
EPA 200.7	Manganese	mg/L	0.945	1.00	94.5	85 - 115	X424032	10-Jun-24	
EPA 200.7	Molybdenum	mg/L	0.950	1.00	95.0	85 - 115	X424032	10-Jun-24	
EPA 200.7	Nickel	mg/L	0.925	1.00	92.5	85 - 115	X424032	10-Jun-24	
EPA 200.7	Potassium	mg/L	19.0	20.0	94.9	85 - 115	X424032	10-Jun-24	
EPA 200.7	Silver	mg/L	0.0481	0.0500	96.1	85 - 115	X424032	10-Jun-24	
EPA 200.7	Sodium	mg/L	18.4	19.0	96.9	85 - 115	X424032	10-Jun-24	
EPA 200.7	Vanadium	mg/L	0.955	1.00	95.5	85 - 115	X424032	10-Jun-24	
EPA 200.7	Zinc	mg/L	0.948	1.00	94.8	85 - 115	X424032	10-Jun-24	
EPA 200.8	Antimony	mg/L	0.0239	0.0250	95.6	85 - 115	X423062	14-Jun-24	
EPA 200.8	Arsenic	mg/L	0.0255	0.0250	102	85 - 115	X423062	14-Jun-24	
EPA 200.8	Selenium	mg/L	0.0264	0.0250	106	85 - 115	X423062	14-Jun-24	
EPA 200.8	Thallium	mg/L	0.0253	0.0250	101	85 - 115	X423062	14-Jun-24	
EPA 200.8	Uranium	mg/L	0.0251	0.0250	100	85 - 115	X423062	14-Jun-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00209	0.00200	105	85 - 115	X424068	12-Jun-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.100	0.100	100	90 - 110	X423066	04-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X423197	07-Jun-24	
EPA 350.1	Ammonia as N	mg/L	0.974	1.00	97.4	90 - 110	X423071	05-Jun-24	
OIA 1677	Cyanide (WAD)	mg/L	0.104	0.100	104	90 - 110	X424024	11-Jun-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	880	884	99.5	95.4 - 104	X423192	06-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.80	9.93	98.7	96.4 - 105	X423012	03-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	96.4 - 105	X423012	03-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X423055	05-Jun-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.06	3.00	102	90 - 110	X423034	03-Jun-24	
EPA 300.0	Fluoride	mg/L	2.02	2.00	101	90 - 110	X423034	03-Jun-24	
EPA 300.0	Nitrate as N	mg/L	2.03	2.00	102	90 - 110	X423034	03-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.54	4.50	101	90 - 110	X423034	03-Jun-24	
EPA 300.0	Nitrite as N	mg/L	2.51	2.50	100	90 - 110	X423034	03-Jun-24	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.0	105	90 - 110	X423034	03-Jun-24	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order:

X4F0005

Reported:

14-Jun-24 13:26

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	148000	148000	0.2	20	X423192 - X4E0490-01	06-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X423012 - X4E0490-02	03-Jun-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X423012 - X4E0490-02	03-Jun-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X423012 - X4E0490-02	03-Jun-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X423012 - X4E0490-02	03-Jun-24	
SM 2540 C	Total Diss. Solids	mg/L	978	988	1.0	10	X423054 - X4F0005-01	05-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	29.0	30.0	3.4	10	X423055 - X4F0005-01	05-Jun-24	
SM 4500 H B	pH @20.1°C	pH Units	2.3	2.3	0.0	20	X423012 - X4E0490-02	03-Jun-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	60.2	39.4	20.0	104	70 - 130	X423162 - X4F0032-01	11-Jun-24	
EPA 200.7	Magnesium	mg/L	51.9	31.5	20.0	102	70 - 130	X423162 - X4F0032-01	11-Jun-24	
EPA 200.7	Potassium	mg/L	25.1	5.12	20.0	99.9	70 - 130	X423162 - X4F0032-01	11-Jun-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.934	<0.080	1.00	93.4	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Aluminum	mg/L	212	216	1.00	0.30R>S	70 - 130	X424032 - X4F0080-07	10-Jun-24	M3
EPA 200.7	Barium	mg/L	0.982	0.0462	1.00	93.5	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Barium	mg/L	0.984	0.0106	1.00	97.4	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Beryllium	mg/L	0.968	<0.00200	1.00	96.8	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Beryllium	mg/L	1.20	0.218	1.00	98.4	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Boron	mg/L	1.02	0.0436	1.00	97.3	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	101	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Cadmium	mg/L	0.921	0.0031	1.00	91.8	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Cadmium	mg/L	1.48	0.517	1.00	96.7	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Calcium	mg/L	280	268	20.0	0.30R>S	70 - 130	X424032 - X4E0432-01	10-Jun-24	M3
EPA 200.7	Calcium	mg/L	486	478	20.0	0.30R>S	70 - 130	X424032 - X4F0080-07	10-Jun-24	M3
EPA 200.7	Chromium	mg/L	0.942	<0.0060	1.00	94.2	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Chromium	mg/L	0.971	0.0160	1.00	95.5	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Cobalt	mg/L	0.908	0.0067	1.00	90.1	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Cobalt	mg/L	1.44	0.489	1.00	94.7	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Copper	mg/L	0.969	0.0117	1.00	95.7	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Copper	mg/L	1.76	0.715	1.00	105	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Iron	mg/L	9.68	<0.100	10.0	96.8	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Iron	mg/L	10.1	0.293	10.0	97.6	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Lead	mg/L	0.914	<0.0075	1.00	90.8	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Lead	mg/L	0.971	<0.0075	1.00	96.4	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Lithium	mg/L	0.911	<0.040	1.00	91.1	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Lithium	mg/L	1.09	0.111	1.00	98.1	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Magnesium	mg/L	77.9	60.0	20.0	89.2	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Magnesium	mg/L	208	192	20.0	84.6	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Manganese	mg/L	0.966	0.0259	1.00	94.0	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Manganese	mg/L	74.0	74.5	1.00	0.30R>S	70 - 130	X424032 - X4F0080-07	10-Jun-24	M3
EPA 200.7	Molybdenum	mg/L	0.984	0.0275	1.00	95.7	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Molybdenum	mg/L	0.978	<0.0080	1.00	97.4	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Nickel	mg/L	0.899	<0.0100	1.00	89.9	70 - 130	X424032 - X4E0432-01	10-Jun-24	

SVL holds the following certifications:

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

Work order Report Page 6 of 9


Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4F0005**

Reported: 14-Jun-24 13:26

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Nickel	mg/L	1.83	0.893	1.00	93.8	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Potassium	mg/L	23.7	4.45	20.0	96.1	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Potassium	mg/L	25.4	5.38	20.0	100	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Silver	mg/L	0.0482	<0.0050	0.0500	96.4	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Silver	mg/L	0.0515	<0.0050	0.0500	103	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Sodium	mg/L	66.5	49.4	19.0	90.1	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Sodium	mg/L	55.1	36.6	19.0	97.5	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Vanadium	mg/L	0.967	<0.0050	1.00	96.7	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Vanadium	mg/L	0.994	0.0057	1.00	98.8	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Zinc	mg/L	1.28	0.359	1.00	92.5	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Zinc	mg/L	19.7	19.1	1.00	0.30R>S	70 - 130	X424032 - X4F0080-07	10-Jun-24	M3
EPA 200.8	Antimony	mg/L	0.0252	<0.00200	0.0250	101	70 - 130	X423062 - X4E0490-07	14-Jun-24	D1
EPA 200.8	Antimony	mg/L	0.0261	<0.00100	0.0250	104	70 - 130	X423062 - X4E0496-01	14-Jun-24	
EPA 200.8	Arsenic	mg/L	0.0238	<0.00200	0.0250	95.3	70 - 130	X423062 - X4E0490-07	14-Jun-24	D1
EPA 200.8	Arsenic	mg/L	0.0254	<0.00100	0.0250	101	70 - 130	X423062 - X4E0496-01	14-Jun-24	
EPA 200.8	Selenium	mg/L	0.0227	<0.00200	0.0250	90.8	70 - 130	X423062 - X4E0490-07	14-Jun-24	D1
EPA 200.8	Selenium	mg/L	0.0224	<0.00100	0.0250	89.6	70 - 130	X423062 - X4E0496-01	14-Jun-24	
EPA 200.8	Thallium	mg/L	0.0239	<0.000400	0.0250	95.4	70 - 130	X423062 - X4E0490-07	14-Jun-24	D1
EPA 200.8	Thallium	mg/L	0.0244	<0.000200	0.0250	97.4	70 - 130	X423062 - X4E0496-01	14-Jun-24	
EPA 200.8	Uranium	mg/L	0.0247	0.000328	0.0250	97.4	70 - 130	X423062 - X4E0490-07	14-Jun-24	D1
EPA 200.8	Uranium	mg/L	0.0254	0.000146	0.0250	101	70 - 130	X423062 - X4E0496-01	14-Jun-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00211	<0.000200	0.00200	106	70 - 130	X424068 - X4F0004-01	12-Jun-24	
EPA 245.1	Mercury	mg/L	0.00210	<0.000200	0.00200	105	70 - 130	X424068 - X4F0080-02	12-Jun-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0880	<0.0050	0.100	88.0	79 - 121	X423066 - X4E0481-10	04-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X423197 - X4E0490-05	07-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.105	<0.0050	0.100	105	90 - 110	X423197 - X4E0490-04	07-Jun-24	
EPA 350.1	Ammonia as N	mg/L	1.06	<0.030	1.00	105	90 - 110	X423071 - X4E0487-05	05-Jun-24	
EPA 350.1	Ammonia as N	mg/L	1.24	0.084	1.00	115	90 - 110	X423071 - X4E0487-04	05-Jun-24	M1
OIA 1677	Cyanide (WAD)	mg/L	0.0990	<0.0050	0.100	99.0	82 - 118	X424024 - X4E0490-03	11-Jun-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	57.4	54.8	3.00	0.30R>S	90 - 110	X423034 - X4F0005-01	04-Jun-24	D2,M4
EPA 300.0	Fluoride	mg/L	3.94	1.68	2.00	113	90 - 110	X423034 - X4F0005-01	04-Jun-24	M1
EPA 300.0	Nitrate as N	mg/L	8.51	6.73	2.00	0.30R>S	90 - 110	X423034 - X4F0005-01	04-Jun-24	D2,M4
EPA 300.0	Nitrate+Nitrite as N	mg/L	10.5	6.73	4.00	94.7	90 - 110	X423034 - X4F0005-01	04-Jun-24	D2
EPA 300.0	Nitrite as N	mg/L	2.01	<0.050	2.00	101	90 - 110	X423034 - X4F0005-01	04-Jun-24	
EPA 300.0	Sulfate as SO4	mg/L	634	634	10.0	0.30R>S	90 - 110	X423034 - X4F0005-01	04-Jun-24	D2,M4

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	59.1	60.2	20.0	2.0	20	98	X423162 - X4F0032-01	
EPA 200.7	Magnesium	mg/L	50.6	51.9	20.0	2.5	20	95.6	X423162 - X4F0032-01	
EPA 200.7	Potassium	mg/L	24.8	25.1	20.0	1.2	20	98.4	X423162 - X4F0032-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.980	0.934	1.00	4.8	20	98.0	X424032 - X4E0432-01	

SVL holds the following certifications:

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

Work order Report Page 7 of 9



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net
Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4F0005**

Reported: 14-Jun-24 13:26

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

Metals (Dissolved) (Continued)

EPA 200.7	Barium	mg/L	1.03	0.982	1.00	4.5	20	98.0	X424032 - X4E0432-01	
EPA 200.7	Beryllium	mg/L	0.986	0.968	1.00	1.9	20	98.6	X424032 - X4E0432-01	
EPA 200.7	Boron	mg/L	1.05	1.02	1.00	2.9	20	100	X424032 - X4E0432-01	
EPA 200.7	Cadmium	mg/L	0.954	0.921	1.00	3.5	20	95.1	X424032 - X4E0432-01	
EPA 200.7	Calcium	mg/L	281	280	20.0	0.4	20	0.30R>S	X424032 - X4E0432-01	M3
EPA 200.7	Chromium	mg/L	0.976	0.942	1.00	3.5	20	97.6	X424032 - X4E0432-01	
EPA 200.7	Cobalt	mg/L	0.939	0.908	1.00	3.4	20	93.3	X424032 - X4E0432-01	
EPA 200.7	Copper	mg/L	0.999	0.969	1.00	3.1	20	98.7	X424032 - X4E0432-01	
EPA 200.7	Iron	mg/L	9.98	9.68	10.0	3.1	20	99.8	X424032 - X4E0432-01	
EPA 200.7	Lead	mg/L	0.947	0.914	1.00	3.5	20	94.1	X424032 - X4E0432-01	
EPA 200.7	Lithium	mg/L	0.945	0.911	1.00	3.6	20	94.5	X424032 - X4E0432-01	
EPA 200.7	Magnesium	mg/L	79.9	77.9	20.0	2.6	20	99.5	X424032 - X4E0432-01	
EPA 200.7	Manganese	mg/L	1.00	0.966	1.00	3.5	20	97.4	X424032 - X4E0432-01	
EPA 200.7	Molybdenum	mg/L	1.02	0.984	1.00	3.6	20	99.3	X424032 - X4E0432-01	
EPA 200.7	Nickel	mg/L	0.933	0.899	1.00	3.7	20	93.3	X424032 - X4E0432-01	
EPA 200.7	Potassium	mg/L	24.2	23.7	20.0	2.4	20	99.0	X424032 - X4E0432-01	
EPA 200.7	Silver	mg/L	0.0496	0.0482	0.0500	2.9	20	99.3	X424032 - X4E0432-01	
EPA 200.7	Sodium	mg/L	67.2	66.5	19.0	1.0	20	93.6	X424032 - X4E0432-01	
EPA 200.7	Vanadium	mg/L	0.997	0.967	1.00	3.0	20	99.7	X424032 - X4E0432-01	
EPA 200.7	Zinc	mg/L	1.32	1.28	1.00	2.6	20	95.9	X424032 - X4E0432-01	
EPA 200.8	Antimony	mg/L	0.0252	0.0252	0.0250	0.1	20	101	X423062 - X4E0490-07	D1
EPA 200.8	Arsenic	mg/L	0.0245	0.0238	0.0250	2.9	20	98.1	X423062 - X4E0490-07	D1
EPA 200.8	Selenium	mg/L	0.0221	0.0227	0.0250	2.5	20	88.5	X423062 - X4E0490-07	D1
EPA 200.8	Thallium	mg/L	0.0239	0.0239	0.0250	0.3	20	95.7	X423062 - X4E0490-07	D1
EPA 200.8	Uranium	mg/L	0.0246	0.0247	0.0250	0.3	20	97.2	X423062 - X4E0490-07	D1

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00205	0.00211	0.00200	2.9	20	103	X424068 - X4F0004-01	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0920	0.0880	0.100	4.4	11	92.0	X423066 - X4E0481-10	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.102	0.100	0.1	20	102	X423197 - X4E0490-05	
EPA 350.1	Ammonia as N	mg/L	1.05	1.06	1.00	1.1	20	103	X423071 - X4E0487-05	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.0990	0.100	2.0	11	101	X424024 - X4E0490-03	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	57.9	57.4	3.00	0.8	20	103	X423034 - X4F0005-01	D2
EPA 300.0	Fluoride	mg/L	3.48	3.94	2.00	12.4	20	89.6	X423034 - X4F0005-01	M2
EPA 300.0	Nitrate as N	mg/L	8.51	8.51	2.00	0.1	20	0.30R>S	X423034 - X4F0005-01	D2,M4
EPA 300.0	Nitrate+Nitrite as N	mg/L	10.5	10.5	4.00	0.1	20	95.0	X423034 - X4F0005-01	D2
EPA 300.0	Nitrite as N	mg/L	2.02	2.01	2.00	0.2	20	101	X423034 - X4F0005-01	
EPA 300.0	Sulfate as SO4	mg/L	633	634	10.0	0.0	20	0.30R>S	X423034 - X4F0005-01	D2,M4



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0005**

Reported: 14-Jun-24 13:26

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
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.
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

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0305**

Reported: 02-Jul-24 13:23

Client Sample ID: **Vin-2A**

Sampled: 17-Jun-24 10:35

SVL Sample ID: **X4F0305-01 (Ground Water)**

Received: 18-Jun-24

Sampled By: PB

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	213	mg/L	0.100	0.069		X426147	NMS	06/27/24 10:00	M3
EPA 200.7	Magnesium	56.5	mg/L	0.500	0.090		X426147	NMS	06/27/24 10:00	
EPA 200.7	Potassium	1.66	mg/L	0.50	0.18		X426147	NMS	06/27/24 10:00	
SM 2340 B	Hardness (as CaCO3)	765	mg/L	2.31	0.543		N/A		06/25/24 12:27	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X426051	NMS	06/25/24 12:27	
EPA 200.7	Barium	0.0071	mg/L	0.0020	0.0019		X426051	NMS	06/25/24 12:27	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X426051	NMS	06/25/24 12:27	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X426051	NMS	06/25/24 12:27	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X426051	NMS	06/25/24 12:27	
EPA 200.7	Calcium	199	mg/L	0.100	0.069		X426051	NMS	06/25/24 12:27	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X426051	NMS	06/25/24 12:27	
EPA 200.7	Cobalt	0.0125	mg/L	0.0060	0.0046		X426051	NMS	06/25/24 12:27	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X426051	NMS	06/25/24 12:27	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X426051	NMS	06/25/24 12:27	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X426051	NMS	06/25/24 12:27	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X426051	NMS	06/25/24 12:27	
EPA 200.7	Magnesium	51.1	mg/L	0.500	0.090		X426051	NMS	06/25/24 12:27	
EPA 200.7	Manganese	0.0904	mg/L	0.0080	0.0034		X426051	NMS	06/25/24 12:27	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X426051	NMS	06/25/24 12:27	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X426051	NMS	06/25/24 12:27	
EPA 200.7	Potassium	1.52	mg/L	0.50	0.18		X426051	NMS	06/25/24 15:52	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X426051	NMS	06/25/24 12:27	
EPA 200.7	Sodium	22.7	mg/L	0.50	0.12		X426051	NMS	06/25/24 12:27	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X426051	NMS	06/25/24 12:27	
EPA 200.7	Zinc	0.275	mg/L	0.0100	0.0054		X426051	NMS	06/25/24 12:27	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X426136	JRR	07/01/24 12:44	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X426136	JRR	07/01/24 12:44	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X426136	JRR	07/01/24 12:44	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X426136	JRR	07/01/24 12:44	
EPA 200.8	Uranium	0.00327	mg/L	0.000100	0.000052		X426136	JRR	07/01/24 12:44	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X425106	MAC	06/25/24 15:29	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @24.0°C	< 0.0050	mg/L	0.0050	0.0048		X425237	DD	06/21/24 13:39	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X425169	DD	06/21/24 10:27	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X426092	DD	06/26/24 11:05	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X426131	DD	06/26/24 16:00	
SM 2310 B	Acidity to pH 8.3	-105	mg/L as CaCO3	10.0			X425195	MWD	06/21/24 09:00	
SM 2320 B	Total Alkalinity	102	mg/L as CaCO3	1.0			X425121	MWD	06/19/24 15:06	
SM 2320 B	Bicarbonate	102	mg/L as CaCO3	1.0			X425121	MWD	06/19/24 15:06	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X425121	MWD	06/19/24 15:06	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X425121	MWD	06/19/24 15:06	
SM 2540 C	Total Diss. Solids	971	mg/L	10			X425112	TJL	06/20/24 14:05	
SM 2540 D	Total Susp. Solids	7.0	mg/L	5.0			X425113	TJL	06/20/24 13:30	
SM 4500 H B	pH @21.5°C	7.8	pH Units				X425121	MWD	06/19/24 15:06	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 12



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

Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4F0305 Reported: 02-Jul-24 13:23

Client Sample ID: **Vin-2A**
SVL Sample ID: **X4F0305-01 (Ground Water)**

Sampled: 17-Jun-24 10:35
Received: 18-Jun-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	7.41	mg/L	0.20	0.02		X425095	RS	06/18/24 12:55	
EPA 300.0	Fluoride	0.231	mg/L	0.100	0.017		X425095	RS	06/18/24 12:55	M2
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X425095	RS	06/18/24 12:55	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X425095	RS	06/18/24 12:55	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X425095	RS	06/18/24 12:55	
EPA 300.0	Sulfate as SO4	675	mg/L	15.0	9.00	50	X425095	RS	06/18/24 13:11	D2,M4

Cation/Anion Balance and TDS Ratios

Cation Sum: 15.2 meq/L	Anion Sum: 16.3 meq/L	C/A Balance: -3.58 %	Calculated TDS: 1028	TDS/cTDS: 0.94

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



Tawnya M. Hall
Project Manager Assistant

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0305**

Reported: 02-Jul-24 13:23

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	X426147	27-Jun-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X426147	27-Jun-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X426147	27-Jun-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X426051	25-Jun-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X426051	25-Jun-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X426051	25-Jun-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X426051	25-Jun-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X426051	25-Jun-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X426051	25-Jun-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X426051	25-Jun-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X426051	25-Jun-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X426051	25-Jun-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X426051	25-Jun-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X426051	25-Jun-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X426051	25-Jun-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X426051	25-Jun-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X426051	25-Jun-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X426051	25-Jun-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X426051	25-Jun-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X426051	25-Jun-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X426051	25-Jun-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X426051	25-Jun-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X426051	25-Jun-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X426051	25-Jun-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X426136	01-Jul-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X426136	01-Jul-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X426136	01-Jul-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X426136	01-Jul-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X426136	01-Jul-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X425106	25-Jun-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X425237	21-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X425169	21-Jun-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X426092	26-Jun-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X426131	26-Jun-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X425195	21-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X425121	19-Jun-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X425121	19-Jun-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X425121	19-Jun-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X425121	19-Jun-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X425112	20-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X425113	20-Jun-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X425095	18-Jun-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X425095	18-Jun-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X425095	18-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X425095	18-Jun-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X425095	18-Jun-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X425095	18-Jun-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: **X4F0305**

Reported: 02-Jul-24 13:23

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes

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

EPA 200.7	Calcium	mg/L	19.8	20.0	99	85 - 115	X426147	27-Jun-24	
EPA 200.7	Magnesium	mg/L	20.5	20.0	102	85 - 115	X426147	27-Jun-24	
EPA 200.7	Potassium	mg/L	20.0	20.0	99.8	85 - 115	X426147	27-Jun-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.911	1.00	91.1	85 - 115	X426051	25-Jun-24	
EPA 200.7	Barium	mg/L	0.974	1.00	97.4	85 - 115	X426051	25-Jun-24	
EPA 200.7	Beryllium	mg/L	0.992	1.00	99.2	85 - 115	X426051	25-Jun-24	
EPA 200.7	Boron	mg/L	0.960	1.00	96.0	85 - 115	X426051	25-Jun-24	
EPA 200.7	Cadmium	mg/L	0.945	1.00	94.5	85 - 115	X426051	25-Jun-24	
EPA 200.7	Calcium	mg/L	19.5	20.0	97.3	85 - 115	X426051	25-Jun-24	
EPA 200.7	Chromium	mg/L	0.961	1.00	96.1	85 - 115	X426051	25-Jun-24	
EPA 200.7	Cobalt	mg/L	0.925	1.00	92.5	85 - 115	X426051	25-Jun-24	
EPA 200.7	Copper	mg/L	0.950	1.00	95.0	85 - 115	X426051	25-Jun-24	
EPA 200.7	Iron	mg/L	9.82	10.0	98.2	85 - 115	X426051	25-Jun-24	
EPA 200.7	Lead	mg/L	0.928	1.00	92.8	85 - 115	X426051	25-Jun-24	
EPA 200.7	Lithium	mg/L	0.918	1.00	91.8	85 - 115	X426051	25-Jun-24	
EPA 200.7	Magnesium	mg/L	19.3	20.0	96.7	85 - 115	X426051	25-Jun-24	
EPA 200.7	Manganese	mg/L	0.942	1.00	94.2	85 - 115	X426051	25-Jun-24	
EPA 200.7	Molybdenum	mg/L	0.950	1.00	95.0	85 - 115	X426051	25-Jun-24	
EPA 200.7	Nickel	mg/L	0.930	1.00	93.0	85 - 115	X426051	25-Jun-24	
EPA 200.7	Potassium	mg/L	20.7	20.0	103	85 - 115	X426051	25-Jun-24	
EPA 200.7	Silver	mg/L	0.0481	0.0500	96.1	85 - 115	X426051	25-Jun-24	
EPA 200.7	Sodium	mg/L	18.8	19.0	99.2	85 - 115	X426051	25-Jun-24	
EPA 200.7	Vanadium	mg/L	0.973	1.00	97.3	85 - 115	X426051	25-Jun-24	
EPA 200.7	Zinc	mg/L	0.957	1.00	95.7	85 - 115	X426051	25-Jun-24	
EPA 200.8	Antimony	mg/L	0.0248	0.0250	99.2	85 - 115	X426136	01-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0251	0.0250	101	85 - 115	X426136	01-Jul-24	
EPA 200.8	Selenium	mg/L	0.0259	0.0250	103	85 - 115	X426136	01-Jul-24	
EPA 200.8	Thallium	mg/L	0.0256	0.0250	102	85 - 115	X426136	01-Jul-24	
EPA 200.8	Uranium	mg/L	0.0252	0.0250	101	85 - 115	X426136	01-Jul-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00220	0.00200	110	85 - 115	X425106	25-Jun-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0940	0.100	94.0	90 - 110	X425237	21-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.0984	0.100	98.4	90 - 110	X425169	21-Jun-24	
EPA 350.1	Ammonia as N	mg/L	1.01	1.00	101	90 - 110	X426092	26-Jun-24	
OIA 1677	Cyanide (WAD)	mg/L	0.108	0.100	108	90 - 110	X426131	26-Jun-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	860	884	97.2	95.4 - 104	X425195	21-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	102	99.3	102	96.4 - 105	X425121	19-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X425113	20-Jun-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.97	3.00	98.9	90 - 110	X425095	18-Jun-24	
EPA 300.0	Fluoride	mg/L	1.96	2.00	98.0	90 - 110	X425095	18-Jun-24	
EPA 300.0	Nitrate as N	mg/L	2.01	2.00	100	90 - 110	X425095	18-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.56	4.50	101	90 - 110	X425095	18-Jun-24	
EPA 300.0	Nitrite as N	mg/L	2.56	2.50	102	90 - 110	X425095	18-Jun-24	
EPA 300.0	Sulfate as SO4	mg/L	10.3	10.0	103	90 - 110	X425095	18-Jun-24	

SVL holds the following certifications:

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

Work order Report Page 7 of 12

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0305**

Reported: 02-Jul-24 13:23

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	<10.0	<10.0	UDL	20	X425195 - X4F0175-01	21-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	117	117	0.1	20	X425121 - X4F0272-02	19-Jun-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	116	116	0.2	20	X425121 - X4F0272-02	19-Jun-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	1.60	1.50	6.5	20	X425121 - X4F0272-02	19-Jun-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X425121 - X4F0272-02	19-Jun-24	
SM 2540 C	Total Diss. Solids	mg/L	1000	971	3.2	10	X425112 - X4F0305-01	20-Jun-24	
SM 2540 C	Total Diss. Solids	mg/L	267	272	1.9	10	X425112 - X4F0314-01	20-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X425113 - X4F0314-01	20-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	7.0	7.0	0.0	10	X425113 - X4F0305-01	20-Jun-24	
SM 4500 H B	pH @20.9°C	pH Units	8.3	8.3	0.1	20	X425121 - X4F0272-02	19-Jun-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	225	213	20.0	0.30R>S	70 - 130	X426147 - X4F0305-01	27-Jun-24	M3
EPA 200.7	Calcium	mg/L	136	115	20.0	104	70 - 130	X426147 - X4F0372-02	27-Jun-24	
EPA 200.7	Magnesium	mg/L	77.1	56.5	20.0	103	70 - 130	X426147 - X4F0305-01	27-Jun-24	
EPA 200.7	Magnesium	mg/L	32.0	11.3	20.0	104	70 - 130	X426147 - X4F0372-02	27-Jun-24	
EPA 200.7	Potassium	mg/L	22.2	1.66	20.0	103	70 - 130	X426147 - X4F0305-01	27-Jun-24	
EPA 200.7	Potassium	mg/L	33.7	12.9	20.0	104	70 - 130	X426147 - X4F0372-02	27-Jun-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.911	<0.080	1.00	91.1	70 - 130	X426051 - X4F0305-01	25-Jun-24	
EPA 200.7	Aluminum	mg/L	0.858	<0.080	1.00	85.8	70 - 130	X426051 - X4F0305-02	25-Jun-24	
EPA 200.7	Barium	mg/L	0.959	0.0071	1.00	95.2	70 - 130	X426051 - X4F0305-01	25-Jun-24	
EPA 200.7	Barium	mg/L	0.964	0.0161	1.00	94.7	70 - 130	X426051 - X4F0305-02	25-Jun-24	
EPA 200.7	Beryllium	mg/L	0.994	<0.00200	1.00	99.4	70 - 130	X426051 - X4F0305-01	25-Jun-24	
EPA 200.7	Beryllium	mg/L	0.994	<0.00200	1.00	99.4	70 - 130	X426051 - X4F0305-02	25-Jun-24	
EPA 200.7	Boron	mg/L	1.00	<0.0400	1.00	98.6	70 - 130	X426051 - X4F0305-01	25-Jun-24	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	99.1	70 - 130	X426051 - X4F0305-02	25-Jun-24	
EPA 200.7	Cadmium	mg/L	0.934	<0.0020	1.00	93.4	70 - 130	X426051 - X4F0305-01	25-Jun-24	
EPA 200.7	Cadmium	mg/L	0.942	<0.0020	1.00	94.2	70 - 130	X426051 - X4F0305-02	25-Jun-24	
EPA 200.7	Calcium	mg/L	221	199	20.0	107	70 - 130	X426051 - X4F0305-01	25-Jun-24	
EPA 200.7	Calcium	mg/L	422	404	20.0	89.8	70 - 130	X426051 - X4F0305-02	25-Jun-24	
EPA 200.7	Chromium	mg/L	0.967	<0.0060	1.00	96.7	70 - 130	X426051 - X4F0305-01	25-Jun-24	
EPA 200.7	Chromium	mg/L	0.978	<0.0060	1.00	97.6	70 - 130	X426051 - X4F0305-02	25-Jun-24	
EPA 200.7	Cobalt	mg/L	0.926	0.0125	1.00	91.3	70 - 130	X426051 - X4F0305-01	25-Jun-24	
EPA 200.7	Cobalt	mg/L	0.939	0.0069	1.00	93.2	70 - 130	X426051 - X4F0305-02	25-Jun-24	
EPA 200.7	Copper	mg/L	0.991	<0.0100	1.00	99.1	70 - 130	X426051 - X4F0305-01	25-Jun-24	
EPA 200.7	Copper	mg/L	1.04	0.0146	1.00	102	70 - 130	X426051 - X4F0305-02	25-Jun-24	
EPA 200.7	Iron	mg/L	9.59	<0.100	10.0	95.9	70 - 130	X426051 - X4F0305-01	25-Jun-24	
EPA 200.7	Iron	mg/L	9.58	<0.100	10.0	95.8	70 - 130	X426051 - X4F0305-02	25-Jun-24	
EPA 200.7	Lead	mg/L	0.920	<0.0075	1.00	92.0	70 - 130	X426051 - X4F0305-01	25-Jun-24	
EPA 200.7	Lead	mg/L	0.947	0.0152	1.00	93.2	70 - 130	X426051 - X4F0305-02	25-Jun-24	
EPA 200.7	Lithium	mg/L	0.925	<0.040	1.00	92.5	70 - 130	X426051 - X4F0305-01	25-Jun-24	
EPA 200.7	Lithium	mg/L	0.974	0.042	1.00	93.3	70 - 130	X426051 - X4F0305-02	25-Jun-24	
EPA 200.7	Magnesium	mg/L	68.5	51.1	20.0	87.2	70 - 130	X426051 - X4F0305-01	25-Jun-24	
EPA 200.7	Magnesium	mg/L	173	156	20.0	83.7	70 - 130	X426051 - X4F0305-02	25-Jun-24	

SVL holds the following certifications:

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

Work order Report Page 8 of 12



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net
Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4F0305**

Reported: 02-Jul-24 13:23

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	1.04	0.0904	1.00	95.1	70 - 130	X426051 - X4F0305-01	25-Jun-24	
EPA 200.7	Manganese	mg/L	3.88	2.93	1.00	95.0	70 - 130	X426051 - X4F0305-02	25-Jun-24	
EPA 200.7	Molybdenum	mg/L	0.976	<0.0080	1.00	97.2	70 - 130	X426051 - X4F0305-01	25-Jun-24	
EPA 200.7	Molybdenum	mg/L	1.03	0.0311	1.00	99.6	70 - 130	X426051 - X4F0305-02	25-Jun-24	
EPA 200.7	Nickel	mg/L	0.922	<0.0100	1.00	92.2	70 - 130	X426051 - X4F0305-01	25-Jun-24	
EPA 200.7	Nickel	mg/L	0.958	0.0161	1.00	94.2	70 - 130	X426051 - X4F0305-02	25-Jun-24	
EPA 200.7	Potassium	mg/L	22.4	1.52	20.0	105	70 - 130	X426051 - X4F0305-01	25-Jun-24	
EPA 200.7	Potassium	mg/L	23.5	2.34	20.0	106	70 - 130	X426051 - X4F0305-02	25-Jun-24	D1
EPA 200.7	Silver	mg/L	0.0477	<0.0050	0.0500	95.3	70 - 130	X426051 - X4F0305-01	25-Jun-24	
EPA 200.7	Silver	mg/L	0.0481	<0.0050	0.0500	96.2	70 - 130	X426051 - X4F0305-02	25-Jun-24	
EPA 200.7	Sodium	mg/L	40.9	22.7	19.0	96.0	70 - 130	X426051 - X4F0305-01	25-Jun-24	
EPA 200.7	Sodium	mg/L	58.2	40.2	19.0	94.6	70 - 130	X426051 - X4F0305-02	25-Jun-24	
EPA 200.7	Vanadium	mg/L	0.993	<0.0050	1.00	99.3	70 - 130	X426051 - X4F0305-01	25-Jun-24	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X426051 - X4F0305-02	25-Jun-24	
EPA 200.7	Zinc	mg/L	1.23	0.275	1.00	95.7	70 - 130	X426051 - X4F0305-01	25-Jun-24	
EPA 200.7	Zinc	mg/L	1.29	0.300	1.00	98.6	70 - 130	X426051 - X4F0305-02	25-Jun-24	
EPA 200.8	Antimony	mg/L	0.0247	<0.00100	0.0250	98.7	70 - 130	X426136 - X4F0365-01	01-Jul-24	
EPA 200.8	Antimony	mg/L	0.0266	0.00139	0.0250	101	70 - 130	X426136 - X4F0372-01	01-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0278	0.00112	0.0250	107	70 - 130	X426136 - X4F0365-01	01-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0269	<0.00100	0.0250	106	70 - 130	X426136 - X4F0372-01	01-Jul-24	
EPA 200.8	Selenium	mg/L	0.0269	0.00101	0.0250	104	70 - 130	X426136 - X4F0365-01	01-Jul-24	
EPA 200.8	Selenium	mg/L	0.0261	<0.00100	0.0250	103	70 - 130	X426136 - X4F0372-01	01-Jul-24	
EPA 200.8	Thallium	mg/L	0.0250	<0.000200	0.0250	100	70 - 130	X426136 - X4F0365-01	01-Jul-24	
EPA 200.8	Thallium	mg/L	0.0257	<0.000200	0.0250	103	70 - 130	X426136 - X4F0372-01	01-Jul-24	
EPA 200.8	Uranium	mg/L	0.0273	0.00210	0.0250	101	70 - 130	X426136 - X4F0365-01	01-Jul-24	
EPA 200.8	Uranium	mg/L	0.0259	0.000324	0.0250	102	70 - 130	X426136 - X4F0372-01	01-Jul-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00205	<0.000200	0.00200	103	70 - 130	X425106 - X4F0251-02	25-Jun-24	
EPA 245.1	Mercury	mg/L	0.00212	<0.000200	0.00200	106	70 - 130	X425106 - X4F0228-01	25-Jun-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	<0.0050	0.100	97.0	79 - 121	X425237 - X4F0196-01	21-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.0973	<0.0050	0.100	97.3	90 - 110	X425169 - X4F0224-01	21-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.104	<0.0050	0.100	104	90 - 110	X425169 - X4F0224-02	21-Jun-24	
EPA 350.1	Ammonia as N	mg/L	1.05	<0.030	1.00	105	90 - 110	X426092 - X4F0305-02	26-Jun-24	
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	102	90 - 110	X426092 - X4F0305-01	26-Jun-24	
OIA 1677	Cyanide (WAD)	mg/L	0.100	<0.0050	0.100	100	82 - 118	X426131 - X4F0175-01	26-Jun-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	10.6	7.41	3.00	107	90 - 110	X425095 - X4F0305-01	18-Jun-24	
EPA 300.0	Chloride	mg/L	2.97	<0.20	3.00	97.9	90 - 110	X425095 - X4F0311-04	18-Jun-24	
EPA 300.0	Fluoride	mg/L	1.89	0.231	2.00	82.7	90 - 110	X425095 - X4F0305-01	18-Jun-24	M2
EPA 300.0	Fluoride	mg/L	1.95	<0.100	2.00	97.3	90 - 110	X425095 - X4F0311-04	18-Jun-24	
EPA 300.0	Nitrate as N	mg/L	2.00	<0.050	2.00	99.9	90 - 110	X425095 - X4F0305-01	18-Jun-24	
EPA 300.0	Nitrate as N	mg/L	2.01	<0.050	2.00	98.7	90 - 110	X425095 - X4F0311-04	18-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.09	<0.100	4.00	102	90 - 110	X425095 - X4F0305-01	18-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.08	<0.100	4.00	102	90 - 110	X425095 - X4F0311-04	18-Jun-24	
EPA 300.0	Nitrite as N	mg/L	2.09	<0.050	2.00	104	90 - 110	X425095 - X4F0305-01	18-Jun-24	
EPA 300.0	Nitrite as N	mg/L	2.07	<0.050	2.00	104	90 - 110	X425095 - X4F0311-04	18-Jun-24	
EPA 300.0	Sulfate as SO4	mg/L	673	675	10.0	0.30R>S	90 - 110	X425095 - X4F0305-01	18-Jun-24	D2,M4

SVL holds the following certifications:

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

Work order Report Page 9 of 12

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0305**

Reported: 02-Jul-24 13:23

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	10.3	<0.30	10.0	101	90 - 110	X425095 - X4F0311-04	18-Jun-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	227	225	20.0	0.6	20	0.30R>S	X426147 - X4F0305-01	M3
EPA 200.7	Magnesium	mg/L	75.4	77.1	20.0	2.3	20	94.3	X426147 - X4F0305-01	
EPA 200.7	Potassium	mg/L	22.3	22.2	20.0	0.6	20	103	X426147 - X4F0305-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.898	0.911	1.00	1.5	20	89.8	X426051 - X4F0305-01	
EPA 200.7	Barium	mg/L	0.948	0.959	1.00	1.2	20	94.1	X426051 - X4F0305-01	
EPA 200.7	Beryllium	mg/L	0.949	0.994	1.00	4.6	20	94.9	X426051 - X4F0305-01	
EPA 200.7	Boron	mg/L	0.994	1.00	1.00	0.7	20	97.9	X426051 - X4F0305-01	
EPA 200.7	Cadmium	mg/L	0.916	0.934	1.00	2.0	20	91.6	X426051 - X4F0305-01	
EPA 200.7	Calcium	mg/L	219	221	20.0	0.7	20	98.5	X426051 - X4F0305-01	
EPA 200.7	Chromium	mg/L	0.941	0.967	1.00	2.8	20	94.1	X426051 - X4F0305-01	
EPA 200.7	Cobalt	mg/L	0.908	0.926	1.00	2.0	20	89.5	X426051 - X4F0305-01	
EPA 200.7	Copper	mg/L	0.944	0.991	1.00	4.8	20	94.4	X426051 - X4F0305-01	
EPA 200.7	Iron	mg/L	9.42	9.59	10.0	1.8	20	94.2	X426051 - X4F0305-01	
EPA 200.7	Lead	mg/L	0.904	0.920	1.00	1.7	20	90.4	X426051 - X4F0305-01	
EPA 200.7	Lithium	mg/L	0.906	0.925	1.00	2.0	20	90.6	X426051 - X4F0305-01	
EPA 200.7	Magnesium	mg/L	68.9	68.5	20.0	0.5	20	89.0	X426051 - X4F0305-01	
EPA 200.7	Manganese	mg/L	1.00	1.04	1.00	3.9	20	91.0	X426051 - X4F0305-01	
EPA 200.7	Molybdenum	mg/L	0.956	0.976	1.00	2.1	20	95.2	X426051 - X4F0305-01	
EPA 200.7	Nickel	mg/L	0.908	0.922	1.00	1.6	20	90.8	X426051 - X4F0305-01	
EPA 200.7	Potassium	mg/L	22.4	22.4	20.0	0.2	20	104	X426051 - X4F0305-01	
EPA 200.7	Silver	mg/L	0.0478	0.0477	0.0500	0.4	20	95.6	X426051 - X4F0305-01	
EPA 200.7	Sodium	mg/L	40.5	40.9	19.0	1.1	20	93.7	X426051 - X4F0305-01	
EPA 200.7	Vanadium	mg/L	0.966	0.993	1.00	2.8	20	96.6	X426051 - X4F0305-01	
EPA 200.7	Zinc	mg/L	1.22	1.23	1.00	1.2	20	94.3	X426051 - X4F0305-01	
EPA 200.8	Antimony	mg/L	0.0254	0.0247	0.0250	2.7	20	101	X426136 - X4F0365-01	
EPA 200.8	Arsenic	mg/L	0.0264	0.0278	0.0250	5.1	20	101	X426136 - X4F0365-01	
EPA 200.8	Selenium	mg/L	0.0265	0.0269	0.0250	1.5	20	102	X426136 - X4F0365-01	
EPA 200.8	Thallium	mg/L	0.0250	0.0250	0.0250	0.0	20	100	X426136 - X4F0365-01	
EPA 200.8	Uranium	mg/L	0.0271	0.0273	0.0250	0.5	20	100	X426136 - X4F0365-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00208	0.00205	0.00200	1.5	20	104	X425106 - X4F0251-02	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0960	0.0970	0.100	1.0	11	96.0	X425237 - X4F0196-01	
EPA 335.4	Cyanide (total)	mg/L	0.100	0.0973	0.100	2.7	20	100	X425169 - X4F0224-01	
EPA 350.1	Ammonia as N	mg/L	1.05	1.05	1.00	0.4	20	105	X426092 - X4F0305-02	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	0.100	2.0	11	102	X426131 - X4F0175-01	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	10.7	10.6	3.00	0.4	20	108	X425095 - X4F0305-01	
EPA 300.0	Fluoride	mg/L	1.85	1.89	2.00	1.8	20	81.1	X425095 - X4F0305-01	M2
EPA 300.0	Nitrate as N	mg/L	2.04	2.00	2.00	2.0	20	102	X425095 - X4F0305-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.16	4.09	4.00	1.7	20	104	X425095 - X4F0305-01	
EPA 300.0	Nitrite as N	mg/L	2.12	2.09	2.00	1.4	20	106	X425095 - X4F0305-01	



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Newmont - Cripple Creek & Victor				Project Name: Cripple Creek/Victor Water and Soil 2024			
Post Office Box 191				Work Order: X4F0305			
Victor, CO 80860				Reported: 02-Jul-24 13:23			

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	673	673	10.0	0.1	20	0.30R>S	X425095 - X4F0305-01	D2,M4



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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0305**

Reported: 02-Jul-24 13:23

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0505**

Reported: 23-Jul-24 10:15

Client Sample ID: **WCMW-6**

Sampled: 27-Jun-24 10:47

Received: 28-Jun-24

Sampled By: TR

SVL Sample ID: **X4F0505-01 (Ground Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	41.8	mg/L	0.100	0.069		X427101	SJN	07/09/24 13:21	
EPA 200.7	Magnesium	10.4	mg/L	0.500	0.090		X427101	SJN	07/09/24 13:21	
EPA 200.7	Potassium	2.05	mg/L	0.50	0.18		X427101	SJN	07/09/24 13:21	
SM 2340 B	Hardness (as CaCO3)	147	mg/L	2.31	0.543		N/A		07/03/24 14:11	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X427086	NMS	07/03/24 14:11	
EPA 200.7	Barium	0.0386	mg/L	0.0020	0.0019		X427086	NMS	07/03/24 14:11	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X427086	NMS	07/03/24 14:11	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X427086	NMS	07/03/24 14:11	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X427086	NMS	07/03/24 14:11	
EPA 200.7	Calcium	40.2	mg/L	0.100	0.069		X427086	NMS	07/03/24 14:11	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X427086	NMS	07/03/24 14:11	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X427086	NMS	07/03/24 14:11	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X427086	NMS	07/03/24 14:11	
EPA 200.7	Iron	0.903	mg/L	0.100	0.056		X427086	NMS	07/03/24 14:11	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X427086	NMS	07/03/24 14:11	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X427086	SJN	07/03/24 15:50	
EPA 200.7	Magnesium	10.6	mg/L	0.500	0.090		X427086	NMS	07/03/24 14:11	
EPA 200.7	Manganese	0.165	mg/L	0.0080	0.0034		X427086	NMS	07/03/24 14:11	
EPA 200.7	Molybdenum	0.0091	mg/L	0.0080	0.0034		X427086	NMS	07/03/24 14:11	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X427086	NMS	07/03/24 14:11	
EPA 200.7	Potassium	2.22	mg/L	0.50	0.18		X427086	NMS	07/03/24 14:11	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X427086	NMS	07/03/24 14:11	
EPA 200.7	Sodium	15.6	mg/L	0.50	0.12		X427086	NMS	07/03/24 14:11	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X427086	NMS	07/03/24 14:11	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X427086	NMS	07/03/24 14:11	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X428047	SMU	07/10/24 07:19	
EPA 200.8	Arsenic	0.00473	mg/L	0.00100	0.00021		X428047	SMU	07/10/24 07:19	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X428047	SMU	07/10/24 07:19	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X428047	SMU	07/10/24 07:19	
EPA 200.8	Uranium	0.000786	mg/L	0.000100	0.000052		X428047	SMU	07/10/24 07:19	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X427021	MAC	07/08/24 13:29	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @24.0°C	< 0.0050	mg/L	0.0050	0.0048		X428139	DD	07/11/24 14:32	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X427001	DD	07/02/24 16:54	
EPA 350.1	Ammonia as N	0.049	mg/L	0.030	0.013		X428064	DD	07/12/24 13:47	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X428037	DD	07/09/24 11:52	
SM 2310 B	Acidity to pH 8.3	-133	mg/L as CaCO3	10.0			X428057	MWD	07/09/24 11:51	
SM 2320 B	Total Alkalinity	129	mg/L as CaCO3	1.0			X427049	MWD	07/02/24 11:01	
SM 2320 B	Bicarbonate	129	mg/L as CaCO3	1.0			X427049	MWD	07/02/24 11:01	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X427049	MWD	07/02/24 11:01	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X427049	MWD	07/02/24 11:01	
SM 2540 C	Total Diss. Solids	205	mg/L	10			X426253	TJL	07/01/24 13:25	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X426254	TJL	07/01/24 12:50	
SM 4500 H B	pH @19.2°C	7.5	pH Units				X427049	MWD	07/02/24 11:01	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 12



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Kellogg, ID 83837-0929
(208) 784-1258
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Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4F0505 Reported: 23-Jul-24 10:15

Client Sample ID: **WCMW-6**
SVL Sample ID: **X4F0505-01 (Ground Water)**

Sampled: 27-Jun-24 10:47
Received: 28-Jun-24
Sampled By: TR

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	2.29	mg/L	0.20	0.02		X426251	RS	06/28/24 10:58	
EPA 300.0	Chloride	2.32	mg/L	0.20	0.02		X429051	KAG	07/15/24 14:31	N1
EPA 300.0	Chloride	2.31	mg/L	0.20	0.02		X429051	KAG	07/15/24 15:02	N1
EPA 300.0	Fluoride	2.10	mg/L	0.100	0.017		X426251	RS	06/28/24 10:58	
EPA 300.0	Fluoride	2.16	mg/L	0.100	0.017		X429051	KAG	07/15/24 14:31	N1
EPA 300.0	Fluoride	2.11	mg/L	0.100	0.017		X429051	KAG	07/15/24 15:02	N1
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X426251	RS	06/28/24 10:58	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X429051	KAG	07/15/24 14:31	H1,N1
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X429051	KAG	07/15/24 15:02	H1,N1
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X426251	RS	06/28/24 10:58	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X429051	KAG	07/15/24 14:31	H1,N1
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X429051	KAG	07/15/24 15:02	H1,N1
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X426251	RS	06/28/24 10:58	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X429051	KAG	07/15/24 14:31	H1,N1
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X429051	KAG	07/15/24 15:02	H1,N1
EPA 300.0	Sulfate as SO4	56.5	mg/L	3.00	1.80	10	X426251	RS	06/28/24 11:14	M4
EPA 300.0	Sulfate as SO4	56.3	mg/L	3.00	1.80	10	X429051	KAG	07/15/24 14:46	N1
EPA 300.0	Sulfate as SO4	56.9	mg/L	3.00	1.80	10	X429051	KAG	07/15/24 15:18	N1

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.65 meq/L

Anion Sum: 3.93 meq/L

C/A Balance: -3.73 %

Calculated TDS: 208

TDS/cTDS: 0.99

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

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0505**

Reported: 23-Jul-24 10:15

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes

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

EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X427101	09-Jul-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X427101	09-Jul-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X427101	09-Jul-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X427086	03-Jul-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X427086	03-Jul-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X427086	03-Jul-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X427086	03-Jul-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X427086	03-Jul-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X427086	03-Jul-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X427086	03-Jul-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X427086	03-Jul-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X427086	03-Jul-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X427086	03-Jul-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X427086	03-Jul-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X427086	03-Jul-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X427086	03-Jul-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X427086	03-Jul-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X427086	03-Jul-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X427086	03-Jul-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X427086	03-Jul-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X427086	03-Jul-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X427086	03-Jul-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X427086	03-Jul-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X427086	03-Jul-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X428047	10-Jul-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X428047	10-Jul-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X428047	10-Jul-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X428047	10-Jul-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X428047	10-Jul-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X427021	08-Jul-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X428139	11-Jul-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X427001	02-Jul-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X428064	12-Jul-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X428037	09-Jul-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X428057	09-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X427049	02-Jul-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X427049	02-Jul-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X427049	02-Jul-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X427049	02-Jul-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X426253	01-Jul-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X426254	01-Jul-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X426251	28-Jun-24	
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X429051	15-Jul-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X426251	28-Jun-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X429051	15-Jul-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X426251	28-Jun-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X429051	15-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X426251	28-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X429051	15-Jul-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X426251	28-Jun-24	

SVL holds the following certifications:

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

Work order Report Page 6 of 12



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Kellogg, ID 83837-0929

(208) 784-1258

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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0505**

Reported: 23-Jul-24 10:15

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	X429051	15-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X426251	28-Jun-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X429051	15-Jul-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	19.4	20.0	97	85 - 115	X427101	09-Jul-24	
EPA 200.7	Magnesium	mg/L	18.8	20.0	93.9	85 - 115	X427101	09-Jul-24	
EPA 200.7	Potassium	mg/L	19.6	20.0	97.8	85 - 115	X427101	09-Jul-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.923	1.00	92.3	85 - 115	X427086	03-Jul-24	
EPA 200.7	Barium	mg/L	0.927	1.00	92.7	85 - 115	X427086	03-Jul-24	
EPA 200.7	Beryllium	mg/L	0.957	1.00	95.7	85 - 115	X427086	03-Jul-24	
EPA 200.7	Boron	mg/L	0.937	1.00	93.7	85 - 115	X427086	03-Jul-24	
EPA 200.7	Cadmium	mg/L	0.938	1.00	93.8	85 - 115	X427086	03-Jul-24	
EPA 200.7	Calcium	mg/L	19.3	20.0	96.3	85 - 115	X427086	03-Jul-24	
EPA 200.7	Chromium	mg/L	0.940	1.00	94.0	85 - 115	X427086	03-Jul-24	
EPA 200.7	Cobalt	mg/L	0.921	1.00	92.1	85 - 115	X427086	03-Jul-24	
EPA 200.7	Copper	mg/L	0.930	1.00	93.0	85 - 115	X427086	03-Jul-24	
EPA 200.7	Iron	mg/L	9.72	10.0	97.2	85 - 115	X427086	03-Jul-24	
EPA 200.7	Lead	mg/L	0.922	1.00	92.2	85 - 115	X427086	03-Jul-24	
EPA 200.7	Lithium	mg/L	0.946	1.00	94.6	85 - 115	X427086	03-Jul-24	
EPA 200.7	Magnesium	mg/L	19.3	20.0	96.5	85 - 115	X427086	03-Jul-24	
EPA 200.7	Manganese	mg/L	0.917	1.00	91.7	85 - 115	X427086	03-Jul-24	
EPA 200.7	Molybdenum	mg/L	0.947	1.00	94.7	85 - 115	X427086	03-Jul-24	
EPA 200.7	Nickel	mg/L	0.929	1.00	92.9	85 - 115	X427086	03-Jul-24	
EPA 200.7	Potassium	mg/L	19.2	20.0	96.2	85 - 115	X427086	03-Jul-24	
EPA 200.7	Silver	mg/L	0.0462	0.0500	92.4	85 - 115	X427086	03-Jul-24	
EPA 200.7	Sodium	mg/L	18.5	19.0	97.2	85 - 115	X427086	03-Jul-24	
EPA 200.7	Vanadium	mg/L	0.942	1.00	94.2	85 - 115	X427086	03-Jul-24	
EPA 200.7	Zinc	mg/L	0.953	1.00	95.3	85 - 115	X427086	03-Jul-24	
EPA 200.8	Antimony	mg/L	0.0241	0.0250	96.2	85 - 115	X428047	10-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0238	0.0250	95.3	85 - 115	X428047	10-Jul-24	
EPA 200.8	Selenium	mg/L	0.0232	0.0250	92.9	85 - 115	X428047	10-Jul-24	
EPA 200.8	Thallium	mg/L	0.0241	0.0250	96.3	85 - 115	X428047	10-Jul-24	
EPA 200.8	Uranium	mg/L	0.0238	0.0250	95.1	85 - 115	X428047	10-Jul-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00210	0.00200	105	85 - 115	X427021	08-Jul-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.103	0.100	103	90 - 110	X428139	11-Jul-24	
EPA 335.4	Cyanide (total)	mg/L	0.0989	0.100	98.9	90 - 110	X427001	02-Jul-24	
EPA 350.1	Ammonia as N	mg/L	0.994	1.00	99.4	90 - 110	X428064	12-Jul-24	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	101	90 - 110	X428037	09-Jul-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	889	884	101	95.4 - 104	X428057	09-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	96.4 - 105	X427049	02-Jul-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X426254	01-Jul-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.16	3.00	105	90 - 110	X429051	15-Jul-24	

SVL holds the following certifications:

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

Work order Report Page 7 of 12

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0505**

Reported: 23-Jul-24 10:15

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	Chloride	mg/L	3.06	3.00	102	90 - 110	X426251	28-Jun-24	
EPA 300.0	Fluoride	mg/L	2.09	2.00	105	90 - 110	X429051	15-Jul-24	
EPA 300.0	Fluoride	mg/L	2.03	2.00	101	90 - 110	X426251	28-Jun-24	
EPA 300.0	Nitrate as N	mg/L	2.14	2.00	107	90 - 110	X429051	15-Jul-24	
EPA 300.0	Nitrate as N	mg/L	2.09	2.00	104	90 - 110	X426251	28-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.86	4.50	108	90 - 110	X429051	15-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.72	4.50	105	90 - 110	X426251	28-Jun-24	
EPA 300.0	Nitrite as N	mg/L	2.72	2.50	109	90 - 110	X429051	15-Jul-24	
EPA 300.0	Nitrite as N	mg/L	2.64	2.50	106	90 - 110	X426251	28-Jun-24	
EPA 300.0	Sulfate as SO4	mg/L	10.9	10.0	109	90 - 110	X429051	15-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	10.7	10.0	107	90 - 110	X426251	28-Jun-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	X428057 - X4F0505-02	09-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	161	161	0.1	20	X427049 - X4F0505-02	02-Jul-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	161	161	0.1	20	X427049 - X4F0505-02	02-Jul-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X427049 - X4F0505-02	02-Jul-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X427049 - X4F0505-02	02-Jul-24	
SM 2540 C	Total Diss. Solids	mg/L	213	205	3.8	10	X426253 - X4F0505-01	01-Jul-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X426254 - X4F0505-01	01-Jul-24	
SM 4500 H B	pH @19.2°C	pH Units	7.8	7.8	0.5	20	X427049 - X4F0505-02	02-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	63.3	41.8	20.0	107	70 - 130	X427101 - X4F0505-01	09-Jul-24	
EPA 200.7	Calcium	mg/L	33.4	12.8	20.0	103	70 - 130	X427101 - X4F0521-10	09-Jul-24	
EPA 200.7	Magnesium	mg/L	30.8	10.4	20.0	102	70 - 130	X427101 - X4F0505-01	09-Jul-24	
EPA 200.7	Magnesium	mg/L	24.6	4.46	20.0	100	70 - 130	X427101 - X4F0521-10	09-Jul-24	
EPA 200.7	Potassium	mg/L	22.6	2.05	20.0	103	70 - 130	X427101 - X4F0505-01	09-Jul-24	
EPA 200.7	Potassium	mg/L	20.9	0.58	20.0	102	70 - 130	X427101 - X4F0521-10	09-Jul-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.895	<0.080	1.00	89.5	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Aluminum	mg/L	0.893	<0.080	1.00	89.3	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Barium	mg/L	0.964	0.0547	1.00	90.9	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Barium	mg/L	0.984	0.0537	1.00	93.1	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Beryllium	mg/L	0.966	<0.00200	1.00	96.6	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Beryllium	mg/L	0.980	<0.00200	1.00	98.0	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Boron	mg/L	1.06	0.0947	1.00	96.4	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Boron	mg/L	1.00	<0.0400	1.00	97.3	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Cadmium	mg/L	0.918	<0.0020	1.00	91.8	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Cadmium	mg/L	0.929	<0.0020	1.00	92.9	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Calcium	mg/L	207	186	20.0	108	70 - 130	X427086 - X4F0406-01	03-Jul-24	

SVL holds the following certifications:

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

Work order Report Page 8 of 12

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0505**

Reported: 23-Jul-24 10:15

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Calcium	mg/L	122	104	20.0	89.6	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Chromium	mg/L	0.938	<0.0060	1.00	93.8	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Chromium	mg/L	0.948	<0.0060	1.00	94.8	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Cobalt	mg/L	0.928	<0.0060	1.00	92.8	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Cobalt	mg/L	0.942	0.0122	1.00	93.0	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Copper	mg/L	0.971	<0.0100	1.00	96.8	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Copper	mg/L	0.987	<0.0100	1.00	97.9	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Iron	mg/L	10.1	0.329	10.0	97.6	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Iron	mg/L	10.4	0.726	10.0	97.0	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Lead	mg/L	0.908	<0.0075	1.00	90.8	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Lead	mg/L	0.928	0.0120	1.00	91.6	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Lithium	mg/L	0.987	<0.040	1.00	95.4	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Lithium	mg/L	1.04	0.072	1.00	97.0	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Magnesium	mg/L	44.3	24.4	20.0	99.3	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Magnesium	mg/L	56.6	38.4	20.0	90.7	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Manganese	mg/L	1.14	0.229	1.00	91.2	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Manganese	mg/L	1.50	0.578	1.00	91.9	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Molybdenum	mg/L	0.973	0.0107	1.00	96.2	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Molybdenum	mg/L	1.02	0.0555	1.00	96.9	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Nickel	mg/L	0.927	<0.0100	1.00	92.7	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Nickel	mg/L	0.939	<0.0100	1.00	93.9	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Potassium	mg/L	22.7	3.64	20.0	95.5	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Potassium	mg/L	20.1	1.32	20.0	94.1	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Silver	mg/L	0.0453	<0.0050	0.0500	90.6	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Silver	mg/L	0.0453	<0.0050	0.0500	90.6	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Sodium	mg/L	152	133	19.0	98.0	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Sodium	mg/L	139	123	19.0	84.7	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Vanadium	mg/L	0.960	<0.0050	1.00	96.0	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Vanadium	mg/L	0.968	<0.0050	1.00	96.8	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Zinc	mg/L	0.961	<0.0100	1.00	96.1	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Zinc	mg/L	0.965	<0.0100	1.00	96.5	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.8	Antimony	mg/L	0.0257	<0.00100	0.0250	103	70 - 130	X428047 - X4F0468-10	10-Jul-24	
EPA 200.8	Antimony	mg/L	0.0271	<0.00100	0.0250	108	70 - 130	X428047 - X4F0505-01	10-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0257	<0.00100	0.0250	101	70 - 130	X428047 - X4F0468-10	10-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0308	0.00473	0.0250	104	70 - 130	X428047 - X4F0505-01	10-Jul-24	
EPA 200.8	Selenium	mg/L	0.0262	0.00152	0.0250	98.7	70 - 130	X428047 - X4F0468-10	10-Jul-24	
EPA 200.8	Selenium	mg/L	0.0239	<0.00100	0.0250	95.7	70 - 130	X428047 - X4F0505-01	10-Jul-24	
EPA 200.8	Thallium	mg/L	0.0243	<0.000200	0.0250	97.2	70 - 130	X428047 - X4F0468-10	10-Jul-24	
EPA 200.8	Thallium	mg/L	0.0260	<0.000200	0.0250	104	70 - 130	X428047 - X4F0505-01	10-Jul-24	
EPA 200.8	Uranium	mg/L	0.0285	0.00413	0.0250	97.5	70 - 130	X428047 - X4F0468-10	10-Jul-24	
EPA 200.8	Uranium	mg/L	0.0270	0.000786	0.0250	105	70 - 130	X428047 - X4F0505-01	10-Jul-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00251	0.000391	0.00200	106	70 - 130	X427021 - X4G0040-01	08-Jul-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.100	<0.0050	0.100	100	79 - 121	X428139 - X4F0505-01	11-Jul-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X427001 - X4F0423-02	02-Jul-24	
EPA 335.4	Cyanide (total)	mg/L	0.0989	<0.0050	0.100	98.9	90 - 110	X427001 - X4F0423-03	02-Jul-24	
EPA 350.1	Ammonia as N	mg/L	0.981	0.049	1.00	93.2	90 - 110	X428064 - X4F0505-01	12-Jul-24	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4F0505**

Reported: 23-Jul-24 10:15

Quality Control - MATRIX SPIKE Data (Continued)

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

Classical Chemistry Parameters (Continued)

EPA 350.1	Ammonia as N	mg/L	0.978	<0.030	1.00	97.8	90 - 110	X428064 - X4F0505-02	12-Jul-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0970	<0.0050	0.100	96.0	82 - 118	X428037 - X4F0453-01	09-Jul-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	7.44	4.11	3.00	111	90 - 110	X429051 - X4G0215-06	16-Jul-24	M1
EPA 300.0	Chloride	mg/L	19.0	16.1	3.00	94.8	90 - 110	X429051 - X4G0214-02	19-Jul-24	
EPA 300.0	Chloride	mg/L	5.49	2.29	3.00	107	90 - 110	X426251 - X4F0505-01	28-Jun-24	
EPA 300.0	Fluoride	mg/L	2.26	0.184	2.00	104	90 - 110	X429051 - X4G0215-06	16-Jul-24	
EPA 300.0	Fluoride	mg/L	4.70	2.73	2.00	98.8	90 - 110	X429051 - X4G0214-02	19-Jul-24	
EPA 300.0	Fluoride	mg/L	4.19	2.10	2.00	104	90 - 110	X426251 - X4F0505-01	28-Jun-24	
EPA 300.0	Nitrate as N	mg/L	3.47	1.31	2.00	108	90 - 110	X429051 - X4G0215-06	16-Jul-24	
EPA 300.0	Nitrate as N	mg/L	0.097	<0.050	2.00	3.38	90 - 110	X429051 - X4G0214-02	19-Jul-24	M2
EPA 300.0	Nitrate as N	mg/L	2.10	<0.050	2.00	105	90 - 110	X426251 - X4F0505-01	28-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.71	1.34	4.00	109	90 - 110	X429051 - X4G0215-06	16-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	2.19	<0.100	4.00	54.8	90 - 110	X429051 - X4G0214-02	19-Jul-24	M2
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.29	<0.100	4.00	107	90 - 110	X426251 - X4F0505-01	28-Jun-24	
EPA 300.0	Nitrite as N	mg/L	2.24	<0.050	2.00	110	90 - 110	X429051 - X4G0215-06	16-Jul-24	
EPA 300.0	Nitrite as N	mg/L	2.09	<0.050	2.00	105	90 - 110	X429051 - X4G0214-02	19-Jul-24	
EPA 300.0	Nitrite as N	mg/L	2.19	<0.050	2.00	109	90 - 110	X426251 - X4F0505-01	28-Jun-24	
EPA 300.0	Sulfate as SO4	mg/L	44.4	34.0	10.0	104	90 - 110	X429051 - X4G0215-06	16-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	1290	1260	10.0	0.30R>S	90 - 110	X429051 - X4G0214-02	19-Jul-24	M4
EPA 300.0	Sulfate as SO4	mg/L	65.4	56.5	10.0	0.30R>S	90 - 110	X426251 - X4F0505-01	28-Jun-24	M4

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes

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

EPA 200.7	Calcium	mg/L	63.8	63.3	20.0	0.7	20	110	X427101 - X4F0505-01	
EPA 200.7	Magnesium	mg/L	31.3	30.8	20.0	1.5	20	105	X427101 - X4F0505-01	
EPA 200.7	Potassium	mg/L	22.8	22.6	20.0	0.8	20	104	X427101 - X4F0505-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.915	0.895	1.00	2.2	20	91.5	X427086 - X4F0406-01	
EPA 200.7	Barium	mg/L	0.988	0.964	1.00	2.4	20	93.3	X427086 - X4F0406-01	
EPA 200.7	Beryllium	mg/L	0.985	0.966	1.00	2.0	20	98.5	X427086 - X4F0406-01	
EPA 200.7	Boron	mg/L	1.08	1.06	1.00	1.8	20	98.2	X427086 - X4F0406-01	
EPA 200.7	Cadmium	mg/L	0.929	0.918	1.00	1.2	20	92.9	X427086 - X4F0406-01	
EPA 200.7	Calcium	mg/L	206	207	20.0	0.4	20	104	X427086 - X4F0406-01	
EPA 200.7	Chromium	mg/L	0.948	0.938	1.00	1.1	20	94.8	X427086 - X4F0406-01	
EPA 200.7	Cobalt	mg/L	0.937	0.928	1.00	0.9	20	93.7	X427086 - X4F0406-01	
EPA 200.7	Copper	mg/L	0.981	0.971	1.00	1.0	20	97.8	X427086 - X4F0406-01	
EPA 200.7	Iron	mg/L	10.3	10.1	10.0	1.9	20	99.5	X427086 - X4F0406-01	
EPA 200.7	Lead	mg/L	0.917	0.908	1.00	1.0	20	91.7	X427086 - X4F0406-01	
EPA 200.7	Lithium	mg/L	0.983	0.987	1.00	0.4	20	95.0	X427086 - X4F0406-01	
EPA 200.7	Magnesium	mg/L	44.2	44.3	20.0	0.3	20	98.7	X427086 - X4F0406-01	
EPA 200.7	Manganese	mg/L	1.15	1.14	1.00	0.6	20	91.9	X427086 - X4F0406-01	
EPA 200.7	Molybdenum	mg/L	0.985	0.973	1.00	1.3	20	97.5	X427086 - X4F0406-01	
EPA 200.7	Nickel	mg/L	0.938	0.927	1.00	1.1	20	93.8	X427086 - X4F0406-01	
EPA 200.7	Potassium	mg/L	23.1	22.7	20.0	1.6	20	97.4	X427086 - X4F0406-01	
EPA 200.7	Silver	mg/L	0.0456	0.0453	0.0500	0.8	20	91.3	X427086 - X4F0406-01	
EPA 200.7	Sodium	mg/L	152	152	19.0	0.0	20	97.7	X427086 - X4F0406-01	

SVL holds the following certifications:

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

Work order Report Page 10 of 12



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0505**

Reported: 23-Jul-24 10:15

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Vanadium	mg/L	0.974	0.960	1.00	1.5	20	97.4	X427086 - X4F0406-01	
EPA 200.7	Zinc	mg/L	0.970	0.961	1.00	0.9	20	97.0	X427086 - X4F0406-01	
EPA 200.8	Antimony	mg/L	0.0253	0.0257	0.0250	1.5	20	101	X428047 - X4F0468-10	
EPA 200.8	Arsenic	mg/L	0.0251	0.0257	0.0250	2.5	20	98.8	X428047 - X4F0468-10	
EPA 200.8	Selenium	mg/L	0.0248	0.0262	0.0250	5.7	20	92.9	X428047 - X4F0468-10	
EPA 200.8	Thallium	mg/L	0.0243	0.0243	0.0250	0.1	20	97.3	X428047 - X4F0468-10	
EPA 200.8	Uranium	mg/L	0.0288	0.0285	0.0250	0.9	20	98.5	X428047 - X4F0468-10	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00256	0.00251	0.00200	2.0	20	108	X427021 - X4G0040-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0950	0.100	0.100	5.1	11	95.0	X428139 - X4F0505-01	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.103	0.100	0.8	20	104	X427001 - X4F0423-02	
EPA 350.1	Ammonia as N	mg/L	1.07	0.981	1.00	8.3	20	102	X428064 - X4F0505-01	
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.0970	0.100	6.0	11	102	X428037 - X4F0453-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	5.46	5.49	3.00	0.5	20	106	X426251 - X4F0505-01	
EPA 300.0	Chloride	mg/L	18.5	19.0	3.00	2.7	20	0.30R>S	X429051 - X4G0214-02	M4
EPA 300.0	Fluoride	mg/L	4.25	4.19	2.00	1.4	20	107	X426251 - X4F0505-01	
EPA 300.0	Fluoride	mg/L	4.74	4.70	2.00	0.7	20	100	X429051 - X4G0214-02	
EPA 300.0	Nitrate as N	mg/L	2.09	2.10	2.00	0.6	20	104	X426251 - X4F0505-01	
EPA 300.0	Nitrate as N	mg/L	0.087	0.097	2.00	11.4	20	2.85	X429051 - X4G0214-02	M2
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.27	4.29	4.00	0.5	20	107	X426251 - X4F0505-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	2.24	2.19	4.00	2.1	20	55.9	X429051 - X4G0214-02	M2
EPA 300.0	Nitrite as N	mg/L	2.18	2.19	2.00	0.4	20	109	X426251 - X4F0505-01	
EPA 300.0	Nitrite as N	mg/L	2.15	2.09	2.00	2.6	20	107	X429051 - X4G0214-02	
EPA 300.0	Sulfate as SO4	mg/L	66.7	65.4	10.0	2.0	20	102	X426251 - X4F0505-01	
EPA 300.0	Sulfate as SO4	mg/L	1250	1290	10.0	2.5	20	0.30R>S	X429051 - X4G0214-02	M4



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0505**

Reported: 23-Jul-24 10:15

Notes and Definitions

D1	Sample required dilution due to matrix.
H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
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.
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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Groundwater Grassy Valley Wells



One Government Gulch - PO Box 929

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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0124**

Reported: 02-May-24 14:24

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

Sampled: 04-Apr-24 08:43

Received: 05-Apr-24

Sampled By: PB

SVL Sample ID: **X4D0124-01 (Ground Water)**
Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	44.2	mg/L	0.100	0.069		X416077	NMS	04/19/24 11:59	
EPA 200.7	Magnesium	6.90	mg/L	0.500	0.090		X416077	NMS	04/19/24 11:59	
EPA 200.7	Potassium	1.39	mg/L	0.50	0.18		X416077	NMS	04/19/24 11:59	
SM 2340 B	Hardness (as CaCO3)	138	mg/L	2.31	0.543		N/A		04/19/24 11:59	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X415016	NMS	04/09/24 12:44	
EPA 200.7	Barium	0.0065	mg/L	0.0020	0.0019		X415016	NMS	04/09/24 12:44	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X415016	NMS	04/09/24 12:44	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X415016	NMS	04/09/24 12:44	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X415016	NMS	04/09/24 12:44	
EPA 200.7	Calcium	43.7	mg/L	0.100	0.069		X415016	NMS	04/09/24 12:44	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X415016	NMS	04/09/24 12:44	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X415016	NMS	04/09/24 12:44	
EPA 200.7	Copper	0.0234	mg/L	0.0100	0.0027		X415016	NMS	04/09/24 12:44	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X415016	NMS	04/09/24 12:44	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X415016	NMS	04/09/24 12:44	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X415016	NMS	04/09/24 12:44	
EPA 200.7	Magnesium	7.02	mg/L	0.500	0.090		X415016	NMS	04/09/24 12:44	
EPA 200.7	Manganese	0.0087	mg/L	0.0080	0.0034		X415016	NMS	04/09/24 12:44	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X415016	NMS	04/09/24 12:44	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X415016	NMS	04/09/24 12:44	
EPA 200.7	Potassium	1.40	mg/L	0.50	0.18		X415016	NMS	04/09/24 12:44	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X415016	NMS	04/09/24 12:44	
EPA 200.7	Sodium	24.8	mg/L	0.50	0.12		X415016	NMS	04/09/24 12:44	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X415016	NMS	04/09/24 12:44	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X415016	NMS	04/09/24 12:44	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X415044	SMU	04/13/24 15:48	M1
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X415044	SMU	04/13/24 15:48	M1
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X415044	SMU	04/13/24 15:48	M1
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X415044	SMU	04/13/24 15:48	
EPA 200.8	Uranium	0.00230	mg/L	0.000100	0.000052		X415044	SMU	04/13/24 15:48	M1
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X415207	MAC	04/15/24 16:37	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X415113	DD	04/10/24 13:18	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X415003	DD	04/08/24 14:37	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X415055	DD	04/10/24 09:53	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X416129	DD	04/26/24 13:36	H1
SM 2310 B	Acidity to pH 8.3	-35.5	mg/L as CaCO3	10.0			X415194	MWD	04/12/24 09:40	
SM 2320 B	Total Alkalinity	37.4	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 17:31	
SM 2320 B	Bicarbonate	37.4	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 17:31	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 17:31	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 17:31	
SM 2540 C	Total Diss. Solids	299	mg/L	10			X415009	TJL	04/09/24 14:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X415011	TJL	04/09/24 15:20	
SM 4500 H B	pH @18.8°C	6.7	pH Units				X414208	MWD	04/08/24 17:31	H5

SVL holds the following certifications:

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

Work



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(208) 784-1258
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Newmont - Cripple Creek & Victor	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4D0124
Victor, CO 80860	Reported: 02-May-24 14:24

Client Sample ID: GVMW-8B

SVL Sample ID: X4D0124-01 (Ground Water)

Sample Report Page 2 of 2

Sampled: 04-Apr-24 08:43
Received: 05-Apr-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	25.8	mg/L	2.00	0.22	10	X414122	RS	04/05/24 15:48	D2
EPA 300.0	Fluoride	2.20	mg/L	0.100	0.017		X414122	RS	04/05/24 15:30	
EPA 300.0	Nitrate as N	2.13	mg/L	0.050	0.013		X414122	RS	04/05/24 15:30	
EPA 300.0	Nitrate+Nitrite as N	2.13	mg/L	0.100	0.044		X414122	RS	04/05/24 15:30	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X414122	RS	04/05/24 15:30	
EPA 300.0	Sulfate as SO4	109	mg/L	3.00	1.80	10	X414122	RS	04/05/24 15:48	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.88 meq/L	Anion Sum: 4.01 meq/L	C/A Balance: -1.72 %	Calculated TDS: 246	TDS/cTDS: 1.22

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

Kathryn Salter

Kathryn Salter
Project Manager


Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0124**

Reported: 02-May-24 14:24

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

Sampled: 04-Apr-24 09:30

Received: 05-Apr-24

Sampled By: PB

SVL Sample ID: **X4D0124-02 (Ground Water)**
Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes

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

EPA 200.7	Calcium	52.1	mg/L	0.100	0.069		X416077	NMS	04/19/24 12:03	
EPA 200.7	Magnesium	6.58	mg/L	0.500	0.090		X416077	NMS	04/19/24 12:03	
EPA 200.7	Potassium	0.78	mg/L	0.50	0.18		X416077	NMS	04/19/24 12:03	
SM 2340 B	Hardness (as CaCO3)	153	mg/L	2.31	0.543		N/A		04/09/24 12:48	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X415016	NMS	04/09/24 12:48	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X415016	NMS	04/09/24 12:48	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X415016	NMS	04/09/24 12:48	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X415016	NMS	04/09/24 12:48	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X415016	NMS	04/09/24 12:48	
EPA 200.7	Calcium	50.5	mg/L	0.100	0.069		X415016	NMS	04/09/24 12:48	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X415016	NMS	04/09/24 12:48	
EPA 200.7	Cobalt	0.0074	mg/L	0.0060	0.0046		X415016	NMS	04/09/24 12:48	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X415016	NMS	04/09/24 12:48	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X415016	NMS	04/09/24 12:48	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X415016	NMS	04/09/24 12:48	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X415016	NMS	04/09/24 12:48	
EPA 200.7	Magnesium	6.57	mg/L	0.500	0.090		X415016	NMS	04/09/24 12:48	
EPA 200.7	Manganese	0.0112	mg/L	0.0080	0.0034		X415016	NMS	04/09/24 12:48	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X415016	NMS	04/09/24 12:48	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X415016	NMS	04/09/24 12:48	
EPA 200.7	Potassium	0.76	mg/L	0.50	0.18		X415016	NMS	04/09/24 12:48	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X415016	NMS	04/09/24 12:48	
EPA 200.7	Sodium	24.4	mg/L	0.50	0.12		X415016	NMS	04/09/24 12:48	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X415016	NMS	04/09/24 12:48	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X415016	NMS	04/09/24 12:48	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X415044	SMU	04/13/24 15:53	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X415044	SMU	04/13/24 15:53	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X415044	SMU	04/13/24 15:53	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X415044	SMU	04/13/24 15:53	
EPA 200.8	Uranium	0.00496	mg/L	0.000100	0.000052		X415044	SMU	04/13/24 15:53	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X415207	MAC	04/15/24 16:44	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X415113	DD	04/10/24 13:20	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X415003	DD	04/08/24 14:40	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X415055	DD	04/10/24 09:55	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X416129	DD	04/26/24 13:38	H1
SM 2310 B	Acidity to pH 8.3	-51.3	mg/L as CaCO3	10.0			X415194	MWD	04/12/24 09:40	
SM 2320 B	Total Alkalinity	48.8	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 17:36	
SM 2320 B	Bicarbonate	48.8	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 17:36	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 17:36	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 17:36	
SM 2540 C	Total Diss. Solids	261	mg/L	10			X415009	TJL	04/09/24 14:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X415011	TJL	04/09/24 15:20	
SM 4500 H B	pH @19.0°C	6.8	pH Units				X414208	MWD	04/08/24 17:36	H5

SVL holds the following certifications:

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

Work



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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: X4D0124 Reported: 02-May-24 14:24

Client Sample ID: GVMW-8A
SVL Sample ID: X4D0124-02 (Ground Water)

Sampled: 04-Apr-24 09:30
Received: 05-Apr-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	65.2	mg/L	2.00	0.22	10	X414122	RS	04/05/24 16:25	D2
EPA 300.0	Fluoride	1.82	mg/L	0.100	0.017		X414122	RS	04/05/24 16:07	
EPA 300.0	Nitrate as N	1.22	mg/L	0.050	0.013		X414122	RS	04/05/24 16:07	
EPA 300.0	Nitrate+Nitrite as N	1.22	mg/L	0.100	0.044		X414122	RS	04/05/24 16:07	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X414122	RS	04/05/24 16:07	
EPA 300.0	Sulfate as SO4	59.6	mg/L	3.00	1.80	10	X414122	RS	04/05/24 16:25	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.15 meq/L	Anion Sum: 4.24 meq/L	C/A Balance: -0.99 %	Calculated TDS: 244	TDS/cTDS: 1.07

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

Kathryn Salter

Kathryn Salter
Project Manager


Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0124**

Reported: 02-May-24 14:24

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes

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

EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X416077	19-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X416077	19-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X416077	19-Apr-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X415016	09-Apr-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X415016	09-Apr-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X415016	09-Apr-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X415016	09-Apr-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X415016	09-Apr-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X415016	09-Apr-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X415016	09-Apr-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X415016	09-Apr-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X415016	09-Apr-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X415016	09-Apr-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X415016	09-Apr-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X415016	09-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X415016	09-Apr-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X415016	09-Apr-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X415016	09-Apr-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X415016	09-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X415016	09-Apr-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X415016	09-Apr-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X415016	09-Apr-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X415016	09-Apr-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X415016	09-Apr-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X415044	13-Apr-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X415044	13-Apr-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X415044	13-Apr-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X415044	13-Apr-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X415044	13-Apr-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X415207	15-Apr-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X415113	10-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X415003	08-Apr-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X415055	10-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X416129	26-Apr-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X415194	12-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X414208	08-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X414208	08-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X414208	08-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X414208	08-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X415009	09-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X415011	09-Apr-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X414122	05-Apr-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X414122	05-Apr-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X414122	05-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X414122	05-Apr-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X414122	05-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X414122	05-Apr-24	



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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0124**

Reported: 02-May-24 14:24

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	19.7	20.0	99	85 - 115	X416077	19-Apr-24	
EPA 200.7	Magnesium	mg/L	19.9	20.0	99.7	85 - 115	X416077	19-Apr-24	
EPA 200.7	Potassium	mg/L	20.3	20.0	102	85 - 115	X416077	19-Apr-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.919	1.00	91.9	85 - 115	X415016	09-Apr-24	
EPA 200.7	Barium	mg/L	0.996	1.00	99.6	85 - 115	X415016	09-Apr-24	
EPA 200.7	Beryllium	mg/L	0.996	1.00	99.6	85 - 115	X415016	09-Apr-24	
EPA 200.7	Boron	mg/L	0.967	1.00	96.7	85 - 115	X415016	09-Apr-24	
EPA 200.7	Cadmium	mg/L	0.987	1.00	98.7	85 - 115	X415016	09-Apr-24	
EPA 200.7	Calcium	mg/L	19.7	20.0	98.5	85 - 115	X415016	09-Apr-24	
EPA 200.7	Chromium	mg/L	0.985	1.00	98.5	85 - 115	X415016	09-Apr-24	
EPA 200.7	Cobalt	mg/L	0.979	1.00	97.9	85 - 115	X415016	09-Apr-24	
EPA 200.7	Copper	mg/L	0.980	1.00	98.0	85 - 115	X415016	09-Apr-24	
EPA 200.7	Iron	mg/L	9.83	10.0	98.3	85 - 115	X415016	09-Apr-24	
EPA 200.7	Lead	mg/L	0.976	1.00	97.6	85 - 115	X415016	09-Apr-24	
EPA 200.7	Lithium	mg/L	1.00	1.00	100	85 - 115	X415016	09-Apr-24	
EPA 200.7	Magnesium	mg/L	19.6	20.0	98.1	85 - 115	X415016	09-Apr-24	
EPA 200.7	Manganese	mg/L	0.999	1.00	99.9	85 - 115	X415016	09-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.985	1.00	98.5	85 - 115	X415016	09-Apr-24	
EPA 200.7	Nickel	mg/L	0.971	1.00	97.1	85 - 115	X415016	09-Apr-24	
EPA 200.7	Potassium	mg/L	20.1	20.0	100	85 - 115	X415016	09-Apr-24	
EPA 200.7	Silver	mg/L	0.0530	0.0500	106	85 - 115	X415016	09-Apr-24	
EPA 200.7	Sodium	mg/L	18.1	19.0	95.3	85 - 115	X415016	09-Apr-24	
EPA 200.7	Vanadium	mg/L	0.993	1.00	99.3	85 - 115	X415016	09-Apr-24	
EPA 200.7	Zinc	mg/L	0.980	1.00	98.0	85 - 115	X415016	09-Apr-24	
EPA 200.8	Antimony	mg/L	0.0255	0.0250	102	85 - 115	X415044	13-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0234	0.0250	93.5	85 - 115	X415044	13-Apr-24	
EPA 200.8	Selenium	mg/L	0.0223	0.0250	89.3	85 - 115	X415044	13-Apr-24	
EPA 200.8	Thallium	mg/L	0.0255	0.0250	102	85 - 115	X415044	13-Apr-24	
EPA 200.8	Uranium	mg/L	0.0260	0.0250	104	85 - 115	X415044	13-Apr-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00223	0.00200	111	85 - 115	X415207	15-Apr-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.102	0.100	102	90 - 110	X415113	10-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X415003	08-Apr-24	
EPA 350.1	Ammonia as N	mg/L	0.999	1.00	99.9	90 - 110	X415055	10-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.110	0.100	110	90 - 110	X416129	26-Apr-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1620	1640	99.0	95.4 - 104	X415194	12-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.2	9.93	103	96.4 - 105	X414208	08-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	96.4 - 105	X414208	08-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X415011	09-Apr-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.98	3.00	99.2	90 - 110	X414122	05-Apr-24	
EPA 300.0	Fluoride	mg/L	1.93	2.00	96.6	90 - 110	X414122	05-Apr-24	
EPA 300.0	Nitrate as N	mg/L	1.97	2.00	98.3	90 - 110	X414122	05-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.44	4.50	98.6	90 - 110	X414122	05-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.47	2.50	98.9	90 - 110	X414122	05-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	10.3	10.0	103	90 - 110	X414122	05-Apr-24	

SVL holds the following certifications:

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

Work

Page 17 of 21



Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0124**

Reported: 02-May-24 14:24

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	<10.0	<10.0	UDL	20	X415194 - X4D0086-01	12-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	157	157	0.1	20	X414208 - X4D0086-02	08-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	157	157	0.1	20	X414208 - X4D0086-02	08-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X414208 - X4D0086-02	08-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X414208 - X4D0086-02	08-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	251	261	3.9	10	X415009 - X4D0124-02	09-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	346	356	2.9	10	X415009 - X4D0107-02	09-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X415011 - X4D0107-02	09-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X415011 - X4D0124-02	09-Apr-24	
SM 4500 H B	pH @18.1°C	pH Units	7.6	7.6	0.3	20	X414208 - X4D0086-02	08-Apr-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	20.3	0.250	20.0	100	70 - 130	X416077 - X4D0086-01	19-Apr-24	
EPA 200.7	Calcium	mg/L	56.0	36.8	20.0	96	70 - 130	X416077 - X4D0124-04	19-Apr-24	
EPA 200.7	Magnesium	mg/L	20.9	<0.500	20.0	105	70 - 130	X416077 - X4D0086-01	19-Apr-24	
EPA 200.7	Magnesium	mg/L	37.0	16.7	20.0	101	70 - 130	X416077 - X4D0124-04	19-Apr-24	
EPA 200.7	Potassium	mg/L	110	88.3	20.0	110	70 - 130	X416077 - X4D0086-01	19-Apr-24	
EPA 200.7	Potassium	mg/L	21.3	0.91	20.0	102	70 - 130	X416077 - X4D0124-04	19-Apr-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.972	<0.080	1.00	97.2	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Aluminum	mg/L	0.976	<0.080	1.00	97.6	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Barium	mg/L	1.05	<0.0020	1.00	105	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Barium	mg/L	1.06	<0.0020	1.00	106	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Beryllium	mg/L	1.04	<0.00200	1.00	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Beryllium	mg/L	1.04	<0.00200	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	103	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Cadmium	mg/L	1.05	<0.0020	1.00	105	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Cadmium	mg/L	1.04	<0.0020	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Calcium	mg/L	20.9	0.155	20.0	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Calcium	mg/L	20.7	<0.100	20.0	103	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Chromium	mg/L	1.04	<0.0060	1.00	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Chromium	mg/L	1.04	<0.0060	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Cobalt	mg/L	1.03	<0.0060	1.00	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Cobalt	mg/L	1.02	<0.0060	1.00	102	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Copper	mg/L	1.04	<0.0100	1.00	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Copper	mg/L	1.04	<0.0100	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Iron	mg/L	10.4	<0.100	10.0	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Iron	mg/L	10.4	<0.100	10.0	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Lead	mg/L	1.03	<0.0075	1.00	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Lead	mg/L	1.02	<0.0075	1.00	102	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Lithium	mg/L	1.03	<0.040	1.00	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Lithium	mg/L	1.04	<0.040	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Magnesium	mg/L	20.7	<0.500	20.0	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Magnesium	mg/L	20.6	<0.500	20.0	103	70 - 130	X415016 - X4D0124-07	09-Apr-24	


Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0124**

Reported: 02-May-24 14:24

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	1.06	0.0115	1.00	105	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Manganese	mg/L	1.05	<0.0080	1.00	105	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Molybdenum	mg/L	1.02	<0.0080	1.00	102	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Molybdenum	mg/L	1.02	<0.0080	1.00	102	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Nickel	mg/L	1.03	<0.0100	1.00	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Nickel	mg/L	1.01	<0.0100	1.00	101	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Potassium	mg/L	38.2	16.9	20.0	107	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Potassium	mg/L	21.3	<0.50	20.0	107	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Silver	mg/L	0.0572	<0.0050	0.0500	114	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Silver	mg/L	0.0570	<0.0050	0.0500	114	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Sodium	mg/L	19.3	<0.50	19.0	100	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Sodium	mg/L	19.3	<0.50	19.0	100	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Vanadium	mg/L	1.05	<0.0050	1.00	105	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Vanadium	mg/L	1.04	<0.0050	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Zinc	mg/L	1.04	<0.0100	1.00	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Zinc	mg/L	1.02	<0.0100	1.00	102	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.8	Antimony	mg/L	0.0307	<0.00100	0.0250	123	70 - 130	X415044 - X4D0086-01	13-Apr-24	
EPA 200.8	Antimony	mg/L	0.0332	<0.00100	0.0250	133	70 - 130	X415044 - X4D0124-01	13-Apr-24	M1
EPA 200.8	Arsenic	mg/L	0.0298	<0.00100	0.0250	119	70 - 130	X415044 - X4D0086-01	13-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0328	<0.00100	0.0250	131	70 - 130	X415044 - X4D0124-01	13-Apr-24	M1
EPA 200.8	Selenium	mg/L	0.0307	<0.00100	0.0250	123	70 - 130	X415044 - X4D0086-01	13-Apr-24	
EPA 200.8	Selenium	mg/L	0.0344	<0.00100	0.0250	134	70 - 130	X415044 - X4D0124-01	13-Apr-24	M1
EPA 200.8	Thallium	mg/L	0.0287	<0.000200	0.0250	115	70 - 130	X415044 - X4D0086-01	13-Apr-24	
EPA 200.8	Thallium	mg/L	0.0311	<0.000200	0.0250	124	70 - 130	X415044 - X4D0124-01	13-Apr-24	
EPA 200.8	Uranium	mg/L	0.0292	<0.000100	0.0250	117	70 - 130	X415044 - X4D0086-01	13-Apr-24	
EPA 200.8	Uranium	mg/L	0.0353	0.00230	0.0250	132	70 - 130	X415044 - X4D0124-01	13-Apr-24	M1
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00234	<0.000200	0.00200	117	70 - 130	X415207 - X4D0080-01	15-Apr-24	
EPA 245.1	Mercury	mg/L	0.00218	<0.000200	0.00200	109	70 - 130	X415207 - X4D0124-03	15-Apr-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0940	<0.0050	0.100	94.0	79 - 121	X415113 - X4D0086-01	10-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.104	<0.0050	0.100	104	90 - 110	X415003 - X4D0086-03	08-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.0976	<0.0050	0.100	97.6	90 - 110	X415003 - X4D0086-01	08-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	102	90 - 110	X415055 - X4D0139-03	10-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X415055 - X4D0139-01	10-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.101	<0.0050	0.100	99.0	82 - 118	X416129 - X4D0086-01	26-Apr-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.08	0.20	3.00	95.8	90 - 110	X414122 - X4D0124-07	05-Apr-24	
EPA 300.0	Fluoride	mg/L	1.94	<0.100	2.00	95.3	90 - 110	X414122 - X4D0124-07	05-Apr-24	
EPA 300.0	Nitrate as N	mg/L	1.91	<0.050	2.00	95.7	90 - 110	X414122 - X4D0124-07	05-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.91	<0.100	4.00	97.9	90 - 110	X414122 - X4D0124-07	05-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.00	<0.050	2.00	100	90 - 110	X414122 - X4D0124-07	05-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	10.1	<0.30	10.0	99.4	90 - 110	X414122 - X4D0124-07	05-Apr-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: **X4D0124**

Reported: 02-May-24 14:24

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	20.3	20.3	20.0	0.1	20	100	X416077 - X4D0086-01	
EPA 200.7	Magnesium	mg/L	20.9	20.9	20.0	0.4	20	104	X416077 - X4D0086-01	
EPA 200.7	Potassium	mg/L	111	110	20.0	0.3	20	112	X416077 - X4D0086-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.967	0.972	1.00	0.4	20	96.7	X415016 - X4D0086-01	
EPA 200.7	Barium	mg/L	1.05	1.05	1.00	0.2	20	105	X415016 - X4D0086-01	
EPA 200.7	Beryllium	mg/L	1.04	1.04	1.00	0.0	20	104	X415016 - X4D0086-01	
EPA 200.7	Boron	mg/L	1.03	1.03	1.00	0.4	20	103	X415016 - X4D0086-01	
EPA 200.7	Cadmium	mg/L	1.05	1.05	1.00	0.1	20	105	X415016 - X4D0086-01	
EPA 200.7	Calcium	mg/L	20.7	20.9	20.0	1.0	20	103	X415016 - X4D0086-01	
EPA 200.7	Chromium	mg/L	1.04	1.04	1.00	0.2	20	104	X415016 - X4D0086-01	
EPA 200.7	Cobalt	mg/L	1.03	1.03	1.00	0.1	20	103	X415016 - X4D0086-01	
EPA 200.7	Copper	mg/L	1.05	1.04	1.00	0.7	20	105	X415016 - X4D0086-01	
EPA 200.7	Iron	mg/L	10.3	10.4	10.0	0.5	20	103	X415016 - X4D0086-01	
EPA 200.7	Lead	mg/L	1.02	1.03	1.00	0.5	20	102	X415016 - X4D0086-01	
EPA 200.7	Lithium	mg/L	1.04	1.03	1.00	0.7	20	104	X415016 - X4D0086-01	
EPA 200.7	Magnesium	mg/L	20.5	20.7	20.0	0.9	20	102	X415016 - X4D0086-01	
EPA 200.7	Manganese	mg/L	1.05	1.06	1.00	0.6	20	104	X415016 - X4D0086-01	
EPA 200.7	Molybdenum	mg/L	1.03	1.02	1.00	0.2	20	103	X415016 - X4D0086-01	
EPA 200.7	Nickel	mg/L	1.02	1.03	1.00	0.4	20	102	X415016 - X4D0086-01	
EPA 200.7	Potassium	mg/L	38.2	38.2	20.0	0.2	20	106	X415016 - X4D0086-01	
EPA 200.7	Silver	mg/L	0.0571	0.0572	0.0500	0.2	20	114	X415016 - X4D0086-01	
EPA 200.7	Sodium	mg/L	19.3	19.3	19.0	0.1	20	100	X415016 - X4D0086-01	
EPA 200.7	Vanadium	mg/L	1.04	1.05	1.00	0.6	20	104	X415016 - X4D0086-01	
EPA 200.7	Zinc	mg/L	1.04	1.04	1.00	0.3	20	104	X415016 - X4D0086-01	
EPA 200.8	Antimony	mg/L	0.0310	0.0307	0.0250	1.2	20	124	X415044 - X4D0086-01	
EPA 200.8	Arsenic	mg/L	0.0300	0.0298	0.0250	0.7	20	120	X415044 - X4D0086-01	
EPA 200.8	Selenium	mg/L	0.0314	0.0307	0.0250	2.3	20	125	X415044 - X4D0086-01	
EPA 200.8	Thallium	mg/L	0.0288	0.0287	0.0250	0.6	20	115	X415044 - X4D0086-01	
EPA 200.8	Uranium	mg/L	0.0293	0.0292	0.0250	0.2	20	117	X415044 - X4D0086-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00243	0.00234	0.00200	3.9	20	122	X415207 - X4D0080-01	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.103	0.0940	0.100	9.1	11	103	X415113 - X4D0086-01	
EPA 335.4	Cyanide (total)	mg/L	0.108	0.104	0.100	4.1	20	108	X415003 - X4D0086-03	
EPA 350.1	Ammonia as N	mg/L	1.02	1.02	1.00	0.9	20	102	X415055 - X4D0139-03	
OIA 1677	Cyanide (WAD)	mg/L	0.112	0.101	0.100	10.3	11	110	X416129 - X4D0086-01	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.11	3.08	3.00	1.1	20	97.0	X414122 - X4D0124-07	
EPA 300.0	Fluoride	mg/L	1.97	1.94	2.00	1.5	20	96.8	X414122 - X4D0124-07	
EPA 300.0	Nitrate as N	mg/L	1.93	1.91	2.00	1.0	20	96.6	X414122 - X4D0124-07	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.92	3.91	4.00	0.1	20	98.0	X414122 - X4D0124-07	
EPA 300.0	Nitrite as N	mg/L	1.99	2.00	2.00	0.7	20	99.4	X414122 - X4D0124-07	
EPA 300.0	Sulfate as SO4	mg/L	10.3	10.1	10.0	1.3	20	101	X414122 - X4D0124-07	



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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0124**

Reported: 02-May-24 14:24

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
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: **X4D0086**

Reported: 02-May-24 15:02

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

Sampled: 03-Apr-24 10:13

Received: 04-Apr-24

Sampled By: PB

SVL Sample ID: **X4D0086-02 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes

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

EPA 200.7	Calcium	29.5	mg/L	0.100	0.069		X416077	NMS	04/19/24 11:24	
EPA 200.7	Magnesium	6.78	mg/L	0.500	0.090		X416077	NMS	04/19/24 11:24	
EPA 200.7	Potassium	0.95	mg/L	0.50	0.18		X416077	NMS	04/19/24 11:24	
SM 2340 B	Hardness (as CaCO3)	102	mg/L	2.31	0.543		N/A		04/19/24 11:24	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X415016	NMS	04/09/24 11:56	
EPA 200.7	Barium	0.197	mg/L	0.0020	0.0019		X415016	NMS	04/09/24 11:56	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X415016	NMS	04/09/24 11:56	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X415016	NMS	04/09/24 11:56	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X415016	NMS	04/09/24 11:56	
EPA 200.7	Calcium	29.6	mg/L	0.100	0.069		X415016	NMS	04/09/24 11:56	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X415016	NMS	04/09/24 11:56	
EPA 200.7	Cobalt	0.0067	mg/L	0.0060	0.0046		X415016	NMS	04/09/24 11:56	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X415016	NMS	04/09/24 11:56	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X415016	NMS	04/09/24 11:56	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X415016	NMS	04/09/24 11:56	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X415016	NMS	04/09/24 11:56	
EPA 200.7	Magnesium	6.89	mg/L	0.500	0.090		X415016	NMS	04/09/24 11:56	
EPA 200.7	Manganese	0.0178	mg/L	0.0080	0.0034		X415016	NMS	04/09/24 11:56	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X415016	NMS	04/09/24 11:56	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X415016	NMS	04/09/24 11:56	
EPA 200.7	Potassium	1.01	mg/L	0.50	0.18		X415016	NMS	04/09/24 11:56	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X415016	NMS	04/09/24 11:56	
EPA 200.7	Sodium	31.0	mg/L	0.50	0.12		X415016	NMS	04/09/24 11:56	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X415016	NMS	04/09/24 11:56	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X415016	NMS	04/09/24 11:56	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X415044	SMU	04/13/24 15:16	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X415044	SMU	04/13/24 15:16	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X415044	SMU	04/13/24 15:16	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X415044	SMU	04/13/24 15:16	
EPA 200.8	Uranium	0.00353	mg/L	0.000100	0.000052		X415044	SMU	04/13/24 15:16	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X415207	MAC	04/15/24 16:22	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X415113	DD	04/10/24 13:02	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X415003	DD	04/08/24 14:24	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X415055	DD	04/10/24 09:43	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X416129	DD	04/26/24 13:24	H1
SM 2310 B	Acidity to pH 8.3	-162	mg/L as CaCO3	10.0			X415194	MWD	04/12/24 09:40	
SM 2320 B	Total Alkalinity	157	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 16:44	
SM 2320 B	Bicarbonate	157	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 16:44	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 16:44	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 16:44	
SM 2540 C	Total Diss. Solids	174	mg/L	10			X414198	TJL	04/08/24 14:45	
SM 2540 D	Total Susp. Solids	11.0	mg/L	5.0			X414200	TJL	04/08/24 15:55	
SM 4500 H B	pH @17.8°C	7.6	pH Units				X414208	MWD	04/08/24 16:44	H5

SVL holds the following certifications:

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

Work



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Newmont - Cripple Creek & Victor	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4D0086
Victor, CO 80860	Reported: 02-May-24 15:02

Client Sample ID: GVMW-26A
SVL Sample ID: X4D0086-02 (Ground Water)

Sampled: 03-Apr-24 10:13
Received: 04-Apr-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	1.50	mg/L	0.20	0.02		X414183	KAG	04/05/24 01:55	
EPA 300.0	Fluoride	1.85	mg/L	0.100	0.017		X414183	KAG	04/05/24 01:55	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X414183	KAG	04/05/24 01:55	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X414183	KAG	04/05/24 01:55	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X414183	KAG	04/05/24 01:55	
EPA 300.0	Sulfate as SO4	13.0	mg/L	0.30	0.18		X414183	KAG	04/05/24 01:55	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.42 meq/L	Anion Sum: 3.55 meq/L	C/A Balance: -1.88 %	Calculated TDS: 179	TDS/cTDS: 0.97

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

Kathryn Salter

Kathryn Salter
Project Manager



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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: **X4D0086**

Reported: 02-May-24 15:02

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

Sampled: 03-Apr-24 10:59

Received: 04-Apr-24

Sampled By: PB

SVL Sample ID: **X4D0086-03 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	10.2	mg/L	0.100	0.069		X416077	NMS	04/19/24 11:27	
EPA 200.7	Magnesium	2.09	mg/L	0.500	0.090		X416077	NMS	04/19/24 11:27	
EPA 200.7	Potassium	0.69	mg/L	0.50	0.18		X416077	NMS	04/19/24 11:27	
SM 2340 B	Hardness (as CaCO3)	38.9	mg/L	2.31	0.543		N/A		04/19/24 11:27	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X415016	NMS	04/09/24 11:59	
EPA 200.7	Barium	0.120	mg/L	0.0020	0.0019		X415016	NMS	04/09/24 11:59	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X415016	NMS	04/09/24 11:59	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X415016	NMS	04/09/24 11:59	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X415016	NMS	04/09/24 11:59	
EPA 200.7	Calcium	11.6	mg/L	0.100	0.069		X415016	NMS	04/09/24 11:59	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X415016	NMS	04/09/24 11:59	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X415016	NMS	04/09/24 11:59	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X415016	NMS	04/09/24 11:59	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X415016	NMS	04/09/24 11:59	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X415016	NMS	04/09/24 11:59	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X415016	NMS	04/09/24 11:59	
EPA 200.7	Magnesium	2.42	mg/L	0.500	0.090		X415016	NMS	04/09/24 11:59	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X415016	NMS	04/09/24 11:59	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X415016	NMS	04/09/24 11:59	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X415016	NMS	04/09/24 11:59	
EPA 200.7	Potassium	0.78	mg/L	0.50	0.18		X415016	NMS	04/09/24 11:59	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X415016	NMS	04/09/24 11:59	
EPA 200.7	Sodium	10.1	mg/L	0.50	0.12		X415016	NMS	04/09/24 11:59	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X415016	NMS	04/09/24 11:59	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X415016	NMS	04/09/24 11:59	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X415044	SMU	04/13/24 15:19	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X415044	SMU	04/13/24 15:19	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X415044	SMU	04/13/24 15:19	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X415044	SMU	04/13/24 15:19	
EPA 200.8	Uranium	0.000112	mg/L	0.000100	0.000052		X415044	SMU	04/13/24 15:19	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X415207	MAC	04/15/24 16:25	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X415113	DD	04/10/24 13:10	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X415003	DD	04/08/24 14:27	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X415055	DD	04/10/24 09:45	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X416129	DD	04/26/24 13:26	H1
SM 2310 B	Acidity to pH 8.3	-35.5	mg/L as CaCO3	10.0			X415194	MWD	04/12/24 09:40	
SM 2320 B	Total Alkalinity	36.8	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 16:50	
SM 2320 B	Bicarbonate	36.8	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 16:50	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 16:50	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 16:50	
SM 2540 C	Total Diss. Solids	102	mg/L	10			X414198	TJL	04/08/24 14:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X414200	TJL	04/08/24 15:55	
SM 4500 H B	pH @17.7°C	6.6	pH Units				X414208	MWD	04/08/24 16:50	H5

SVL holds the following certifications:

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

Work



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Newmont - Cripple Creek & Victor	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4D0086
Victor, CO 80860	Reported: 02-May-24 15:02

Client Sample ID: GVMW-26B
SVL Sample ID: X4D0086-03 (Ground Water)

Sampled: 03-Apr-24 10:59
Received: 04-Apr-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	1.87	mg/L	0.20	0.02		X414183	KAG	04/05/24 00:24	
EPA 300.0	Fluoride	0.216	mg/L	0.100	0.017		X414183	KAG	04/05/24 00:24	
EPA 300.0	Nitrate as N	0.578	mg/L	0.050	0.013		X414183	KAG	04/05/24 00:24	
EPA 300.0	Nitrate+Nitrite as N	0.578	mg/L	0.100	0.044		X414183	KAG	04/05/24 00:24	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X414183	KAG	04/05/24 00:24	
EPA 300.0	Sulfate as SO4	21.7	mg/L	0.30	0.18		X414183	KAG	04/05/24 00:24	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1.15 meq/L	Anion Sum: 1.29 meq/L	C/A Balance: -5.72 %	Calculated TDS: 72	TDS/cTDS: 1.41

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

Kathryn Salter

Kathryn Salter
Project Manager



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Kellogg, ID 83837-0929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0086**

Reported: 02-May-24 15:02

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

Sampled: 03-Apr-24 12:32

Received: 04-Apr-24

Sampled By: PB

SVL Sample ID: **X4D0086-05 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes

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

EPA 200.7	Calcium	25.9	mg/L	0.100	0.069		X416077	NMS	04/19/24 11:35	
EPA 200.7	Magnesium	10.5	mg/L	0.500	0.090		X416077	NMS	04/19/24 11:35	
EPA 200.7	Potassium	1.26	mg/L	0.50	0.18		X416077	NMS	04/19/24 11:35	
SM 2340 B	Hardness (as CaCO3)	120	mg/L	2.31	0.543		N/A		04/09/24 12:06	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X415016	NMS	04/09/24 12:06	
EPA 200.7	Barium	0.112	mg/L	0.0020	0.0019		X415016	NMS	04/09/24 12:06	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X415016	NMS	04/09/24 12:06	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X415016	NMS	04/09/24 12:06	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X415016	NMS	04/09/24 12:06	
EPA 200.7	Calcium	30.8	mg/L	0.100	0.069		X415016	NMS	04/09/24 12:06	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X415016	NMS	04/09/24 12:06	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X415016	NMS	04/09/24 12:06	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X415016	NMS	04/09/24 12:06	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X415016	NMS	04/09/24 12:06	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X415016	NMS	04/09/24 12:06	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X415016	NMS	04/09/24 12:06	
EPA 200.7	Magnesium	12.5	mg/L	0.500	0.090		X415016	NMS	04/09/24 12:06	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X415016	NMS	04/09/24 12:06	
EPA 200.7	Molybdenum	0.0083	mg/L	0.0080	0.0034		X415016	NMS	04/09/24 12:06	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X415016	NMS	04/09/24 12:06	
EPA 200.7	Potassium	1.51	mg/L	0.50	0.18		X415016	NMS	04/09/24 12:06	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X415016	NMS	04/09/24 12:06	
EPA 200.7	Sodium	37.6	mg/L	0.50	0.12		X415016	NMS	04/09/24 12:06	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X415016	NMS	04/09/24 12:06	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X415016	NMS	04/09/24 12:06	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X415044	SMU	04/13/24 15:24	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X415044	SMU	04/13/24 15:24	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X415044	SMU	04/13/24 15:24	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X415044	SMU	04/13/24 15:24	
EPA 200.8	Uranium	0.00360	mg/L	0.000100	0.000052		X415044	SMU	04/13/24 15:24	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X415207	MAC	04/15/24 16:29	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X415113	DD	04/10/24 13:14	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X415003	DD	04/08/24 14:32	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X415055	DD	04/10/24 09:49	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X418218	DD	05/02/24 10:02	H1
SM 2310 B	Acidity to pH 8.3	-162	mg/L as CaCO3	10.0			X415194	MWD	04/12/24 09:40	
SM 2320 B	Total Alkalinity	165	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 17:01	
SM 2320 B	Bicarbonate	165	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 17:01	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 17:01	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 17:01	
SM 2540 C	Total Diss. Solids	227	mg/L	10			X414198	TJL	04/08/24 14:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X414200	TJL	04/08/24 15:55	
SM 4500 H B	pH @17.8°C	7.6	pH Units				X414208	MWD	04/08/24 17:01	H5

SVL holds the following certifications:

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

Work



One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
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Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4D0086 Reported: 02-May-24 15:02

Client Sample ID: **GVMW-22B**
SVL Sample ID: **X4D0086-05 (Ground Water)**

Sampled: 03-Apr-24 12:32
Received: 04-Apr-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	4.42	mg/L	0.20	0.02		X414183	KAG	04/05/24 02:31	
EPA 300.0	Fluoride	2.09	mg/L	0.100	0.017		X414183	KAG	04/05/24 02:31	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X414183	KAG	04/05/24 02:31	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X414183	KAG	04/05/24 02:31	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X414183	KAG	04/05/24 02:31	
EPA 300.0	Sulfate as SO4	34.3	mg/L	0.30	0.18		X414183	KAG	04/05/24 02:31	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.84 meq/L	Anion Sum: 4.25 meq/L	C/A Balance: -5.07 %	Calculated TDS: 219	TDS/cTDS: 1.04

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

Kathryn Salter
Project Manager



One Government Gulch - PO Box 929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0086**

Reported: 02-May-24 15:02

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

Sampled: 03-Apr-24 13:21

Received: 04-Apr-24

Sampled By: PB

SVL Sample ID: **X4D0086-06 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	30.8	mg/L	0.100	0.069		X416077	NMS	04/19/24 11:48	
EPA 200.7	Magnesium	8.25	mg/L	0.500	0.090		X416077	NMS	04/19/24 11:48	
EPA 200.7	Potassium	1.30	mg/L	0.50	0.18		X416077	NMS	04/19/24 11:48	
SM 2340 B	Hardness (as CaCO3)	117	mg/L	2.31	0.543		N/A		04/09/24 12:17	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X415016	NMS	04/09/24 12:17	
EPA 200.7	Barium	0.0505	mg/L	0.0020	0.0019		X415016	NMS	04/09/24 12:17	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X415016	NMS	04/09/24 12:17	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X415016	NMS	04/09/24 12:17	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X415016	NMS	04/09/24 12:17	
EPA 200.7	Calcium	33.1	mg/L	0.100	0.069		X415016	NMS	04/09/24 12:17	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X415016	NMS	04/09/24 12:17	
EPA 200.7	Cobalt	0.0082	mg/L	0.0060	0.0046		X415016	NMS	04/09/24 12:17	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X415016	NMS	04/09/24 12:17	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X415016	NMS	04/09/24 12:17	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X415016	NMS	04/09/24 12:17	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X415016	NMS	04/09/24 12:17	
EPA 200.7	Magnesium	9.00	mg/L	0.500	0.090		X415016	NMS	04/09/24 12:17	
EPA 200.7	Manganese	0.0120	mg/L	0.0080	0.0034		X415016	NMS	04/09/24 12:17	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X415016	NMS	04/09/24 12:17	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X415016	NMS	04/09/24 12:17	
EPA 200.7	Potassium	1.43	mg/L	0.50	0.18		X415016	NMS	04/09/24 12:17	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X415016	NMS	04/09/24 12:17	
EPA 200.7	Sodium	17.2	mg/L	0.50	0.12		X415016	NMS	04/09/24 12:17	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X415016	NMS	04/09/24 12:17	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X415016	NMS	04/09/24 12:17	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X415044	SMU	04/13/24 15:26	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X415044	SMU	04/13/24 15:26	
EPA 200.8	Selenium	0.00127	mg/L	0.00100	0.00024		X415044	SMU	04/13/24 15:26	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X415044	SMU	04/13/24 15:26	
EPA 200.8	Uranium	0.000695	mg/L	0.000100	0.000052		X415044	SMU	04/13/24 15:26	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X415207	MAC	04/15/24 16:31	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X415113	DD	04/10/24 13:16	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X415003	DD	04/08/24 14:35	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X415055	DD	04/10/24 09:51	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X416129	DD	04/26/24 13:35	H1
SM 2310 B	Acidity to pH 8.3	-67.1	mg/L as CaCO3	10.0			X415194	MWD	04/12/24 09:40	
SM 2320 B	Total Alkalinity	68.3	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 17:07	
SM 2320 B	Bicarbonate	68.3	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 17:07	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 17:07	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 17:07	
SM 2540 C	Total Diss. Solids	217	mg/L	10			X414198	TJL	04/08/24 14:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X414200	TJL	04/08/24 15:55	
SM 4500 H B	pH @18.4°C	6.7	pH Units				X414208	MWD	04/08/24 17:07	H5

SVL holds the following certifications:

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

Work **Page 12 of 20**



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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: X4D0086 Reported: 02-May-24 15:02

Client Sample ID: **GVMW-22A**
SVL Sample ID: **X4D0086-06 (Ground Water)**

Sampled: 03-Apr-24 13:21
Received: 04-Apr-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	11.3	mg/L	0.20	0.02		X414183	KAG	04/05/24 03:07	
EPA 300.0	Fluoride	0.338	mg/L	0.100	0.017		X414183	KAG	04/05/24 03:07	
EPA 300.0	Nitrate as N	0.913	mg/L	0.050	0.013		X414183	KAG	04/05/24 03:07	
EPA 300.0	Nitrate+Nitrite as N	0.913	mg/L	0.100	0.044		X414183	KAG	04/05/24 03:07	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X414183	KAG	04/05/24 03:07	
EPA 300.0	Sulfate as SO4	68.0	mg/L	3.00	1.80	10	X414183	KAG	04/05/24 03:25	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.01 meq/L	Anion Sum: 3.18 meq/L	C/A Balance: -2.76 %	Calculated TDS: 184	TDS/cTDS: 1.18

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

Kathryn Salter
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0086**

Reported: 02-May-24 15:02

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X416077	19-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X416077	19-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X416077	19-Apr-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X415016	09-Apr-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X415016	09-Apr-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X415016	09-Apr-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X415016	09-Apr-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X415016	09-Apr-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X415016	09-Apr-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X415016	09-Apr-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X415016	09-Apr-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X415016	09-Apr-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X415016	09-Apr-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X415016	09-Apr-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X415016	09-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X415016	09-Apr-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X415016	09-Apr-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X415016	09-Apr-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X415016	09-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X415016	09-Apr-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X415016	09-Apr-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X415016	09-Apr-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X415016	09-Apr-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X415016	09-Apr-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X415044	13-Apr-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X415044	13-Apr-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X415044	13-Apr-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X415044	13-Apr-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X415044	13-Apr-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X415207	15-Apr-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X415113	10-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X415003	08-Apr-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X415055	10-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X416129	26-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X418218	02-May-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X415194	12-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X414208	08-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X414208	08-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X414208	08-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X414208	08-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X414198	08-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X414200	08-Apr-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X414183	04-Apr-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X414183	04-Apr-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X414183	04-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X414183	04-Apr-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X414183	04-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X414183	04-Apr-24	



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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0086**

Reported: 02-May-24 15:02

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes

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

EPA 200.7	Calcium	mg/L	19.7	20.0	99	85 - 115	X416077	19-Apr-24	
EPA 200.7	Magnesium	mg/L	19.9	20.0	99.7	85 - 115	X416077	19-Apr-24	
EPA 200.7	Potassium	mg/L	20.3	20.0	102	85 - 115	X416077	19-Apr-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.919	1.00	91.9	85 - 115	X415016	09-Apr-24	
EPA 200.7	Barium	mg/L	0.996	1.00	99.6	85 - 115	X415016	09-Apr-24	
EPA 200.7	Beryllium	mg/L	0.996	1.00	99.6	85 - 115	X415016	09-Apr-24	
EPA 200.7	Boron	mg/L	0.967	1.00	96.7	85 - 115	X415016	09-Apr-24	
EPA 200.7	Cadmium	mg/L	0.987	1.00	98.7	85 - 115	X415016	09-Apr-24	
EPA 200.7	Calcium	mg/L	19.7	20.0	98.5	85 - 115	X415016	09-Apr-24	
EPA 200.7	Chromium	mg/L	0.985	1.00	98.5	85 - 115	X415016	09-Apr-24	
EPA 200.7	Cobalt	mg/L	0.979	1.00	97.9	85 - 115	X415016	09-Apr-24	
EPA 200.7	Copper	mg/L	0.980	1.00	98.0	85 - 115	X415016	09-Apr-24	
EPA 200.7	Iron	mg/L	9.83	10.0	98.3	85 - 115	X415016	09-Apr-24	
EPA 200.7	Lead	mg/L	0.976	1.00	97.6	85 - 115	X415016	09-Apr-24	
EPA 200.7	Lithium	mg/L	1.00	1.00	100	85 - 115	X415016	09-Apr-24	
EPA 200.7	Magnesium	mg/L	19.6	20.0	98.1	85 - 115	X415016	09-Apr-24	
EPA 200.7	Manganese	mg/L	0.999	1.00	99.9	85 - 115	X415016	09-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.985	1.00	98.5	85 - 115	X415016	09-Apr-24	
EPA 200.7	Nickel	mg/L	0.971	1.00	97.1	85 - 115	X415016	09-Apr-24	
EPA 200.7	Potassium	mg/L	20.1	20.0	100	85 - 115	X415016	09-Apr-24	
EPA 200.7	Silver	mg/L	0.0530	0.0500	106	85 - 115	X415016	09-Apr-24	
EPA 200.7	Sodium	mg/L	18.1	19.0	95.3	85 - 115	X415016	09-Apr-24	
EPA 200.7	Vanadium	mg/L	0.993	1.00	99.3	85 - 115	X415016	09-Apr-24	
EPA 200.7	Zinc	mg/L	0.980	1.00	98.0	85 - 115	X415016	09-Apr-24	
EPA 200.8	Antimony	mg/L	0.0255	0.0250	102	85 - 115	X415044	13-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0234	0.0250	93.5	85 - 115	X415044	13-Apr-24	
EPA 200.8	Selenium	mg/L	0.0223	0.0250	89.3	85 - 115	X415044	13-Apr-24	
EPA 200.8	Thallium	mg/L	0.0255	0.0250	102	85 - 115	X415044	13-Apr-24	
EPA 200.8	Uranium	mg/L	0.0260	0.0250	104	85 - 115	X415044	13-Apr-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00223	0.00200	111	85 - 115	X415207	15-Apr-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.102	0.100	102	90 - 110	X415113	10-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X415003	08-Apr-24	
EPA 350.1	Ammonia as N	mg/L	0.999	1.00	99.9	90 - 110	X415055	10-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X418218	02-May-24	
OIA 1677	Cyanide (WAD)	mg/L	0.110	0.100	110	90 - 110	X416129	26-Apr-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1620	1640	99.0	95.4 - 104	X415194	12-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.2	9.93	103	96.4 - 105	X414208	08-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	96.4 - 105	X414208	08-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X414200	08-Apr-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.98	3.00	99.4	90 - 110	X414183	04-Apr-24	
EPA 300.0	Fluoride	mg/L	1.96	2.00	98.0	90 - 110	X414183	04-Apr-24	
EPA 300.0	Nitrate as N	mg/L	1.97	2.00	98.6	90 - 110	X414183	04-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.46	4.50	99.2	90 - 110	X414183	04-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.49	2.50	99.6	90 - 110	X414183	04-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X414183	04-Apr-24	

SVL holds the following certifications:

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

Work

Page 15 of 20



Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0086**

Reported: 02-May-24 15:02

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	<10.0	<10.0	UDL	20	X415194 - X4D0086-01	12-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	157	157	0.1	20	X414208 - X4D0086-02	08-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	157	157	0.1	20	X414208 - X4D0086-02	08-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X414208 - X4D0086-02	08-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X414208 - X4D0086-02	08-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	183	174	5.0	10	X414198 - X4D0086-02	08-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	276	291	5.3	10	X414198 - X4D0095-04	08-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	11.0	9.5	10	X414200 - X4D0086-02	08-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X414200 - X4D0095-04	08-Apr-24	
SM 4500 H B	pH @18.1°C	pH Units	7.6	7.6	0.3	20	X414208 - X4D0086-02	08-Apr-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	20.3	0.250	20.0	100	70 - 130	X416077 - X4D0086-01	19-Apr-24	
EPA 200.7	Calcium	mg/L	56.0	36.8	20.0	96	70 - 130	X416077 - X4D0124-04	19-Apr-24	
EPA 200.7	Magnesium	mg/L	20.9	<0.500	20.0	105	70 - 130	X416077 - X4D0086-01	19-Apr-24	
EPA 200.7	Magnesium	mg/L	37.0	16.7	20.0	101	70 - 130	X416077 - X4D0124-04	19-Apr-24	
EPA 200.7	Potassium	mg/L	110	88.3	20.0	110	70 - 130	X416077 - X4D0086-01	19-Apr-24	
EPA 200.7	Potassium	mg/L	21.3	0.91	20.0	102	70 - 130	X416077 - X4D0124-04	19-Apr-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.972	<0.080	1.00	97.2	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Aluminum	mg/L	0.976	<0.080	1.00	97.6	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Barium	mg/L	1.05	<0.0020	1.00	105	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Barium	mg/L	1.06	<0.0020	1.00	106	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Beryllium	mg/L	1.04	<0.00200	1.00	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Beryllium	mg/L	1.04	<0.00200	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	103	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Cadmium	mg/L	1.05	<0.0020	1.00	105	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Cadmium	mg/L	1.04	<0.0020	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Calcium	mg/L	20.9	0.155	20.0	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Calcium	mg/L	20.7	<0.100	20.0	103	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Chromium	mg/L	1.04	<0.0060	1.00	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Chromium	mg/L	1.04	<0.0060	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Cobalt	mg/L	1.03	<0.0060	1.00	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Cobalt	mg/L	1.02	<0.0060	1.00	102	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Copper	mg/L	1.04	<0.0100	1.00	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Copper	mg/L	1.04	<0.0100	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Iron	mg/L	10.4	<0.100	10.0	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Iron	mg/L	10.4	<0.100	10.0	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Lead	mg/L	1.03	<0.0075	1.00	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Lead	mg/L	1.02	<0.0075	1.00	102	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Lithium	mg/L	1.03	<0.040	1.00	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Lithium	mg/L	1.04	<0.040	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Magnesium	mg/L	20.7	<0.500	20.0	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Magnesium	mg/L	20.6	<0.500	20.0	103	70 - 130	X415016 - X4D0124-07	09-Apr-24	

SVL holds the following certifications:

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

Work


Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0086**

Reported: 02-May-24 15:02

Quality Control - MATRIX SPIKE Data (Continued)

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

Metals (Dissolved) (Continued)

EPA 200.7	Manganese	mg/L	1.06	0.0115	1.00	105	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Manganese	mg/L	1.05	<0.0080	1.00	105	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Molybdenum	mg/L	1.02	<0.0080	1.00	102	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Molybdenum	mg/L	1.02	<0.0080	1.00	102	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Nickel	mg/L	1.03	<0.0100	1.00	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Nickel	mg/L	1.01	<0.0100	1.00	101	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Potassium	mg/L	38.2	16.9	20.0	107	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Potassium	mg/L	21.3	<0.50	20.0	107	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Silver	mg/L	0.0572	<0.0050	0.0500	114	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Silver	mg/L	0.0570	<0.0050	0.0500	114	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Sodium	mg/L	19.3	<0.50	19.0	100	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Sodium	mg/L	19.3	<0.50	19.0	100	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Vanadium	mg/L	1.05	<0.0050	1.00	105	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Vanadium	mg/L	1.04	<0.0050	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Zinc	mg/L	1.04	<0.0100	1.00	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Zinc	mg/L	1.02	<0.0100	1.00	102	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.8	Antimony	mg/L	0.0307	<0.00100	0.0250	123	70 - 130	X415044 - X4D0086-01	13-Apr-24	
EPA 200.8	Antimony	mg/L	0.0332	<0.00100	0.0250	133	70 - 130	X415044 - X4D0124-01	13-Apr-24	M1
EPA 200.8	Arsenic	mg/L	0.0298	<0.00100	0.0250	119	70 - 130	X415044 - X4D0086-01	13-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0328	<0.00100	0.0250	131	70 - 130	X415044 - X4D0124-01	13-Apr-24	M1
EPA 200.8	Selenium	mg/L	0.0307	<0.00100	0.0250	123	70 - 130	X415044 - X4D0086-01	13-Apr-24	
EPA 200.8	Selenium	mg/L	0.0344	<0.00100	0.0250	134	70 - 130	X415044 - X4D0124-01	13-Apr-24	M1
EPA 200.8	Thallium	mg/L	0.0287	<0.000200	0.0250	115	70 - 130	X415044 - X4D0086-01	13-Apr-24	
EPA 200.8	Thallium	mg/L	0.0311	<0.000200	0.0250	124	70 - 130	X415044 - X4D0124-01	13-Apr-24	
EPA 200.8	Uranium	mg/L	0.0292	<0.000100	0.0250	117	70 - 130	X415044 - X4D0086-01	13-Apr-24	
EPA 200.8	Uranium	mg/L	0.0353	0.00230	0.0250	132	70 - 130	X415044 - X4D0124-01	13-Apr-24	M1

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00234	<0.000200	0.00200	117	70 - 130	X415207 - X4D0080-01	15-Apr-24	
EPA 245.1	Mercury	mg/L	0.00218	<0.000200	0.00200	109	70 - 130	X415207 - X4D0124-03	15-Apr-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0940	<0.0050	0.100	94.0	79 - 121	X415113 - X4D0086-01	10-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.104	<0.0050	0.100	104	90 - 110	X415003 - X4D0086-03	08-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.0976	<0.0050	0.100	97.6	90 - 110	X415003 - X4D0086-01	08-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	102	90 - 110	X415055 - X4D0139-03	10-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X415055 - X4D0139-01	10-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.107	<0.0050	0.100	107	82 - 118	X418218 - X4D0086-05	02-May-24	
OIA 1677	Cyanide (WAD)	mg/L	0.101	<0.0050	0.100	99.0	82 - 118	X416129 - X4D0086-01	26-Apr-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.08	<0.20	3.00	97.7	90 - 110	X414183 - X4D0085-03	04-Apr-24	
EPA 300.0	Chloride	mg/L	17.4	14.3	3.00	105	90 - 110	X414183 - X4D0086-01	05-Apr-24	D2
EPA 300.0	Fluoride	mg/L	1.95	<0.100	2.00	97.7	90 - 110	X414183 - X4D0085-03	04-Apr-24	
EPA 300.0	Fluoride	mg/L	1.99	<0.100	2.00	97.6	90 - 110	X414183 - X4D0086-01	04-Apr-24	
EPA 300.0	Nitrate as N	mg/L	1.95	<0.050	2.00	97.7	90 - 110	X414183 - X4D0085-03	04-Apr-24	
EPA 300.0	Nitrate as N	mg/L	1.95	<0.050	2.00	97.6	90 - 110	X414183 - X4D0086-01	04-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.98	<0.100	4.00	99.4	90 - 110	X414183 - X4D0085-03	04-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.97	<0.100	4.00	99.3	90 - 110	X414183 - X4D0086-01	04-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X414183 - X4D0085-03	04-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X414183 - X4D0086-01	04-Apr-24	

SVL holds the following certifications:

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

Work Page 17 of 20


Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0086**

Reported: 02-May-24 15:02

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO ₄	mg/L	10.3	<0.30	10.0	103	90 - 110	X414183 - X4D0085-03	04-Apr-24	
EPA 300.0	Sulfate as SO ₄	mg/L	10.8	0.58	10.0	102	90 - 110	X414183 - X4D0086-01	04-Apr-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	20.3	20.3	20.0	0.1	20	100	X416077 - X4D0086-01	
EPA 200.7	Magnesium	mg/L	20.9	20.9	20.0	0.4	20	104	X416077 - X4D0086-01	
EPA 200.7	Potassium	mg/L	111	110	20.0	0.3	20	112	X416077 - X4D0086-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.967	0.972	1.00	0.4	20	96.7	X415016 - X4D0086-01	
EPA 200.7	Barium	mg/L	1.05	1.05	1.00	0.2	20	105	X415016 - X4D0086-01	
EPA 200.7	Beryllium	mg/L	1.04	1.04	1.00	0.0	20	104	X415016 - X4D0086-01	
EPA 200.7	Boron	mg/L	1.03	1.03	1.00	0.4	20	103	X415016 - X4D0086-01	
EPA 200.7	Cadmium	mg/L	1.05	1.05	1.00	0.1	20	105	X415016 - X4D0086-01	
EPA 200.7	Calcium	mg/L	20.7	20.9	20.0	1.0	20	103	X415016 - X4D0086-01	
EPA 200.7	Chromium	mg/L	1.04	1.04	1.00	0.2	20	104	X415016 - X4D0086-01	
EPA 200.7	Cobalt	mg/L	1.03	1.03	1.00	0.1	20	103	X415016 - X4D0086-01	
EPA 200.7	Copper	mg/L	1.05	1.04	1.00	0.7	20	105	X415016 - X4D0086-01	
EPA 200.7	Iron	mg/L	10.3	10.4	10.0	0.5	20	103	X415016 - X4D0086-01	
EPA 200.7	Lead	mg/L	1.02	1.03	1.00	0.5	20	102	X415016 - X4D0086-01	
EPA 200.7	Lithium	mg/L	1.04	1.03	1.00	0.7	20	104	X415016 - X4D0086-01	
EPA 200.7	Magnesium	mg/L	20.5	20.7	20.0	0.9	20	102	X415016 - X4D0086-01	
EPA 200.7	Manganese	mg/L	1.05	1.06	1.00	0.6	20	104	X415016 - X4D0086-01	
EPA 200.7	Molybdenum	mg/L	1.03	1.02	1.00	0.2	20	103	X415016 - X4D0086-01	
EPA 200.7	Nickel	mg/L	1.02	1.03	1.00	0.4	20	102	X415016 - X4D0086-01	
EPA 200.7	Potassium	mg/L	38.2	38.2	20.0	0.2	20	106	X415016 - X4D0086-01	
EPA 200.7	Silver	mg/L	0.0571	0.0572	0.0500	0.2	20	114	X415016 - X4D0086-01	
EPA 200.7	Sodium	mg/L	19.3	19.3	19.0	0.1	20	100	X415016 - X4D0086-01	
EPA 200.7	Vanadium	mg/L	1.04	1.05	1.00	0.6	20	104	X415016 - X4D0086-01	
EPA 200.7	Zinc	mg/L	1.04	1.04	1.00	0.3	20	104	X415016 - X4D0086-01	
EPA 200.8	Antimony	mg/L	0.0310	0.0307	0.0250	1.2	20	124	X415044 - X4D0086-01	
EPA 200.8	Arsenic	mg/L	0.0300	0.0298	0.0250	0.7	20	120	X415044 - X4D0086-01	
EPA 200.8	Selenium	mg/L	0.0314	0.0307	0.0250	2.3	20	125	X415044 - X4D0086-01	
EPA 200.8	Thallium	mg/L	0.0288	0.0287	0.0250	0.6	20	115	X415044 - X4D0086-01	
EPA 200.8	Uranium	mg/L	0.0293	0.0292	0.0250	0.2	20	117	X415044 - X4D0086-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00243	0.00234	0.00200	3.9	20	122	X415207 - X4D0080-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.103	0.0940	0.100	9.1	11	103	X415113 - X4D0086-01	
EPA 335.4	Cyanide (total)	mg/L	0.108	0.104	0.100	4.1	20	108	X415003 - X4D0086-03	
EPA 350.1	Ammonia as N	mg/L	1.02	1.02	1.00	0.9	20	102	X415055 - X4D0139-03	
OIA 1677	Cyanide (WAD)	mg/L	0.112	0.101	0.100	10.3	11	110	X416129 - X4D0086-01	
OIA 1677	Cyanide (WAD)	mg/L	0.109	0.107	0.100	1.9	11	109	X418218 - X4D0086-05	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.14	3.08	3.00	1.9	20	99.7	X414183 - X4D0085-03	
EPA 300.0	Fluoride	mg/L	1.99	1.95	2.00	1.9	20	99.6	X414183 - X4D0085-03	
EPA 300.0	Nitrate as N	mg/L	1.99	1.95	2.00	1.9	20	99.6	X414183 - X4D0085-03	



One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
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Newmont - Cripple Creek & Victor				Project Name: Cripple Creek/Victor Water and Soil 2024			
Post Office Box 191				Work Order: X4D0086			
Victor, CO 80860				Reported: 02-May-24 15:02			

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	Nitrate+Nitrite as N	mg/L	4.06	3.98	4.00	2.0	20	101	X414183 - X4D0085-03	
EPA 300.0	Nitrite as N	mg/L	2.06	2.02	2.00	2.1	20	103	X414183 - X4D0085-03	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.3	10.0	2.3	20	105	X414183 - X4D0085-03	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0086**

Reported: 02-May-24 15:02

Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
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

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0206**

Reported: 25-Apr-24 13:09

Client Sample ID: **GVMW-25**

Sampled: 10-Apr-24 11:37

SVL Sample ID: **X4D0206-03 (Ground Water)**

Received: 11-Apr-24

Sampled By: PB

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	436	mg/L	2.00	1.38	20	X416235	NMS	04/23/24 12:20	D2
EPA 200.7	Magnesium	320	mg/L	0.500	0.090		X416235	NMS	04/23/24 11:27	
EPA 200.7	Potassium	7.57	mg/L	0.50	0.18		X416235	NMS	04/23/24 11:27	
SM 2340 B	Hardness (as CaCO3)	2440	mg/L	2.31	0.543		N/A		04/16/24 14:15	

Metals (Dissolved)

EPA 200.7	Aluminum	320	mg/L	0.080	0.054		X416017	NMS	04/16/24 14:15	
EPA 200.7	Barium	0.0127	mg/L	0.0020	0.0019		X416017	NMS	04/16/24 14:15	
EPA 200.7	Beryllium	0.243	mg/L	0.00200	0.00080		X416017	NMS	04/17/24 12:00	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X416017	NMS	04/16/24 14:15	
EPA 200.7	Cadmium	0.767	mg/L	0.0020	0.0016		X416017	NMS	04/16/24 14:15	
EPA 200.7	Calcium	451	mg/L	0.100	0.069		X416017	NMS	04/16/24 14:15	
EPA 200.7	Chromium	0.0217	mg/L	0.0060	0.0020		X416017	NMS	04/16/24 14:15	
EPA 200.7	Cobalt	0.816	mg/L	0.0060	0.0046		X416017	NMS	04/16/24 14:15	
EPA 200.7	Copper	1.19	mg/L	0.0100	0.0027		X416017	NMS	04/16/24 14:15	
EPA 200.7	Iron	0.303	mg/L	0.100	0.056		X416017	NMS	04/16/24 14:15	
EPA 200.7	Lead	0.0081	mg/L	0.0075	0.0049		X416017	NMS	04/16/24 14:15	
EPA 200.7	Lithium	0.196	mg/L	0.040	0.025		X416017	NMS	04/16/24 14:15	
EPA 200.7	Magnesium	297	mg/L	0.500	0.090		X416017	NMS	04/16/24 14:15	
EPA 200.7	Manganese	122	mg/L	0.0800	0.0340	10	X416017	NMS	04/17/24 15:46	D2
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X416017	NMS	04/16/24 14:15	
EPA 200.7	Nickel	1.40	mg/L	0.0100	0.0048		X416017	NMS	04/16/24 14:15	
EPA 200.7	Potassium	6.70	mg/L	0.50	0.18		X416017	NMS	04/16/24 14:15	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X416017	NMS	04/16/24 14:15	
EPA 200.7	Sodium	38.9	mg/L	0.50	0.12		X416017	NMS	04/16/24 14:15	
EPA 200.7	Vanadium	0.0119	mg/L	0.0050	0.0019		X416017	NMS	04/16/24 14:15	
EPA 200.7	Zinc	28.6	mg/L	0.0100	0.0054		X416017	NMS	04/17/24 12:00	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X415243	SMU	04/24/24 11:33	
EPA 200.8	Arsenic	0.00953	mg/L	0.00100	0.00021		X415243	SMU	04/24/24 11:33	
EPA 200.8	Selenium	0.0278	mg/L	0.00100	0.00024		X415243	SMU	04/24/24 11:33	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.000400	5	X415243	SMU	04/24/24 13:37	D1
EPA 200.8	Uranium	1.25	mg/L	0.000500	0.000260	5	X415243	SMU	04/24/24 13:37	D1

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X416045	MAC	04/22/24 16:42	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X416100	DD	04/17/24 11:27	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X416002	DD	04/16/24 12:56	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X416053	DD	04/17/24 13:20	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X416130	DD	04/19/24 13:34	
SM 2310 B	Acidity to pH 8.3	2430	mg/L as CaCO3	10.0			X416150	MWD	04/18/24 08:52	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X416068	MWD	04/16/24 14:24	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X416068	MWD	04/16/24 14:24	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X416068	MWD	04/16/24 14:24	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X416068	MWD	04/16/24 14:24	
SM 2540 C	Total Diss. Solids	7480	mg/L	40			X415170	TJL	04/15/24 14:10	D2
SM 2540 D	Total Susp. Solids	29.0	mg/L	5.0			X415171	TJL	04/15/24 16:00	
SM 4500 H B	pH @18.9°C	3.9	pH Units				X416068	MWD	04/16/24 14:24	H5



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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: X4D0206 Reported: 25-Apr-24 13:09

Client Sample ID: **GVMW-25**
SVL Sample ID: **X4D0206-03 (Ground Water)**

Sampled: 10-Apr-24 11:37
Received: 11-Apr-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	20.8	mg/L	1.00	0.11	5	X415149	RS	04/11/24 14:53	D2
EPA 300.0	Fluoride	8.81	mg/L	0.500	0.085	5	X415149	RS	04/11/24 14:53	D2
EPA 300.0	Nitrate as N	2.75	mg/L	0.250	0.065	5	X415149	RS	04/11/24 14:53	D1
EPA 300.0	Nitrate+Nitrite as N	2.75	mg/L	0.500	0.220	5	X415149	RS	04/11/24 14:53	D1
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X415149	RS	04/11/24 14:53	D1
EPA 300.0	Sulfate as SO4	4430	mg/L	30.0	18.0	100	X415149	RS	04/11/24 15:11	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 96.7 meq/L	Anion Sum: 93.5 meq/L	C/A Balance: 1.66 %	Calculated TDS: 5270	TDS/cTDS: 1.42

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

Kathryn Salter
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0206**

Reported: 25-Apr-24 13:09

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	X416235	23-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X416235	23-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X416235	23-Apr-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X416017	16-Apr-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X416017	16-Apr-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X416017	16-Apr-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X416017	16-Apr-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X416017	16-Apr-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X416017	16-Apr-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X416017	16-Apr-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X416017	16-Apr-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X416017	16-Apr-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X416017	16-Apr-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X416017	16-Apr-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X416017	16-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X416017	16-Apr-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X416017	16-Apr-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X416017	16-Apr-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X416017	16-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X416017	16-Apr-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X416017	16-Apr-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X416017	16-Apr-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X416017	16-Apr-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X416017	16-Apr-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X415243	24-Apr-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X415243	24-Apr-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X415243	24-Apr-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X415243	24-Apr-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X415243	24-Apr-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X416045	22-Apr-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X416100	17-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X416002	16-Apr-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X416053	17-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X416130	19-Apr-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X416150	18-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X416068	16-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X416068	16-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X416068	16-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X416068	16-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X415170	15-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X415171	15-Apr-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X415149	11-Apr-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X415149	11-Apr-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X415149	11-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X415149	11-Apr-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X415149	11-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X415149	11-Apr-24	



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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0206**

Reported: 25-Apr-24 13:09

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	19.5	20.0	98	85 - 115	X416235	23-Apr-24	
EPA 200.7	Magnesium	mg/L	19.8	20.0	98.9	85 - 115	X416235	23-Apr-24	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.7	85 - 115	X416235	23-Apr-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.950	1.00	95.0	85 - 115	X416017	16-Apr-24	
EPA 200.7	Barium	mg/L	0.980	1.00	98.0	85 - 115	X416017	16-Apr-24	
EPA 200.7	Beryllium	mg/L	0.986	1.00	98.6	85 - 115	X416017	16-Apr-24	
EPA 200.7	Boron	mg/L	0.973	1.00	97.3	85 - 115	X416017	16-Apr-24	
EPA 200.7	Cadmium	mg/L	0.978	1.00	97.8	85 - 115	X416017	16-Apr-24	
EPA 200.7	Calcium	mg/L	19.5	20.0	97.5	85 - 115	X416017	16-Apr-24	
EPA 200.7	Chromium	mg/L	0.980	1.00	98.0	85 - 115	X416017	16-Apr-24	
EPA 200.7	Cobalt	mg/L	0.961	1.00	96.1	85 - 115	X416017	16-Apr-24	
EPA 200.7	Copper	mg/L	0.984	1.00	98.4	85 - 115	X416017	16-Apr-24	
EPA 200.7	Iron	mg/L	9.93	10.0	99.3	85 - 115	X416017	16-Apr-24	
EPA 200.7	Lead	mg/L	0.975	1.00	97.5	85 - 115	X416017	16-Apr-24	
EPA 200.7	Lithium	mg/L	0.960	1.00	96.0	85 - 115	X416017	16-Apr-24	
EPA 200.7	Magnesium	mg/L	19.8	20.0	98.9	85 - 115	X416017	16-Apr-24	
EPA 200.7	Manganese	mg/L	0.987	1.00	98.7	85 - 115	X416017	16-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.996	1.00	99.6	85 - 115	X416017	16-Apr-24	
EPA 200.7	Nickel	mg/L	0.968	1.00	96.8	85 - 115	X416017	16-Apr-24	
EPA 200.7	Potassium	mg/L	19.6	20.0	98.0	85 - 115	X416017	16-Apr-24	
EPA 200.7	Silver	mg/L	0.0496	0.0500	99.2	85 - 115	X416017	16-Apr-24	
EPA 200.7	Sodium	mg/L	18.7	19.0	98.3	85 - 115	X416017	16-Apr-24	
EPA 200.7	Vanadium	mg/L	0.993	1.00	99.3	85 - 115	X416017	16-Apr-24	
EPA 200.7	Zinc	mg/L	0.973	1.00	97.3	85 - 115	X416017	16-Apr-24	
EPA 200.8	Antimony	mg/L	0.0257	0.0250	103	85 - 115	X415243	24-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0230	0.0250	92.1	85 - 115	X415243	24-Apr-24	
EPA 200.8	Selenium	mg/L	0.0215	0.0250	86.2	85 - 115	X415243	24-Apr-24	
EPA 200.8	Thallium	mg/L	0.0241	0.0250	96.3	85 - 115	X415243	24-Apr-24	
EPA 200.8	Uranium	mg/L	0.0249	0.0250	99.4	85 - 115	X415243	24-Apr-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00217	0.00200	108	85 - 115	X416045	22-Apr-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	0.100	98.0	90 - 110	X416100	17-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.0980	0.100	98.0	90 - 110	X416002	16-Apr-24	
EPA 350.1	Ammonia as N	mg/L	0.996	1.00	99.6	90 - 110	X416053	17-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0950	0.100	95.0	90 - 110	X416130	19-Apr-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1650	1640	101	95.4 - 104	X416150	18-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	96.4 - 105	X416068	16-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	96.4 - 105	X416068	16-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X415171	15-Apr-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.97	3.00	98.9	90 - 110	X415149	11-Apr-24	
EPA 300.0	Fluoride	mg/L	1.95	2.00	97.5	90 - 110	X415149	11-Apr-24	
EPA 300.0	Nitrate as N	mg/L	1.98	2.00	99.1	90 - 110	X415149	11-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.46	4.50	99.2	90 - 110	X415149	11-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.48	2.50	99.3	90 - 110	X415149	11-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	10.3	10.0	103	90 - 110	X415149	11-Apr-24	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0206**

Reported: 25-Apr-24 13:09

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	<10.0	<10.0	UDL	20	X416150 - X4D0206-01	18-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X416068 - X4D0206-02	16-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X416068 - X4D0206-02	16-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X416068 - X4D0206-02	16-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X416068 - X4D0206-02	16-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	294	299	1.7	10	X415170 - X4D0206-01	15-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	363	368	1.4	10	X415170 - X4D0201-01	15-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	24.0	25.0	4.1	10	X415171 - X4D0206-01	15-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X415171 - X4D0201-01	15-Apr-24	
SM 4500 H B	pH @19.2°C	pH Units	2.9	2.9	0.3	20	X416068 - X4D0206-02	16-Apr-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	75.7	56.3	20.0	97	70 - 130	X416235 - X4D0201-01	23-Apr-24	
EPA 200.7	Calcium	mg/L	29.9	11.1	20.0	94	70 - 130	X416235 - X4D0245-04	23-Apr-24	
EPA 200.7	Magnesium	mg/L	42.1	21.2	20.0	104	70 - 130	X416235 - X4D0201-01	23-Apr-24	
EPA 200.7	Magnesium	mg/L	19.9	0.696	20.0	96.2	70 - 130	X416235 - X4D0245-04	23-Apr-24	
EPA 200.7	Potassium	mg/L	30.7	11.2	20.0	97.7	70 - 130	X416235 - X4D0201-01	23-Apr-24	
EPA 200.7	Potassium	mg/L	19.4	<0.50	20.0	96.9	70 - 130	X416235 - X4D0245-04	23-Apr-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	10.6	9.54	1.00	104	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Aluminum	mg/L	0.947	<0.080	1.00	94.7	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Barium	mg/L	1.03	0.0447	1.00	99.0	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Barium	mg/L	0.957	<0.0020	1.00	95.7	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Beryllium	mg/L	0.946	0.00582	1.00	94.0	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Beryllium	mg/L	0.970	<0.00200	1.00	97.0	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Boron	mg/L	0.991	<0.0400	1.00	97.3	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Boron	mg/L	0.968	<0.0400	1.00	96.8	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Cadmium	mg/L	1.02	0.0783	1.00	94.5	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Cadmium	mg/L	0.975	<0.0020	1.00	97.5	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Calcium	mg/L	276	255	20.0	107	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Calcium	mg/L	19.2	<0.100	20.0	95.9	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Chromium	mg/L	0.955	<0.0060	1.00	95.5	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Chromium	mg/L	0.965	<0.0060	1.00	96.5	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Cobalt	mg/L	1.14	0.196	1.00	94.6	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Cobalt	mg/L	0.954	<0.0060	1.00	95.4	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Copper	mg/L	11.1	10.4	1.00	0.30R>S	70 - 130	X416017 - X4D0164-01	16-Apr-24	M3
EPA 200.7	Copper	mg/L	0.934	<0.0100	1.00	93.4	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Iron	mg/L	9.87	<0.100	10.0	98.7	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Iron	mg/L	9.83	<0.100	10.0	98.3	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Lead	mg/L	0.999	0.0510	1.00	94.8	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Lead	mg/L	0.975	<0.0075	1.00	97.5	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Lithium	mg/L	0.972	<0.040	1.00	94.5	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Lithium	mg/L	0.944	<0.040	1.00	94.4	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Magnesium	mg/L	136	114	20.0	109	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Magnesium	mg/L	19.7	<0.500	20.0	98.4	70 - 130	X416017 - X4D0212-05	16-Apr-24	

SVL holds the following certifications:

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

Work order Report Page 14 of 17

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0206**

Reported: 25-Apr-24 13:09

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	15.6	14.8	1.00	79.5	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Manganese	mg/L	0.965	<0.0080	1.00	96.5	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.979	<0.0080	1.00	97.9	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.973	<0.0080	1.00	97.3	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Nickel	mg/L	1.11	0.150	1.00	95.6	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Nickel	mg/L	0.962	<0.0100	1.00	96.2	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Potassium	mg/L	23.5	3.58	20.0	99.7	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Potassium	mg/L	19.3	<0.50	20.0	96.7	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Silver	mg/L	0.0484	<0.0050	0.0500	96.7	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Silver	mg/L	0.0481	<0.0050	0.0500	96.3	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Sodium	mg/L	40.5	21.8	19.0	98.4	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Sodium	mg/L	18.5	<0.50	19.0	96.3	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Vanadium	mg/L	0.988	<0.0050	1.00	98.8	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Vanadium	mg/L	0.978	<0.0050	1.00	97.8	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Zinc	mg/L	17.8	17.8	1.00	0.30R>S	70 - 130	X416017 - X4D0164-01	16-Apr-24	M3
EPA 200.7	Zinc	mg/L	0.983	<0.0100	1.00	98.3	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.8	Antimony	mg/L	0.0280	<0.00100	0.0250	112	70 - 130	X415243 - X4D0206-01	24-Apr-24	
EPA 200.8	Antimony	mg/L	0.0297	<0.00100	0.0250	119	70 - 130	X415243 - X4D0217-01	24-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0388	<0.00100	0.0250	154	70 - 130	X415243 - X4D0206-01	24-Apr-24	M1
EPA 200.8	Arsenic	mg/L	0.0363	0.00525	0.0250	124	70 - 130	X415243 - X4D0217-01	24-Apr-24	
EPA 200.8	Selenium	mg/L	0.0556	<0.00100	0.0250	222	70 - 130	X415243 - X4D0206-01	24-Apr-24	M1
EPA 200.8	Selenium	mg/L	0.0290	<0.00100	0.0250	112	70 - 130	X415243 - X4D0217-01	24-Apr-24	
EPA 200.8	Thallium	mg/L	0.0304	<0.000200	0.0250	121	70 - 130	X415243 - X4D0217-01	24-Apr-24	
EPA 200.8	Thallium	mg/L	0.0263	<0.00100	0.0250	105	70 - 130	X415243 - X4D0206-01	24-Apr-24	D1
EPA 200.8	Uranium	mg/L	0.0353	0.00343	0.0250	128	70 - 130	X415243 - X4D0217-01	24-Apr-24	
EPA 200.8	Uranium	mg/L	1.37	<0.000500	0.0250	5476	70 - 130	X415243 - X4D0206-01	24-Apr-24	D1,M4
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00209	<0.000200	0.00200	104	70 - 130	X416045 - X4D0206-01	22-Apr-24	
EPA 245.1	Mercury	mg/L	0.0423	0.0386	0.00200	0.30R>S	70 - 130	X416045 - X4D0254-01	22-Apr-24	D2,M4
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.107	<0.0050	0.100	107	79 - 121	X416100 - X4D0253-06	17-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.0911	<0.0050	0.100	91.1	90 - 110	X416002 - X4D0158-01	16-Apr-24	R2B
EPA 350.1	Ammonia as N	mg/L	1.08	<0.030	1.00	108	90 - 110	X416053 - X4D0206-02	17-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.04	<0.030	1.00	104	90 - 110	X416053 - X4D0206-04	17-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.115	<0.0050	0.100	114	82 - 118	X416130 - X4D0206-01	19-Apr-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	18.7	15.9	3.00	90.3	90 - 110	X415149 - X4D0199-01	11-Apr-24	D2
EPA 300.0	Chloride	mg/L	3.17	0.22	3.00	98.4	90 - 110	X415149 - X4D0206-05	11-Apr-24	
EPA 300.0	Fluoride	mg/L	1.97	<0.100	2.00	97.1	90 - 110	X415149 - X4D0199-01	11-Apr-24	
EPA 300.0	Fluoride	mg/L	1.99	<0.100	2.00	97.6	90 - 110	X415149 - X4D0206-05	11-Apr-24	
EPA 300.0	Nitrate as N	mg/L	2.13	0.169	2.00	98.0	90 - 110	X415149 - X4D0199-01	11-Apr-24	
EPA 300.0	Nitrate as N	mg/L	1.96	<0.050	2.00	98.1	90 - 110	X415149 - X4D0206-05	11-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.14	0.173	4.00	99.1	90 - 110	X415149 - X4D0199-01	11-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.99	<0.100	4.00	99.6	90 - 110	X415149 - X4D0206-05	11-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.01	<0.050	2.00	100	90 - 110	X415149 - X4D0199-01	11-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X415149 - X4D0206-05	11-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	25.0	15.0	10.0	99.9	90 - 110	X415149 - X4D0199-01	11-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	10.5	0.30	10.0	102	90 - 110	X415149 - X4D0206-05	11-Apr-24	

SVL holds the following certifications:

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

Work order Report Page 15 of 17

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0206**

Reported: 25-Apr-24 13:09

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	74.6	75.7	20.0	1.0	20	92	X416235 - X4D0201-01	
EPA 200.7	Magnesium	mg/L	41.3	42.1	20.0	1.9	20	100	X416235 - X4D0201-01	
EPA 200.7	Potassium	mg/L	30.3	30.7	20.0	1.4	20	95.5	X416235 - X4D0201-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	10.7	10.6	1.00	1.1	20	116	X416017 - X4D0164-01	
EPA 200.7	Barium	mg/L	1.02	1.03	1.00	1.4	20	97.5	X416017 - X4D0164-01	
EPA 200.7	Beryllium	mg/L	0.952	0.946	1.00	0.6	20	94.6	X416017 - X4D0164-01	
EPA 200.7	Boron	mg/L	1.01	0.991	1.00	1.9	20	99.2	X416017 - X4D0164-01	
EPA 200.7	Cadmium	mg/L	1.02	1.02	1.00	0.3	20	94.2	X416017 - X4D0164-01	
EPA 200.7	Calcium	mg/L	275	276	20.0	0.3	20	103	X416017 - X4D0164-01	
EPA 200.7	Chromium	mg/L	0.950	0.955	1.00	0.6	20	95.0	X416017 - X4D0164-01	
EPA 200.7	Cobalt	mg/L	1.14	1.14	1.00	0.3	20	94.3	X416017 - X4D0164-01	
EPA 200.7	Copper	mg/L	11.2	11.1	1.00	0.7	20	73.6	X416017 - X4D0164-01	
EPA 200.7	Iron	mg/L	9.86	9.87	10.0	0.1	20	98.6	X416017 - X4D0164-01	
EPA 200.7	Lead	mg/L	1.00	0.999	1.00	0.1	20	94.9	X416017 - X4D0164-01	
EPA 200.7	Lithium	mg/L	0.997	0.972	1.00	2.5	20	97.0	X416017 - X4D0164-01	
EPA 200.7	Magnesium	mg/L	133	136	20.0	1.8	20	97.3	X416017 - X4D0164-01	
EPA 200.7	Manganese	mg/L	15.8	15.6	1.00	0.9	20	94.0	X416017 - X4D0164-01	
EPA 200.7	Molybdenum	mg/L	0.976	0.979	1.00	0.3	20	97.6	X416017 - X4D0164-01	
EPA 200.7	Nickel	mg/L	1.11	1.11	1.00	0.0	20	95.5	X416017 - X4D0164-01	
EPA 200.7	Potassium	mg/L	23.5	23.5	20.0	0.1	20	99.7	X416017 - X4D0164-01	
EPA 200.7	Silver	mg/L	0.0500	0.0484	0.0500	3.4	20	100	X416017 - X4D0164-01	
EPA 200.7	Sodium	mg/L	40.4	40.5	19.0	0.1	20	98.1	X416017 - X4D0164-01	
EPA 200.7	Vanadium	mg/L	0.983	0.988	1.00	0.5	20	98.3	X416017 - X4D0164-01	
EPA 200.7	Zinc	mg/L	17.9	17.8	1.00	1.0	20	0.30R>S	X416017 - X4D0164-01	M3
EPA 200.8	Antimony	mg/L	0.0285	0.0280	0.0250	1.7	20	114	X415243 - X4D0206-01	
EPA 200.8	Arsenic	mg/L	0.0386	0.0388	0.0250	0.5	20	153	X415243 - X4D0206-01	M1
EPA 200.8	Selenium	mg/L	0.0560	0.0556	0.0250	0.7	20	224	X415243 - X4D0206-01	M1

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00211	0.00209	0.00200	1.0	20	105	X416045 - X4D0206-01	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.109	0.107	0.100	1.9	11	109	X416100 - X4D0253-06	
EPA 335.4	Cyanide (total)	mg/L	0.0477	0.0911	0.100	62.5	20	47.7	X416002 - X4D0158-01	M2,R2B
EPA 350.1	Ammonia as N	mg/L	1.14	1.08	1.00	5.2	20	114	X416053 - X4D0206-02	M1
OIA 1677	Cyanide (WAD)	mg/L	0.120	0.115	0.100	4.3	11	119	X416130 - X4D0206-01	M1

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	18.7	18.7	3.00	0.5	20	93.4	X415149 - X4D0199-01	D2
EPA 300.0	Fluoride	mg/L	2.04	1.97	2.00	3.2	20	100	X415149 - X4D0199-01	
EPA 300.0	Nitrate as N	mg/L	2.19	2.13	2.00	2.8	20	101	X415149 - X4D0199-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.27	4.14	4.00	3.1	20	102	X415149 - X4D0199-01	
EPA 300.0	Nitrite as N	mg/L	2.08	2.01	2.00	3.4	20	104	X415149 - X4D0199-01	
EPA 300.0	Sulfate as SO4	mg/L	25.2	25.0	10.0	1.1	20	103	X415149 - X4D0199-01	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0206**

Reported: 25-Apr-24 13:09

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
E11	Sample exceeds method-specified limit for solids content.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q12	Sample was received and analyzed with pH <12.
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

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0125**

Reported: 31-May-24 15:41

Client Sample ID: **GVMW-25**SVL Sample ID: **X4E0125-01 (Ground Water)**

Sampled: 07-May-24 09:14

Received: 08-May-24

Sampled By: PB

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	467	mg/L	1.00	0.690	10	X420003	NMS	05/14/24 18:50	D2,M4
EPA 200.7	Magnesium	193	mg/L	0.500	0.090		X420003	NMS	05/14/24 16:58	
EPA 200.7	Potassium	5.47	mg/L	0.50	0.18		X420003	NMS	05/14/24 16:58	
SM 2340 B	Hardness (as CaCO3)	1960	mg/L	4.56	2.09		N/A		05/21/24 09:41	

Metals (Dissolved)

EPA 200.7	Aluminum	214	mg/L	0.080	0.054		X419175	NMS	05/21/24 09:41	
EPA 200.7	Barium	0.0099	mg/L	0.0020	0.0019		X419175	NMS	05/21/24 09:41	
EPA 200.7	Beryllium	0.225	mg/L	0.00200	0.00080		X419175	NMS	05/21/24 09:41	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X419175	NMS	05/21/24 09:41	
EPA 200.7	Cadmium	0.523	mg/L	0.0020	0.0016		X419175	NMS	05/21/24 09:41	
EPA 200.7	Calcium	475	mg/L	0.100	0.069		X419175	NMS	05/21/24 09:41	
EPA 200.7	Chromium	0.0163	mg/L	0.0060	0.0020		X419175	NMS	05/21/24 09:41	
EPA 200.7	Cobalt	0.501	mg/L	0.0060	0.0046		X419175	NMS	05/21/24 09:41	
EPA 200.7	Copper	0.722	mg/L	0.0100	0.0027		X419175	NMS	05/21/24 09:41	
EPA 200.7	Iron	0.375	mg/L	0.100	0.056		X419175	NMS	05/21/24 09:41	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X419175	NMS	05/21/24 09:41	
EPA 200.7	Lithium	0.094	mg/L	0.040	0.025		X419175	NMS	05/21/24 09:41	
EPA 200.7	Magnesium	180	mg/L	0.500	0.090		X419175	NMS	05/21/24 09:41	
EPA 200.7	Manganese	74.5	mg/L	0.0080	0.0034		X419175	NMS	05/21/24 09:41	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X419175	NMS	05/21/24 09:41	
EPA 200.7	Nickel	0.897	mg/L	0.0100	0.0048		X419175	NMS	05/21/24 09:41	
EPA 200.7	Potassium	5.21	mg/L	0.50	0.18		X419175	NMS	05/21/24 09:41	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X419175	NMS	05/21/24 09:41	
EPA 200.7	Sodium	36.3	mg/L	0.50	0.12		X419175	NMS	05/21/24 09:41	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X419175	NMS	05/21/24 09:41	
EPA 200.7	Zinc	19.1	mg/L	0.0100	0.0054		X419175	NMS	05/21/24 09:41	
EPA 200.8	Antimony	< 0.100	mg/L	0.100	0.0720	100	X419226	SMU	05/20/24 18:37	D1,M4
EPA 200.8	Arsenic	< 0.100	mg/L	0.100	0.0210	100	X419226	SMU	05/20/24 18:37	D1,M4
EPA 200.8	Selenium	< 0.100	mg/L	0.100	0.0240	100	X419226	SMU	05/20/24 18:37	D1,M4
EPA 200.8	Thallium	< 0.0200	mg/L	0.0200	0.00800	100	X419226	SMU	05/20/24 18:37	D1
EPA 200.8	Uranium	0.663	mg/L	0.0100	0.00520	100	X419226	SMU	05/20/24 18:37	D1,M4

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X420050	MAC	05/15/24 15:02	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X421014	DD	05/23/24 11:09	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X420008	JPM	05/14/24 10:51	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X419185	JPM	05/10/24 10:04	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X420066	DD	05/15/24 11:22	
SM 2310 B	Acidity to pH 8.3	1360	mg/L as CaCO3	10.0			X419182	MWD	05/10/24 07:42	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 13:36	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 13:36	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 13:36	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 13:36	
SM 2540 C	Total Diss. Solids	4140	mg/L	40			X419120	TJL	05/09/24 13:50	D2
SM 2540 D	Total Susp. Solids	30.0	mg/L	5.0			X419121	TJL	05/09/24 15:00	
SM 4500 H B	pH @20.7°C	3.8	pH Units				X419144	MWD	05/09/24 13:36	H5



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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: X4E0125 Reported: 31-May-24 15:41

Client Sample ID: **GVMW-25**
SVL Sample ID: **X4E0125-01 (Ground Water)**

Sampled: 07-May-24 09:14
Received: 08-May-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	30.6	mg/L	1.00	0.11	5	X419118	RS	05/08/24 15:11	D2
EPA 300.0	Fluoride	9.17	mg/L	0.500	0.085	5	X419118	RS	05/08/24 15:11	D2
EPA 300.0	Nitrate as N	2.93	mg/L	0.250	0.065	5	X419118	RS	05/08/24 15:11	D1
EPA 300.0	Nitrate+Nitrite as N	2.93	mg/L	0.500	0.220	5	X419118	RS	05/08/24 15:11	D1
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X419118	RS	05/08/24 15:11	D1
EPA 300.0	Sulfate as SO4	3340	mg/L	30.0	18.0	100	X419118	RS	05/08/24 15:29	D2

Cation/Anion Balance and TDS Ratios										
Cation Sum: 67.0 meq/L		Anion Sum: 71.1 meq/L		C/A Balance: -2.96 %		Calculated TDS: 4092		TDS/cTDS: 1.01		

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



Tawnya M. Hall
Project Manager Assistant

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0125**

Reported: 31-May-24 15:41

Client Sample ID: **GVMW-26 A**SVL Sample ID: **X4E0125-03 (Ground Water)**

Sampled: 07-May-24 10:32

Received: 08-May-24

Sampled By: PB

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	28.9	mg/L	0.100	0.069		X420003	NMS	05/14/24 17:20	
EPA 200.7	Magnesium	6.77	mg/L	0.500	0.090		X420003	NMS	05/14/24 17:20	
EPA 200.7	Potassium	0.93	mg/L	0.50	0.18		X420003	NMS	05/14/24 17:20	
SM 2340 B	Hardness (as CaCO3)	99.7	mg/L	2.31	0.543		N/A		05/21/24 10:02	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X419175	NMS	05/21/24 10:02	
EPA 200.7	Barium	0.194	mg/L	0.0020	0.0019		X419175	NMS	05/21/24 10:02	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X419175	NMS	05/21/24 10:02	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X419175	NMS	05/21/24 10:02	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X419175	NMS	05/21/24 10:02	
EPA 200.7	Calcium	28.8	mg/L	0.100	0.069		X419175	NMS	05/21/24 10:02	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X419175	NMS	05/21/24 10:02	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X419175	NMS	05/21/24 10:02	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X419175	NMS	05/21/24 10:02	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X419175	NMS	05/21/24 10:02	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X419175	NMS	05/21/24 10:02	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X419175	NMS	05/21/24 10:02	
EPA 200.7	Magnesium	6.54	mg/L	0.500	0.090		X419175	NMS	05/21/24 10:02	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X419175	NMS	05/21/24 10:02	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X419175	NMS	05/21/24 10:02	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X419175	NMS	05/21/24 10:02	
EPA 200.7	Potassium	0.81	mg/L	0.50	0.18		X419175	NMS	05/21/24 10:02	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X419175	NMS	05/21/24 10:02	
EPA 200.7	Sodium	29.5	mg/L	0.50	0.12		X419175	NMS	05/21/24 10:02	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X419175	NMS	05/21/24 10:02	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X419175	NMS	05/21/24 10:02	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X419226	SMU	05/20/24 17:05	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X419226	SMU	05/20/24 17:05	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X419226	SMU	05/20/24 17:05	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X419226	SMU	05/20/24 17:05	
EPA 200.8	Uranium	0.00368	mg/L	0.000100	0.000052		X419226	SMU	05/20/24 17:05	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X420050	MAC	05/15/24 15:06	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X421015	DD	05/28/24 12:55	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X420008	JPM	05/14/24 10:55	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X419185	JPM	05/10/24 10:08	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X420066	DD	05/15/24 11:25	
SM 2310 B	Acidity to pH 8.3	-148	mg/L as CaCO3	10.0			X419182	MWD	05/10/24 07:42	
SM 2320 B	Total Alkalinity	153	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 13:56	
SM 2320 B	Bicarbonate	153	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 13:56	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 13:56	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 13:56	
SM 2540 C	Total Diss. Solids	155	mg/L	10			X422104	TJL	05/31/24 14:20	H1
SM 2540 D	Total Susp. Solids	9.0	mg/L	5.0			X419121	TJL	05/09/24 15:00	
SM 4500 H B	pH @20.8°C	8.0	pH Units				X419144	MWD	05/09/24 13:56	H5



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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: X4E0125 Reported: 31-May-24 15:41

Client Sample ID: **GVMW-26 A**
SVL Sample ID: **X4E0125-03 (Ground Water)**

Sampled: 07-May-24 10:32
Received: 08-May-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	1.27	mg/L	0.20	0.02		X419118	RS	05/08/24 16:24	
EPA 300.0	Fluoride	1.78	mg/L	0.100	0.017		X419118	RS	05/08/24 16:24	
EPA 300.0	Nitrate as N	0.069	mg/L	0.050	0.013		X419118	RS	05/08/24 16:24	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X419118	RS	05/08/24 16:24	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X419118	RS	05/08/24 16:24	
EPA 300.0	Sulfate as SO4	11.3	mg/L	0.30	0.18		X419118	RS	05/08/24 16:24	

Cation/Anion Balance and TDS Ratios										
Cation Sum: 3.30 meq/L		Anion Sum: 3.43 meq/L		C/A Balance: -1.93 %		Calculated TDS: 172		TDS/cTDS: 0.90		

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

Tawnya M. Hall
Project Manager Assistant



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0125**

Reported: 31-May-24 15:41

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

Sampled: 07-May-24 11:28

Received: 08-May-24

Sampled By: PB

SVL Sample ID: **X4E0125-04 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes

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

EPA 200.7	Calcium	10.9	mg/L	0.100	0.069		X420003	NMS	05/14/24 17:24	
EPA 200.7	Magnesium	2.39	mg/L	0.500	0.090		X420003	NMS	05/14/24 17:24	
EPA 200.7	Potassium	0.87	mg/L	0.50	0.18		X420003	NMS	05/14/24 17:24	
SM 2340 B	Hardness (as CaCO3)	36.5	mg/L	2.31	0.543		N/A		05/14/24 17:24	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X419175	NMS	05/21/24 10:06	
EPA 200.7	Barium	0.108	mg/L	0.0020	0.0019		X419175	NMS	05/21/24 10:06	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X419175	NMS	05/21/24 10:06	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X419175	NMS	05/21/24 10:06	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X419175	NMS	05/21/24 10:06	
EPA 200.7	Calcium	10.8	mg/L	0.100	0.069		X419175	NMS	05/21/24 10:06	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X419175	NMS	05/21/24 10:06	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X419175	NMS	05/21/24 10:06	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X419175	NMS	05/21/24 10:06	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X419175	NMS	05/21/24 10:06	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X419175	NMS	05/21/24 10:06	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X419175	NMS	05/21/24 10:06	
EPA 200.7	Magnesium	2.30	mg/L	0.500	0.090		X419175	NMS	05/21/24 10:06	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X419175	NMS	05/21/24 10:06	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X419175	NMS	05/21/24 10:06	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X419175	NMS	05/21/24 10:06	
EPA 200.7	Potassium	0.78	mg/L	0.50	0.18		X419175	NMS	05/21/24 10:06	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X419175	NMS	05/21/24 10:06	
EPA 200.7	Sodium	9.81	mg/L	0.50	0.12		X419175	NMS	05/21/24 10:06	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X419175	NMS	05/21/24 10:06	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X419175	NMS	05/21/24 10:06	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X419226	SMU	05/20/24 17:07	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X419226	SMU	05/20/24 17:07	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X419226	SMU	05/20/24 17:07	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X419226	SMU	05/20/24 17:07	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X419226	SMU	05/20/24 17:07	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X420050	MAC	05/15/24 15:12	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X421015	DD	05/28/24 12:57	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X420008	JPM	05/14/24 10:58	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X419185	JPM	05/10/24 10:10	M2,R2B
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X420066	DD	05/15/24 11:27	
SM 2310 B	Acidity to pH 8.3	-27.4	mg/L as CaCO3	10.0			X419182	MWD	05/10/24 07:42	
SM 2320 B	Total Alkalinity	35.0	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 14:01	
SM 2320 B	Bicarbonate	35.0	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 14:01	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 14:01	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 14:01	
SM 2540 C	Total Diss. Solids	87	mg/L	10			X419120	TJL	05/09/24 13:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X419121	TJL	05/09/24 15:00	
SM 4500 H B	pH @20.9°C	6.7	pH Units				X419144	MWD	05/09/24 14:01	H5

SVL holds the following certifications:

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

Work order Report Page 8 of 22



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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: X4E0125 Reported: 31-May-24 15:41

Client Sample ID: **GVMW-26 B**
SVL Sample ID: **X4E0125-04 (Ground Water)**

Sampled: 07-May-24 11:28
Received: 08-May-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	1.83	mg/L	0.20	0.02		X419118	RS	05/08/24 12:47	
EPA 300.0	Fluoride	0.217	mg/L	0.100	0.017		X419118	RS	05/08/24 12:47	
EPA 300.0	Nitrate as N	0.692	mg/L	0.050	0.013		X419118	RS	05/08/24 12:47	
EPA 300.0	Nitrate+Nitrite as N	0.692	mg/L	0.100	0.044		X419118	RS	05/08/24 12:47	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X419118	RS	05/08/24 12:47	
EPA 300.0	Sulfate as SO4	20.5	mg/L	0.30	0.18		X419118	RS	05/08/24 12:47	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1.19 meq/L	Anion Sum: 1.24 meq/L	C/A Balance: -2.03 %	Calculated TDS: 70	TDS/cTDS: 1.24

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

Tawnya M. Hall
Project Manager Assistant

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0125**

Reported: 31-May-24 15:41

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

Sampled: 07-May-24 12:30

Received: 08-May-24

Sampled By: PB

SVL Sample ID: **X4E0125-05 (Ground Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	26.7	mg/L	0.100	0.069		X420003	NMS	05/14/24 17:28	
EPA 200.7	Magnesium	6.08	mg/L	0.500	0.090		X420003	NMS	05/14/24 17:28	
EPA 200.7	Potassium	1.22	mg/L	0.50	0.18		X420003	NMS	05/14/24 17:28	
SM 2340 B	Hardness (as CaCO3)	90.3	mg/L	2.31	0.543		N/A		05/14/24 17:28	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X419175	NMS	05/21/24 10:10	
EPA 200.7	Barium	0.0545	mg/L	0.0020	0.0019		X419175	NMS	05/21/24 10:10	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X419175	NMS	05/21/24 10:10	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X419175	NMS	05/21/24 10:10	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X419175	NMS	05/21/24 10:10	
EPA 200.7	Calcium	26.4	mg/L	0.100	0.069		X419175	NMS	05/21/24 10:10	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X419175	NMS	05/21/24 10:10	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X419175	NMS	05/21/24 10:10	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X419175	NMS	05/21/24 10:10	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X419175	NMS	05/21/24 10:10	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X419175	NMS	05/21/24 10:10	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X419175	NMS	05/21/24 10:10	
EPA 200.7	Magnesium	5.93	mg/L	0.500	0.090		X419175	NMS	05/21/24 10:10	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X419175	NMS	05/21/24 10:10	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X419175	NMS	05/21/24 10:10	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X419175	NMS	05/21/24 10:10	
EPA 200.7	Potassium	1.19	mg/L	0.50	0.18		X419175	NMS	05/21/24 10:10	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X419175	NMS	05/21/24 10:10	
EPA 200.7	Sodium	12.4	mg/L	0.50	0.12		X419175	NMS	05/21/24 10:10	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X419175	NMS	05/21/24 10:10	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X419175	NMS	05/21/24 10:10	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X419226	SMU	05/20/24 17:10	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X419226	SMU	05/20/24 17:10	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X419226	SMU	05/20/24 17:10	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X419226	SMU	05/20/24 17:10	
EPA 200.8	Uranium	0.000846	mg/L	0.000100	0.000052		X419226	SMU	05/20/24 17:10	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X420050	MAC	05/15/24 15:14	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X421015	DD	05/28/24 12:59	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X420008	JPM	05/14/24 11:00	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X419185	JPM	05/10/24 10:12	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X420066	DD	05/15/24 11:33	
SM 2310 B	Acidity to pH 8.3	-57.6	mg/L as CaCO3	10.0			X419182	MWD	05/10/24 07:42	
SM 2320 B	Total Alkalinity	63.4	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 14:06	
SM 2320 B	Bicarbonate	63.4	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 14:06	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 14:06	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 14:06	
SM 2540 C	Total Diss. Solids	156	mg/L	10			X419120	TJL	05/09/24 13:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X419121	TJL	05/09/24 15:00	
SM 4500 H B	pH @21.0°C	7.0	pH Units				X419144	MWD	05/09/24 14:06	H5

SVL holds the following certifications:

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

Work order Report Page 10 of 22



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

Newmont - Cripple Creek & Victor					Project Name: Cripple Creek/Victor Water and Soil 2024				
Post Office Box 191					Work Order: X4E0125				
Victor, CO 80860					Reported: 31-May-24 15:41				

Client Sample ID: GVMW-22 B

SVL Sample ID: X4E0125-05 (Ground Water)

Sample Report Page 2 of 2

Sampled: 07-May-24 12:30
Received: 08-May-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	11.8	mg/L	2.00	0.22	10	X419118	RS	05/08/24 14:17	D2
EPA 300.0	Fluoride	0.414	mg/L	0.100	0.017		X419118	RS	05/08/24 13:59	
EPA 300.0	Nitrate as N	0.659	mg/L	0.050	0.013		X419118	RS	05/08/24 13:59	
EPA 300.0	Nitrate+Nitrite as N	0.659	mg/L	0.100	0.044		X419118	RS	05/08/24 13:59	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X419118	RS	05/08/24 13:59	
EPA 300.0	Sulfate as SO4	38.3	mg/L	0.30	0.18		X419118	RS	05/08/24 13:59	

Cation/Anion Balance and TDS Ratios

Cation Sum: 2.39 meq/L	Anion Sum: 2.47 meq/L	C/A Balance: -1.59 %	Calculated TDS: 138	TDS/cTDS: 1.13

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

Tawnya M. Hall
Project Manager Assistant

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0125**

Reported: 31-May-24 15:41

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

Sampled: 07-May-24 13:23

Received: 08-May-24

Sampled By: PB

SVL Sample ID: **X4E0125-06 (Ground Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	30.2	mg/L	0.100	0.069		X420003	NMS	05/14/24 17:32	
EPA 200.7	Magnesium	12.4	mg/L	0.500	0.090		X420003	NMS	05/14/24 17:32	
EPA 200.7	Potassium	1.43	mg/L	0.50	0.18		X420003	NMS	05/14/24 17:32	
SM 2340 B	Hardness (as CaCO3)	125	mg/L	2.31	0.543		N/A		05/14/24 17:32	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X419175	NMS	05/21/24 10:14	
EPA 200.7	Barium	0.106	mg/L	0.0020	0.0019		X419175	NMS	05/21/24 10:14	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X419175	NMS	05/21/24 10:14	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X419175	NMS	05/21/24 10:14	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X419175	NMS	05/21/24 10:14	
EPA 200.7	Calcium	29.6	mg/L	0.100	0.069		X419175	NMS	05/21/24 10:14	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X419175	NMS	05/21/24 10:14	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X419175	NMS	05/21/24 10:14	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X419175	NMS	05/21/24 10:14	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X419175	NMS	05/21/24 10:14	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X419175	NMS	05/21/24 10:14	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X419175	NMS	05/21/24 10:14	
EPA 200.7	Magnesium	12.0	mg/L	0.500	0.090		X419175	NMS	05/21/24 10:14	
EPA 200.7	Manganese	0.0082	mg/L	0.0080	0.0034		X419175	NMS	05/21/24 10:14	
EPA 200.7	Molybdenum	0.0156	mg/L	0.0080	0.0034		X419175	NMS	05/21/24 10:14	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X419175	NMS	05/21/24 10:14	
EPA 200.7	Potassium	1.41	mg/L	0.50	0.18		X419175	NMS	05/21/24 10:14	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X419175	NMS	05/21/24 10:14	
EPA 200.7	Sodium	37.1	mg/L	0.50	0.12		X419175	NMS	05/21/24 10:14	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X419175	NMS	05/21/24 10:14	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X419175	NMS	05/21/24 10:14	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X419226	SMU	05/20/24 17:12	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X419226	SMU	05/20/24 17:12	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X419226	SMU	05/20/24 17:12	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X419226	SMU	05/20/24 17:12	
EPA 200.8	Uranium	0.00358	mg/L	0.000100	0.000052		X419226	SMU	05/20/24 17:12	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X420050	MAC	05/15/24 15:16	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X421015	DD	05/28/24 13:01	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X420008	JPM	05/14/24 11:03	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X419185	JPM	05/10/24 10:14	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X420066	DD	05/15/24 11:34	
SM 2310 B	Acidity to pH 8.3	-163	mg/L as CaCO3	10.0			X419182	MWD	05/10/24 07:42	
SM 2320 B	Total Alkalinity	166	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 14:11	
SM 2320 B	Bicarbonate	166	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 14:11	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 14:11	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 14:11	
SM 2540 C	Total Diss. Solids	198	mg/L	10			X419120	TJL	05/09/24 13:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X419121	TJL	05/09/24 15:00	
SM 4500 H B	pH @21.2°C	7.9	pH Units				X419144	MWD	05/09/24 14:11	H5

SVL holds the following certifications:

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

Work order Report Page 12 of 22



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

Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4E0125 Reported: 31-May-24 15:41

Client Sample ID: **GVMW-22 A**
SVL Sample ID: **X4E0125-06 (Ground Water)**

Sampled: 07-May-24 13:23
Received: 08-May-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	4.24	mg/L	0.20	0.02		X419118	RS	05/08/24 17:00	
EPA 300.0	Fluoride	2.15	mg/L	0.100	0.017		X419118	RS	05/08/24 17:00	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X419118	RS	05/08/24 17:00	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X419118	RS	05/08/24 17:00	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X419118	RS	05/08/24 17:00	
EPA 300.0	Sulfate as SO4	34.4	mg/L	0.30	0.18		X419118	RS	05/08/24 17:00	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.13 meq/L	Anion Sum: 4.27 meq/L	C/A Balance: -1.66 %	Calculated TDS: 221	TDS/cTDS: 0.90

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

Tawnya M. Hall
Project Manager Assistant

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0125**

Reported: 31-May-24 15:41

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	X420003	14-May-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X420003	14-May-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X420003	14-May-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X419175	21-May-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X419175	21-May-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X419175	21-May-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X419175	21-May-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X419175	21-May-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X419175	21-May-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X419175	21-May-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X419175	21-May-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X419175	21-May-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X419175	21-May-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X419175	21-May-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X419175	21-May-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X419175	21-May-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X419175	21-May-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X419175	21-May-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X419175	21-May-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X419175	21-May-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X419175	21-May-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X419175	21-May-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X419175	21-May-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X419175	21-May-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X419226	20-May-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X419226	20-May-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X419226	20-May-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X419226	20-May-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X419226	20-May-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X420050	15-May-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X421014	23-May-24	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X421015	28-May-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X420008	14-May-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X419185	10-May-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X420066	15-May-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X419182	10-May-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X419144	09-May-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X419144	09-May-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X419144	09-May-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X419144	09-May-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X419120	09-May-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X422104	31-May-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X419121	09-May-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X419118	08-May-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X419118	08-May-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X419118	08-May-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X419118	08-May-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X419118	08-May-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X419118	08-May-24	

SVL holds the following certifications:

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

Work order Report Page 16 of 22



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0125**

Reported: 31-May-24 15:41

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	19.5	20.0	97	85 - 115	X420003	14-May-24	
EPA 200.7	Magnesium	mg/L	18.7	20.0	93.6	85 - 115	X420003	14-May-24	
EPA 200.7	Potassium	mg/L	19.5	20.0	97.5	85 - 115	X420003	14-May-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.999	1.00	99.9	85 - 115	X419175	21-May-24	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X419175	21-May-24	
EPA 200.7	Beryllium	mg/L	0.995	1.00	99.5	85 - 115	X419175	21-May-24	
EPA 200.7	Boron	mg/L	1.00	1.00	100	85 - 115	X419175	21-May-24	
EPA 200.7	Cadmium	mg/L	0.982	1.00	98.2	85 - 115	X419175	21-May-24	
EPA 200.7	Calcium	mg/L	19.6	20.0	98.2	85 - 115	X419175	21-May-24	
EPA 200.7	Chromium	mg/L	1.01	1.00	101	85 - 115	X419175	21-May-24	
EPA 200.7	Cobalt	mg/L	0.965	1.00	96.5	85 - 115	X419175	21-May-24	
EPA 200.7	Copper	mg/L	1.00	1.00	100	85 - 115	X419175	21-May-24	
EPA 200.7	Iron	mg/L	9.77	10.0	97.7	85 - 115	X419175	21-May-24	
EPA 200.7	Lead	mg/L	0.981	1.00	98.1	85 - 115	X419175	21-May-24	
EPA 200.7	Lithium	mg/L	0.984	1.00	98.4	85 - 115	X419175	21-May-24	
EPA 200.7	Magnesium	mg/L	19.8	20.0	98.9	85 - 115	X419175	21-May-24	
EPA 200.7	Manganese	mg/L	1.00	1.00	100	85 - 115	X419175	21-May-24	
EPA 200.7	Molybdenum	mg/L	1.00	1.00	100	85 - 115	X419175	21-May-24	
EPA 200.7	Nickel	mg/L	0.954	1.00	95.4	85 - 115	X419175	21-May-24	
EPA 200.7	Potassium	mg/L	19.8	20.0	98.9	85 - 115	X419175	21-May-24	
EPA 200.7	Silver	mg/L	0.0510	0.0500	102	85 - 115	X419175	21-May-24	
EPA 200.7	Sodium	mg/L	18.7	19.0	98.5	85 - 115	X419175	21-May-24	
EPA 200.7	Vanadium	mg/L	1.01	1.00	101	85 - 115	X419175	21-May-24	
EPA 200.7	Zinc	mg/L	0.978	1.00	97.8	85 - 115	X419175	21-May-24	
EPA 200.8	Antimony	mg/L	0.0262	0.0250	105	85 - 115	X419226	20-May-24	
EPA 200.8	Arsenic	mg/L	0.0247	0.0250	99.0	85 - 115	X419226	20-May-24	
EPA 200.8	Selenium	mg/L	0.0237	0.0250	94.8	85 - 115	X419226	20-May-24	
EPA 200.8	Thallium	mg/L	0.0243	0.0250	97.2	85 - 115	X419226	20-May-24	
EPA 200.8	Uranium	mg/L	0.0247	0.0250	98.6	85 - 115	X419226	20-May-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00200	0.00200	99.9	85 - 115	X420050	15-May-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0940	0.100	94.0	90 - 110	X421014	23-May-24	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.103	0.100	103	90 - 110	X421015	28-May-24	
EPA 335.4	Cyanide (total)	mg/L	0.0960	0.100	96.0	90 - 110	X420008	14-May-24	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X419185	10-May-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0980	0.100	98.0	90 - 110	X420066	15-May-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	879	884	99.5	95.4 - 104	X419182	10-May-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	96.4 - 105	X419144	09-May-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	102	99.3	103	96.4 - 105	X419144	09-May-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X419121	09-May-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.04	3.00	101	90 - 110	X419118	08-May-24	
EPA 300.0	Fluoride	mg/L	2.00	2.00	100	90 - 110	X419118	08-May-24	
EPA 300.0	Nitrate as N	mg/L	2.01	2.00	100	90 - 110	X419118	08-May-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.54	4.50	101	90 - 110	X419118	08-May-24	
EPA 300.0	Nitrite as N	mg/L	2.53	2.50	101	90 - 110	X419118	08-May-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X419118	08-May-24	

SVL holds the following certifications:

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

Work order Report Page 17 of 22

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0125**

Reported: 31-May-24 15:41

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	3080	3080	0.0	20	X419182 - X4E0041-02	10-May-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X419144 - X4E0125-02	09-May-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X419144 - X4E0125-02	09-May-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X419144 - X4E0125-02	09-May-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X419144 - X4E0125-02	09-May-24	
SM 2540 C	Total Diss. Solids	mg/L	186	399	72.8	10	X419120 - X4E0125-03	09-May-24	R2B
SM 2540 C	Total Diss. Solids	mg/L	802	823	2.6	10	X419120 - X4E0127-07	09-May-24	
SM 2540 C	Total Diss. Solids	mg/L	849	848	0.1	10	X422104 - X4E0450-01	31-May-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	9.0	0.0	10	X419121 - X4E0125-03	09-May-24	
SM 4500 H B	pH @20.7°C	pH Units	3.8	3.8	1.1	20	X419144 - X4E0125-02	09-May-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	36.6	17.3	20.0	97	70 - 130	X420003 - X4E0144-05	14-May-24	
EPA 200.7	Calcium	mg/L	498	467	20.0	0.30R>S	70 - 130	X420003 - X4E0125-01	14-May-24	D2,M4
EPA 200.7	Magnesium	mg/L	208	193	20.0	79.2	70 - 130	X420003 - X4E0125-01	14-May-24	
EPA 200.7	Magnesium	mg/L	20.5	1.00	20.0	97.6	70 - 130	X420003 - X4E0144-05	14-May-24	
EPA 200.7	Potassium	mg/L	27.6	5.47	20.0	110	70 - 130	X420003 - X4E0125-01	14-May-24	
EPA 200.7	Potassium	mg/L	19.9	<0.50	20.0	98.7	70 - 130	X420003 - X4E0144-05	14-May-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.08	0.115	1.00	96.7	70 - 130	X419175 - X4E0098-01	21-May-24	
EPA 200.7	Aluminum	mg/L	11.3	10.2	1.00	104	70 - 130	X419175 - X4E0127-09	21-May-24	
EPA 200.7	Barium	mg/L	1.01	0.0442	1.00	97.1	70 - 130	X419175 - X4E0098-01	21-May-24	
EPA 200.7	Barium	mg/L	1.03	0.0100	1.00	102	70 - 130	X419175 - X4E0127-09	21-May-24	
EPA 200.7	Beryllium	mg/L	0.993	<0.00200	1.00	99.3	70 - 130	X419175 - X4E0098-01	21-May-24	
EPA 200.7	Beryllium	mg/L	1.00	0.00302	1.00	100	70 - 130	X419175 - X4E0127-09	21-May-24	
EPA 200.7	Boron	mg/L	1.10	0.0947	1.00	101	70 - 130	X419175 - X4E0098-01	21-May-24	
EPA 200.7	Boron	mg/L	1.07	0.0450	1.00	102	70 - 130	X419175 - X4E0127-09	21-May-24	
EPA 200.7	Cadmium	mg/L	0.960	<0.0020	1.00	96.0	70 - 130	X419175 - X4E0098-01	21-May-24	
EPA 200.7	Cadmium	mg/L	1.04	0.0766	1.00	96.2	70 - 130	X419175 - X4E0127-09	21-May-24	
EPA 200.7	Calcium	mg/L	112	91.9	20.0	102	70 - 130	X419175 - X4E0098-01	21-May-24	
EPA 200.7	Calcium	mg/L	230	204	20.0	130	70 - 130	X419175 - X4E0127-09	21-May-24	
EPA 200.7	Chromium	mg/L	0.974	<0.0060	1.00	97.4	70 - 130	X419175 - X4E0098-01	21-May-24	
EPA 200.7	Chromium	mg/L	0.988	<0.0060	1.00	98.8	70 - 130	X419175 - X4E0127-09	21-May-24	
EPA 200.7	Cobalt	mg/L	0.960	0.0148	1.00	94.6	70 - 130	X419175 - X4E0098-01	21-May-24	
EPA 200.7	Cobalt	mg/L	1.19	0.215	1.00	97.1	70 - 130	X419175 - X4E0127-09	21-May-24	
EPA 200.7	Copper	mg/L	1.00	<0.0100	1.00	99.3	70 - 130	X419175 - X4E0098-01	21-May-24	
EPA 200.7	Copper	mg/L	28.3	27.8	1.00	0.30R>S	70 - 130	X419175 - X4E0127-09	21-May-24	M3
EPA 200.7	Iron	mg/L	9.72	<0.100	10.0	97.2	70 - 130	X419175 - X4E0098-01	21-May-24	
EPA 200.7	Iron	mg/L	10.2	<0.100	10.0	102	70 - 130	X419175 - X4E0127-09	21-May-24	
EPA 200.7	Lead	mg/L	0.950	<0.0075	1.00	95.0	70 - 130	X419175 - X4E0098-01	21-May-24	
EPA 200.7	Lead	mg/L	0.961	<0.0075	1.00	96.1	70 - 130	X419175 - X4E0127-09	21-May-24	
EPA 200.7	Lithium	mg/L	0.973	<0.040	1.00	94.1	70 - 130	X419175 - X4E0098-01	21-May-24	
EPA 200.7	Lithium	mg/L	1.02	<0.040	1.00	98.4	70 - 130	X419175 - X4E0127-09	21-May-24	
EPA 200.7	Magnesium	mg/L	40.6	21.3	20.0	96.5	70 - 130	X419175 - X4E0098-01	21-May-24	
EPA 200.7	Magnesium	mg/L	96.9	75.1	20.0	109	70 - 130	X419175 - X4E0127-09	21-May-24	

SVL holds the following certifications:

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

Work order Report Page 18 of 22



One Government Gulch - PO Box 929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0125**

Reported: 31-May-24 15:41

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	5.23	4.23	1.00	101	70 - 130	X419175 - X4E0098-01	21-May-24	
EPA 200.7	Manganese	mg/L	46.6	45.5	1.00	118	70 - 130	X419175 - X4E0127-09	21-May-24	
EPA 200.7	Molybdenum	mg/L	0.979	<0.0080	1.00	97.9	70 - 130	X419175 - X4E0098-01	21-May-24	
EPA 200.7	Molybdenum	mg/L	0.988	<0.0080	1.00	98.8	70 - 130	X419175 - X4E0127-09	21-May-24	
EPA 200.7	Nickel	mg/L	0.959	0.0226	1.00	93.7	70 - 130	X419175 - X4E0098-01	21-May-24	
EPA 200.7	Nickel	mg/L	1.00	0.0424	1.00	95.8	70 - 130	X419175 - X4E0127-09	21-May-24	
EPA 200.7	Potassium	mg/L	25.7	5.88	20.0	99.1	70 - 130	X419175 - X4E0098-01	21-May-24	
EPA 200.7	Potassium	mg/L	26.1	4.98	20.0	106	70 - 130	X419175 - X4E0127-09	21-May-24	
EPA 200.7	Silver	mg/L	0.0497	<0.0050	0.0500	99.4	70 - 130	X419175 - X4E0098-01	21-May-24	
EPA 200.7	Silver	mg/L	0.0521	<0.0050	0.0500	104	70 - 130	X419175 - X4E0127-09	21-May-24	
EPA 200.7	Sodium	mg/L	121	102	19.0	97.9	70 - 130	X419175 - X4E0098-01	21-May-24	
EPA 200.7	Sodium	mg/L	59.6	39.4	19.0	106	70 - 130	X419175 - X4E0127-09	21-May-24	
EPA 200.7	Vanadium	mg/L	0.993	<0.0050	1.00	99.3	70 - 130	X419175 - X4E0098-01	21-May-24	
EPA 200.7	Vanadium	mg/L	1.02	<0.0050	1.00	101	70 - 130	X419175 - X4E0127-09	21-May-24	
EPA 200.7	Zinc	mg/L	1.23	0.250	1.00	97.7	70 - 130	X419175 - X4E0098-01	21-May-24	
EPA 200.7	Zinc	mg/L	10.4	9.93	1.00	0.30R>S	70 - 130	X419175 - X4E0127-09	21-May-24	M3
EPA 200.8	Antimony	mg/L	0.0259	<0.00100	0.0250	104	70 - 130	X419226 - X4E0174-01	20-May-24	
EPA 200.8	Antimony	mg/L	<0.100	<0.100	0.0250	N/A	70 - 130	X419226 - X4E0125-01	20-May-24	D1,M4
EPA 200.8	Arsenic	mg/L	0.0259	<0.00100	0.0250	104	70 - 130	X419226 - X4E0174-01	20-May-24	
EPA 200.8	Arsenic	mg/L	<0.100	<0.100	0.0250	137	70 - 130	X419226 - X4E0125-01	20-May-24	D1,M4
EPA 200.8	Selenium	mg/L	0.0253	<0.00100	0.0250	101	70 - 130	X419226 - X4E0174-01	20-May-24	
EPA 200.8	Selenium	mg/L	<0.100	<0.100	0.0250	N/A	70 - 130	X419226 - X4E0125-01	20-May-24	D1,M4
EPA 200.8	Thallium	mg/L	0.0234	<0.000200	0.0250	93.6	70 - 130	X419226 - X4E0174-01	20-May-24	
EPA 200.8	Thallium	mg/L	0.0301	<0.0200	0.0250	120	70 - 130	X419226 - X4E0125-01	20-May-24	D1
EPA 200.8	Uranium	mg/L	0.0264	0.00194	0.0250	97.9	70 - 130	X419226 - X4E0174-01	20-May-24	
EPA 200.8	Uranium	mg/L	0.693	0.663	0.0250	120	70 - 130	X419226 - X4E0125-01	20-May-24	D1

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00200	<0.000200	0.00200	100	70 - 130	X420050 - X4E0098-01	15-May-24	
EPA 245.1	Mercury	mg/L	0.00199	<0.000200	0.00200	99.7	70 - 130	X420050 - X4E0125-06	15-May-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0900	<0.0050	0.100	90.0	79 - 121	X421014 - X4E0098-01	23-May-24	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.105	<0.0050	0.100	105	79 - 121	X421015 - X4E0273-01	28-May-24	
EPA 335.4	Cyanide (total)	mg/L	0.0937	<0.0050	0.100	93.7	90 - 110	X420008 - X4E0098-01	14-May-24	
EPA 335.4	Cyanide (total)	mg/L	0.0958	<0.0050	0.100	95.8	90 - 110	X420008 - X4E0098-02	14-May-24	
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X419185 - X4E0125-04	10-May-24	R2B
EPA 350.1	Ammonia as N	mg/L	1.05	<0.030	1.00	105	90 - 110	X419185 - X4E0125-02	10-May-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0890	<0.0050	0.100	88.0	82 - 118	X420066 - X4E0036-01	15-May-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	11.3	8.16	3.00	106	90 - 110	X419118 - X4E0125-07	08-May-24	
EPA 300.0	Chloride	mg/L	4.90	1.83	3.00	102	90 - 110	X419118 - X4E0125-04	08-May-24	
EPA 300.0	Fluoride	mg/L	2.05	<0.100	2.00	101	90 - 110	X419118 - X4E0125-07	08-May-24	
EPA 300.0	Fluoride	mg/L	2.20	0.217	2.00	99.2	90 - 110	X419118 - X4E0125-04	08-May-24	
EPA 300.0	Nitrate as N	mg/L	2.00	<0.050	2.00	99.8	90 - 110	X419118 - X4E0125-07	08-May-24	
EPA 300.0	Nitrate as N	mg/L	2.69	0.692	2.00	100	90 - 110	X419118 - X4E0125-04	08-May-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.04	<0.100	4.00	101	90 - 110	X419118 - X4E0125-07	08-May-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.72	0.692	4.00	101	90 - 110	X419118 - X4E0125-04	08-May-24	
EPA 300.0	Nitrite as N	mg/L	2.05	<0.050	2.00	102	90 - 110	X419118 - X4E0125-07	08-May-24	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X419118 - X4E0125-04	08-May-24	

SVL holds the following certifications:

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

Work order Report Page 19 of 22

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0125**

Reported: 31-May-24 15:41

Quality Control - MATRIX SPIKE Data (Continued)

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

Anions by Ion Chromatography (Continued)

EPA 300.0	Sulfate as SO ₄	mg/L	10.5	<0.30	10.0	103	90 - 110	X419118 - X4E0125-07	08-May-24	
EPA 300.0	Sulfate as SO ₄	mg/L	30.6	20.5	10.0	101	90 - 110	X419118 - X4E0125-04	08-May-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	488	498	20.0	2.0	20	106	X420003 - X4E0125-01	D2
EPA 200.7	Magnesium	mg/L	212	208	20.0	1.8	20	98.0	X420003 - X4E0125-01	
EPA 200.7	Potassium	mg/L	26.6	27.6	20.0	3.6	20	105	X420003 - X4E0125-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.07	1.08	1.00	0.7	20	95.9	X419175 - X4E0098-01	
EPA 200.7	Barium	mg/L	1.01	1.01	1.00	0.1	20	96.9	X419175 - X4E0098-01	
EPA 200.7	Beryllium	mg/L	0.986	0.993	1.00	0.8	20	98.6	X419175 - X4E0098-01	
EPA 200.7	Boron	mg/L	1.09	1.10	1.00	0.6	20	99.9	X419175 - X4E0098-01	
EPA 200.7	Cadmium	mg/L	0.954	0.960	1.00	0.7	20	95.4	X419175 - X4E0098-01	
EPA 200.7	Calcium	mg/L	112	112	20.0	0.6	20	98.6	X419175 - X4E0098-01	
EPA 200.7	Chromium	mg/L	0.971	0.974	1.00	0.3	20	97.1	X419175 - X4E0098-01	
EPA 200.7	Cobalt	mg/L	0.955	0.960	1.00	0.6	20	94.0	X419175 - X4E0098-01	
EPA 200.7	Copper	mg/L	0.982	1.00	1.00	1.9	20	97.4	X419175 - X4E0098-01	
EPA 200.7	Iron	mg/L	9.75	9.72	10.0	0.3	20	97.5	X419175 - X4E0098-01	
EPA 200.7	Lead	mg/L	0.945	0.950	1.00	0.5	20	94.5	X419175 - X4E0098-01	
EPA 200.7	Lithium	mg/L	0.965	0.973	1.00	0.8	20	93.3	X419175 - X4E0098-01	
EPA 200.7	Magnesium	mg/L	40.6	40.6	20.0	0.1	20	96.7	X419175 - X4E0098-01	
EPA 200.7	Manganese	mg/L	5.18	5.23	1.00	1.0	20	95.5	X419175 - X4E0098-01	
EPA 200.7	Molybdenum	mg/L	0.980	0.979	1.00	0.1	20	98.0	X419175 - X4E0098-01	
EPA 200.7	Nickel	mg/L	0.954	0.959	1.00	0.5	20	93.1	X419175 - X4E0098-01	
EPA 200.7	Potassium	mg/L	25.8	25.7	20.0	0.3	20	99.4	X419175 - X4E0098-01	
EPA 200.7	Silver	mg/L	0.0500	0.0497	0.0500	0.6	20	100	X419175 - X4E0098-01	
EPA 200.7	Sodium	mg/L	120	121	19.0	0.3	20	95.7	X419175 - X4E0098-01	
EPA 200.7	Vanadium	mg/L	0.990	0.993	1.00	0.4	20	99.0	X419175 - X4E0098-01	
EPA 200.7	Zinc	mg/L	1.21	1.23	1.00	1.1	20	96.4	X419175 - X4E0098-01	
EPA 200.8	Antimony	mg/L	<0.100	<0.100	0.0250	N/A	20	N/A	X419226 - X4E0125-01	D1,M4
EPA 200.8	Arsenic	mg/L	<0.100	<0.100	0.0250	10.9	20	123	X419226 - X4E0125-01	D1
EPA 200.8	Selenium	mg/L	<0.100	<0.100	0.0250	N/A	20	N/A	X419226 - X4E0125-01	D1,M4
EPA 200.8	Thallium	mg/L	0.0307	0.0301	0.0250	2.1	20	123	X419226 - X4E0125-01	D1
EPA 200.8	Uranium	mg/L	0.650	0.693	0.0250	6.4	20	0.30R>S	X419226 - X4E0125-01	D1,M4

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00203	0.00200	0.00200	1.2	20	101	X420050 - X4E0098-01	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0890	0.0900	0.100	1.1	11	89.0	X421014 - X4E0098-01	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.100	0.105	0.100	4.9	11	100	X421015 - X4E0273-01	
EPA 335.4	Cyanide (total)	mg/L	0.0943	0.0937	0.100	0.6	20	94.3	X420008 - X4E0098-01	
EPA 350.1	Ammonia as N	mg/L	0.729	1.03	1.00	34.1	20	72.9	X419185 - X4E0125-04	M2,R2B
OIA 1677	Cyanide (WAD)	mg/L	0.0990	0.0890	0.100	10.6	11	98.0	X420066 - X4E0036-01	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	11.4	11.3	3.00	0.5	20	108	X419118 - X4E0125-07	
EPA 300.0	Fluoride	mg/L	2.07	2.05	2.00	0.8	20	101	X419118 - X4E0125-07	

SVL holds the following certifications:

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

Work order Report Page 20 of 22



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

Newmont - Cripple Creek & Victor				Project Name: Cripple Creek/Victor Water and Soil 2024			
Post Office Box 191				Work Order: X4E0125			
Victor, CO 80860				Reported: 31-May-24 15:41			

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	Nitrate as N	mg/L	2.01	2.00	2.00	0.7	20	101	X419118 - X4E0125-07	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.08	4.04	4.00	0.9	20	102	X419118 - X4E0125-07	
EPA 300.0	Nitrite as N	mg/L	2.07	2.05	2.00	1.2	20	104	X419118 - X4E0125-07	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.5	10.0	0.1	20	104	X419118 - X4E0125-07	



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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0125**

Reported: 31-May-24 15:41

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
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.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q24	COC was not relinquished by the client or an agent of the client.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0174**

Reported: 29-May-24 17:19

Client Sample ID: **GVMW-8B**SVL Sample ID: **X4E0174-01 (Ground Water)**

Sampled: 09-May-24 08:07

Received: 10-May-24

Sampled By: PB

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	42.0	mg/L	0.100	0.069		X420005	NMS	05/14/24 13:57	
EPA 200.7	Magnesium	6.55	mg/L	0.500	0.090		X420005	NMS	05/14/24 13:57	
EPA 200.7	Potassium	1.47	mg/L	0.50	0.18		X420005	NMS	05/14/24 13:57	
SM 2340 B	Hardness (as CaCO3)	141	mg/L	2.31	0.543		N/A		05/14/24 13:57	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X420017	NMS	05/14/24 14:39	
EPA 200.7	Barium	0.0095	mg/L	0.0020	0.0019		X420017	NMS	05/14/24 14:39	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X420017	NMS	05/14/24 14:39	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X420017	NMS	05/14/24 14:39	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X420017	NMS	05/14/24 14:39	
EPA 200.7	Calcium	45.4	mg/L	0.100	0.069		X420017	NMS	05/14/24 14:39	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X420017	NMS	05/14/24 14:39	
EPA 200.7	Cobalt	0.0078	mg/L	0.0060	0.0046		X420017	NMS	05/14/24 14:39	
EPA 200.7	Copper	0.0159	mg/L	0.0100	0.0027		X420017	NMS	05/14/24 14:39	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X420017	NMS	05/14/24 14:39	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X420017	NMS	05/20/24 12:59	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X420017	NMS	05/14/24 14:39	
EPA 200.7	Magnesium	6.78	mg/L	0.500	0.090		X420017	NMS	05/14/24 14:39	
EPA 200.7	Manganese	0.0135	mg/L	0.0080	0.0034		X420017	NMS	05/14/24 14:39	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X420017	NMS	05/14/24 14:39	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X420017	NMS	05/14/24 14:39	
EPA 200.7	Potassium	1.42	mg/L	0.50	0.18		X420017	NMS	05/14/24 14:39	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X420017	NMS	05/14/24 14:39	
EPA 200.7	Sodium	25.1	mg/L	0.50	0.12		X420017	NMS	05/14/24 14:39	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X420017	NMS	05/14/24 14:39	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X420017	NMS	05/14/24 14:39	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X419226	SMU	05/20/24 18:18	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X419226	SMU	05/20/24 18:18	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X419226	SMU	05/20/24 18:18	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X419226	SMU	05/20/24 18:18	
EPA 200.8	Uranium	0.00194	mg/L	0.000100	0.000052		X419226	SMU	05/20/24 18:18	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X420170	MAC	05/24/24 12:08	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X421015	DD	05/28/24 13:05	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X420008	JPM	05/14/24 11:08	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X420027	JPM	05/15/24 08:57	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X420067	DD	05/15/24 11:43	
SM 2310 B	Acidity to pH 8.3	-36.9	mg/L as CaCO3	10.0			X420198	MWD	05/17/24 10:32	
SM 2320 B	Total Alkalinity	32.9	mg/L as CaCO3	1.0			X420038	MWD	05/14/24 12:27	
SM 2320 B	Bicarbonate	32.9	mg/L as CaCO3	1.0			X420038	MWD	05/14/24 12:27	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X420038	MWD	05/14/24 12:27	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X420038	MWD	05/14/24 12:27	
SM 2540 C	Total Diss. Solids	280	mg/L	10			X420009	TJL	05/14/24 14:40	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X420010	TJL	05/14/24 15:05	
SM 4500 H B	pH @20.7°C	6.9	pH Units				X420038	MWD	05/14/24 12:27	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 17



One Government Gulch - PO Box 929

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(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0174**

Reported: 29-May-24 17:19

Client Sample ID: **GVMW-8B**SVL Sample ID: **X4E0174-01 (Ground Water)**

Sampled: 09-May-24 08:07

Received: 10-May-24

Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	25.3	mg/L	2.00	0.22	10	X419200	RS	05/10/24 11:39	D2,M4
EPA 300.0	Fluoride	2.29	mg/L	0.100	0.017		X419200	RS	05/10/24 11:21	
EPA 300.0	Nitrate as N	2.01	mg/L	0.050	0.013		X419200	RS	05/10/24 11:21	
EPA 300.0	Nitrate+Nitrite as N	2.01	mg/L	0.100	0.044		X419200	RS	05/10/24 11:21	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X419200	RS	05/10/24 11:21	
EPA 300.0	Sulfate as SO4	119	mg/L	3.00	1.80	10	X419200	RS	05/10/24 11:39	D2,M4

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.78 meq/L

Anion Sum: 4.11 meq/L

C/A Balance: -4.26 %

Calculated TDS: 252

TDS/cTDS: 1.11

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

Dave Tryon

Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net
Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0174**

Reported: 29-May-24 17:19

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

Sampled: 09-May-24 09:02

Received: 10-May-24

Sampled By: PB

SVL Sample ID: **X4E0174-02 (Ground Water)**
Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	47.6	mg/L	0.100	0.069		X420005	NMS	05/14/24 14:00	
EPA 200.7	Magnesium	5.97	mg/L	0.500	0.090		X420005	NMS	05/14/24 14:00	
EPA 200.7	Potassium	0.86	mg/L	0.50	0.18		X420005	NMS	05/14/24 14:00	
SM 2340 B	Hardness (as CaCO3)	155	mg/L	2.31	0.543		N/A		05/14/24 14:43	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X420017	NMS	05/14/24 14:43	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X420017	NMS	05/14/24 14:43	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X420017	NMS	05/14/24 14:43	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X420017	NMS	05/14/24 14:43	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X420017	NMS	05/14/24 14:43	
EPA 200.7	Calcium	52.1	mg/L	0.100	0.069		X420017	NMS	05/14/24 14:43	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X420017	NMS	05/14/24 14:43	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X420017	NMS	05/14/24 14:43	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X420017	NMS	05/14/24 14:43	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X420017	NMS	05/14/24 14:43	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X420017	NMS	05/20/24 13:03	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X420017	NMS	05/14/24 14:43	
EPA 200.7	Magnesium	6.22	mg/L	0.500	0.090		X420017	NMS	05/14/24 14:43	
EPA 200.7	Manganese	0.0114	mg/L	0.0080	0.0034		X420017	NMS	05/14/24 14:43	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X420017	NMS	05/14/24 14:43	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X420017	NMS	05/14/24 14:43	
EPA 200.7	Potassium	0.73	mg/L	0.50	0.18		X420017	NMS	05/14/24 14:43	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X420017	NMS	05/14/24 14:43	
EPA 200.7	Sodium	25.3	mg/L	0.50	0.12		X420017	NMS	05/14/24 14:43	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X420017	NMS	05/14/24 14:43	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X420017	NMS	05/14/24 14:43	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X419226	SMU	05/20/24 18:28	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X419226	SMU	05/20/24 18:28	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X419226	SMU	05/20/24 18:28	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X419226	SMU	05/20/24 18:28	
EPA 200.8	Uranium	0.00465	mg/L	0.000100	0.000052		X419226	SMU	05/20/24 18:28	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X420170	MAC	05/24/24 12:10	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X421015	DD	05/28/24 15:04	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X420008	JPM	05/14/24 11:11	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X420027	JPM	05/15/24 08:59	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X420067	DD	05/15/24 11:45	
SM 2310 B	Acidity to pH 8.3	-51.3	mg/L as CaCO3	10.0			X420198	MWD	05/17/24 10:32	
SM 2320 B	Total Alkalinity	48.5	mg/L as CaCO3	1.0			X420038	MWD	05/14/24 12:32	
SM 2320 B	Bicarbonate	48.5	mg/L as CaCO3	1.0			X420038	MWD	05/14/24 12:32	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X420038	MWD	05/14/24 12:32	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X420038	MWD	05/14/24 12:32	
SM 2540 C	Total Diss. Solids	288	mg/L	10			X420009	TJL	05/14/24 14:40	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X420010	TJL	05/14/24 15:05	
SM 4500 H B	pH @20.6°C	7.0	pH Units				X420038	MWD	05/14/24 12:32	H5

SVL holds the following certifications:

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

Work order Report Page 4 of 17



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0174**

Reported: 29-May-24 17:19

Client Sample ID: **GVMW-8A**SVL Sample ID: **X4E0174-02 (Ground Water)**

Sampled: 09-May-24 09:02

Received: 10-May-24

Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	67.7	mg/L	2.00	0.22	10	X419200	RS	05/10/24 14:07	D2
EPA 300.0	Fluoride	1.92	mg/L	0.100	0.017		X419200	RS	05/10/24 13:48	
EPA 300.0	Nitrate as N	1.35	mg/L	0.050	0.013		X419200	RS	05/10/24 13:48	
EPA 300.0	Nitrate+Nitrite as N	1.35	mg/L	0.100	0.044		X419200	RS	05/10/24 13:48	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X419200	RS	05/10/24 13:48	
EPA 300.0	Sulfate as SO4	60.3	mg/L	3.00	1.80	10	X419200	RS	05/10/24 14:07	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.00 meq/L

Anion Sum: 4.33 meq/L

C/A Balance: -3.99 %

Calculated TDS: 247

TDS/cTDS: 1.17

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

Dave Tryon

Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net
Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0174**

Reported: 29-May-24 17:19

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	X420005	14-May-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X420005	14-May-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X420005	14-May-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X420017	14-May-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X420017	14-May-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X420017	14-May-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X420017	14-May-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X420017	14-May-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X420017	14-May-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X420017	14-May-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X420017	14-May-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X420017	14-May-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X420017	14-May-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X420017	14-May-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X420017	14-May-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X420017	14-May-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X420017	14-May-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X420017	14-May-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X420017	14-May-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X420017	14-May-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X420017	14-May-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X420017	14-May-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X420017	14-May-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X420017	14-May-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X419226	20-May-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X419226	20-May-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X419226	20-May-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X419226	20-May-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X419226	20-May-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X421015	28-May-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X420008	14-May-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X420027	15-May-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X420067	15-May-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X420198	17-May-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X420038	14-May-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X420038	14-May-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X420038	14-May-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X420038	14-May-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X420009	14-May-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X420010	14-May-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X419200	10-May-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X419200	10-May-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X419200	10-May-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X419200	10-May-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X419200	10-May-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X419200	10-May-24	



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Kellogg, ID 83837-0929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0174**

Reported: 29-May-24 17:19

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	19.3	20.0	96	85 - 115	X420005	14-May-24	
EPA 200.7	Magnesium	mg/L	19.4	20.0	97.1	85 - 115	X420005	14-May-24	
EPA 200.7	Potassium	mg/L	19.6	20.0	98.2	85 - 115	X420005	14-May-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.02	1.00	102	85 - 115	X420017	14-May-24	
EPA 200.7	Barium	mg/L	1.00	1.00	100	85 - 115	X420017	14-May-24	
EPA 200.7	Beryllium	mg/L	1.05	1.00	105	85 - 115	X420017	14-May-24	
EPA 200.7	Boron	mg/L	1.05	1.00	105	85 - 115	X420017	14-May-24	
EPA 200.7	Cadmium	mg/L	1.03	1.00	103	85 - 115	X420017	14-May-24	
EPA 200.7	Calcium	mg/L	20.0	20.0	99.9	85 - 115	X420017	14-May-24	
EPA 200.7	Chromium	mg/L	1.03	1.00	103	85 - 115	X420017	14-May-24	
EPA 200.7	Cobalt	mg/L	1.01	1.00	101	85 - 115	X420017	14-May-24	
EPA 200.7	Copper	mg/L	1.00	1.00	100	85 - 115	X420017	14-May-24	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X420017	14-May-24	
EPA 200.7	Lead	mg/L	0.972	1.00	97.2	85 - 115	X420017	14-May-24	
EPA 200.7	Lithium	mg/L	1.01	1.00	101	85 - 115	X420017	14-May-24	
EPA 200.7	Magnesium	mg/L	20.0	20.0	100	85 - 115	X420017	14-May-24	
EPA 200.7	Manganese	mg/L	1.02	1.00	102	85 - 115	X420017	14-May-24	
EPA 200.7	Molybdenum	mg/L	1.05	1.00	105	85 - 115	X420017	14-May-24	
EPA 200.7	Nickel	mg/L	1.01	1.00	101	85 - 115	X420017	14-May-24	
EPA 200.7	Potassium	mg/L	20.0	20.0	100	85 - 115	X420017	14-May-24	
EPA 200.7	Silver	mg/L	0.0507	0.0500	101	85 - 115	X420017	14-May-24	
EPA 200.7	Sodium	mg/L	19.0	19.0	99.8	85 - 115	X420017	14-May-24	
EPA 200.7	Vanadium	mg/L	1.04	1.00	104	85 - 115	X420017	14-May-24	
EPA 200.7	Zinc	mg/L	1.03	1.00	103	85 - 115	X420017	14-May-24	
EPA 200.8	Antimony	mg/L	0.0262	0.0250	105	85 - 115	X419226	20-May-24	
EPA 200.8	Arsenic	mg/L	0.0247	0.0250	99.0	85 - 115	X419226	20-May-24	
EPA 200.8	Selenium	mg/L	0.0237	0.0250	94.8	85 - 115	X419226	20-May-24	
EPA 200.8	Thallium	mg/L	0.0243	0.0250	97.2	85 - 115	X419226	20-May-24	
EPA 200.8	Uranium	mg/L	0.0247	0.0250	98.6	85 - 115	X419226	20-May-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00210	0.00200	105	85 - 115	X420170	24-May-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.103	0.100	103	90 - 110	X421015	28-May-24	
EPA 335.4	Cyanide (total)	mg/L	0.0960	0.100	96.0	90 - 110	X420008	14-May-24	
EPA 350.1	Ammonia as N	mg/L	0.997	1.00	99.7	90 - 110	X420027	15-May-24	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	101	90 - 110	X420067	15-May-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	879	884	99.5	95.4 - 104	X420198	17-May-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	96.4 - 105	X420038	14-May-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	102	99.3	102	96.4 - 105	X420038	14-May-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X420010	14-May-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.10	3.00	103	90 - 110	X419200	10-May-24	
EPA 300.0	Fluoride	mg/L	2.06	2.00	103	90 - 110	X419200	10-May-24	
EPA 300.0	Nitrate as N	mg/L	2.10	2.00	105	90 - 110	X419200	10-May-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.68	4.50	104	90 - 110	X419200	10-May-24	
EPA 300.0	Nitrite as N	mg/L	2.59	2.50	103	90 - 110	X419200	10-May-24	
EPA 300.0	Sulfate as SO4	mg/L	10.6	10.0	106	90 - 110	X419200	10-May-24	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0174**

Reported: 29-May-24 17:19

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 CaCO ₃	<10.0	<10.0	UDL	20	X420198 - X4E0157-01	17-May-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	32.9	32.9	0.0	20	X420038 - X4E0174-01	14-May-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	32.9	32.9	0.0	20	X420038 - X4E0174-01	14-May-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X420038 - X4E0174-01	14-May-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X420038 - X4E0174-01	14-May-24	
SM 2540 C	Total Diss. Solids	mg/L	283	288	1.8	10	X420009 - X4E0174-02	14-May-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X420010 - X4E0174-02	14-May-24	
SM 4500 H B	pH @20.6°C	pH Units	6.8	6.9	1.0	20	X420038 - X4E0174-01	14-May-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	61.1	42.0	20.0	96	70 - 130	X420005 - X4E0174-01	14-May-24	
EPA 200.7	Magnesium	mg/L	26.1	6.55	20.0	97.6	70 - 130	X420005 - X4E0174-01	14-May-24	
EPA 200.7	Potassium	mg/L	20.7	1.47	20.0	96.3	70 - 130	X420005 - X4E0174-01	14-May-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	<0.080	1.00	101	70 - 130	X420017 - X4E0164-01	14-May-24	
EPA 200.7	Aluminum	mg/L	28.3	28.2	1.00	0.30R>S	70 - 130	X420017 - X4E0177-09	14-May-24	M3
EPA 200.7	Barium	mg/L	1.01	0.0214	1.00	99.1	70 - 130	X420017 - X4E0164-01	14-May-24	
EPA 200.7	Barium	mg/L	1.01	0.0158	1.00	99.0	70 - 130	X420017 - X4E0177-09	14-May-24	
EPA 200.7	Beryllium	mg/L	1.03	<0.00200	1.00	103	70 - 130	X420017 - X4E0164-01	14-May-24	
EPA 200.7	Beryllium	mg/L	1.02	0.00397	1.00	102	70 - 130	X420017 - X4E0177-09	14-May-24	
EPA 200.7	Boron	mg/L	1.06	0.0527	1.00	101	70 - 130	X420017 - X4E0164-01	14-May-24	
EPA 200.7	Boron	mg/L	1.04	<0.0400	1.00	102	70 - 130	X420017 - X4E0177-09	14-May-24	
EPA 200.7	Cadmium	mg/L	0.969	<0.0020	1.00	96.9	70 - 130	X420017 - X4E0164-01	14-May-24	
EPA 200.7	Cadmium	mg/L	1.01	0.0378	1.00	97.5	70 - 130	X420017 - X4E0177-09	14-May-24	
EPA 200.7	Calcium	mg/L	112	92.8	20.0	94.6	70 - 130	X420017 - X4E0164-01	14-May-24	
EPA 200.7	Calcium	mg/L	108	89.4	20.0	90.8	70 - 130	X420017 - X4E0177-09	14-May-24	
EPA 200.7	Chromium	mg/L	0.991	<0.0060	1.00	99.1	70 - 130	X420017 - X4E0164-01	14-May-24	
EPA 200.7	Chromium	mg/L	0.979	<0.0060	1.00	97.9	70 - 130	X420017 - X4E0177-09	14-May-24	
EPA 200.7	Cobalt	mg/L	0.936	<0.0060	1.00	93.6	70 - 130	X420017 - X4E0164-01	14-May-24	
EPA 200.7	Cobalt	mg/L	1.11	0.151	1.00	96.1	70 - 130	X420017 - X4E0177-09	14-May-24	
EPA 200.7	Copper	mg/L	0.981	<0.0100	1.00	97.4	70 - 130	X420017 - X4E0164-01	14-May-24	
EPA 200.7	Copper	mg/L	2.78	1.93	1.00	84.2	70 - 130	X420017 - X4E0177-09	14-May-24	
EPA 200.7	Iron	mg/L	10.1	<0.100	10.0	101	70 - 130	X420017 - X4E0164-01	14-May-24	
EPA 200.7	Iron	mg/L	10.3	0.183	10.0	101	70 - 130	X420017 - X4E0177-09	14-May-24	
EPA 200.7	Lead	mg/L	0.983	<0.0075	1.00	98.3	70 - 130	X420017 - X4E0164-01	14-May-24	
EPA 200.7	Lead	mg/L	0.993	<0.0075	1.00	99.3	70 - 130	X420017 - X4E0177-09	14-May-24	
EPA 200.7	Lithium	mg/L	0.962	<0.040	1.00	96.2	70 - 130	X420017 - X4E0164-01	14-May-24	
EPA 200.7	Lithium	mg/L	1.03	<0.040	1.00	103	70 - 130	X420017 - X4E0177-09	14-May-24	
EPA 200.7	Magnesium	mg/L	70.9	51.6	20.0	96.3	70 - 130	X420017 - X4E0164-01	14-May-24	
EPA 200.7	Magnesium	mg/L	64.4	45.2	20.0	96.2	70 - 130	X420017 - X4E0177-09	14-May-24	
EPA 200.7	Manganese	mg/L	1.10	0.122	1.00	98.1	70 - 130	X420017 - X4E0164-01	14-May-24	
EPA 200.7	Manganese	mg/L	9.66	8.99	1.00	0.30R>S	70 - 130	X420017 - X4E0177-09	14-May-24	M3
EPA 200.7	Molybdenum	mg/L	0.986	<0.0080	1.00	98.6	70 - 130	X420017 - X4E0164-01	14-May-24	
EPA 200.7	Molybdenum	mg/L	0.977	<0.0080	1.00	97.7	70 - 130	X420017 - X4E0177-09	14-May-24	
EPA 200.7	Nickel	mg/L	0.932	<0.0100	1.00	93.2	70 - 130	X420017 - X4E0164-01	14-May-24	

SVL holds the following certifications:

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

Work order Report Page 14 of 17

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0174**

Reported: 29-May-24 17:19

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	Nickel	mg/L	1.00	0.0466	1.00	95.6	70 - 130	X420017 - X4E0177-09	14-May-24	
EPA 200.7	Potassium	mg/L	24.9	4.53	20.0	102	70 - 130	X420017 - X4E0164-01	14-May-24	
EPA 200.7	Potassium	mg/L	26.1	5.48	20.0	103	70 - 130	X420017 - X4E0177-09	14-May-24	
EPA 200.7	Silver	mg/L	0.0481	<0.0050	0.0500	96.3	70 - 130	X420017 - X4E0164-01	14-May-24	
EPA 200.7	Silver	mg/L	0.0464	<0.0050	0.0500	92.8	70 - 130	X420017 - X4E0177-09	14-May-24	
EPA 200.7	Sodium	mg/L	48.2	29.6	19.0	98.1	70 - 130	X420017 - X4E0164-01	14-May-24	
EPA 200.7	Sodium	mg/L	39.7	20.7	19.0	100	70 - 130	X420017 - X4E0177-09	14-May-24	
EPA 200.7	Vanadium	mg/L	1.00	<0.0050	1.00	100	70 - 130	X420017 - X4E0164-01	14-May-24	
EPA 200.7	Vanadium	mg/L	0.998	<0.0050	1.00	99.8	70 - 130	X420017 - X4E0177-09	14-May-24	
EPA 200.7	Zinc	mg/L	0.993	0.0177	1.00	97.5	70 - 130	X420017 - X4E0164-01	14-May-24	
EPA 200.7	Zinc	mg/L	9.79	9.54	1.00	0.30R>S	70 - 130	X420017 - X4E0177-09	14-May-24	M3
EPA 200.8	Antimony	mg/L	0.0259	<0.00100	0.0250	104	70 - 130	X419226 - X4E0174-01	20-May-24	
EPA 200.8	Antimony	mg/L	<0.100	<0.100	0.0250	N/A	70 - 130	X419226 - X4E0125-01	20-May-24	D1,M4
EPA 200.8	Arsenic	mg/L	0.0259	<0.00100	0.0250	104	70 - 130	X419226 - X4E0174-01	20-May-24	
EPA 200.8	Arsenic	mg/L	<0.100	<0.100	0.0250	137	70 - 130	X419226 - X4E0125-01	20-May-24	D1,M4
EPA 200.8	Selenium	mg/L	0.0253	<0.00100	0.0250	101	70 - 130	X419226 - X4E0174-01	20-May-24	
EPA 200.8	Selenium	mg/L	<0.100	<0.100	0.0250	N/A	70 - 130	X419226 - X4E0125-01	20-May-24	D1,M4
EPA 200.8	Thallium	mg/L	0.0234	<0.000200	0.0250	93.6	70 - 130	X419226 - X4E0174-01	20-May-24	
EPA 200.8	Thallium	mg/L	0.0301	<0.0200	0.0250	120	70 - 130	X419226 - X4E0125-01	20-May-24	D1
EPA 200.8	Uranium	mg/L	0.0264	0.00194	0.0250	97.9	70 - 130	X419226 - X4E0174-01	20-May-24	
EPA 200.8	Uranium	mg/L	0.693	0.663	0.0250	120	70 - 130	X419226 - X4E0125-01	20-May-24	D1

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00209	<0.000200	0.00200	105	70 - 130	X420170 - X4E0174-01	24-May-24	
EPA 245.1	Mercury	mg/L	0.00208	<0.000200	0.00200	104	70 - 130	X420170 - X4E0205-02	24-May-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.105	<0.0050	0.100	105	79 - 121	X421015 - X4E0273-01	28-May-24	
EPA 335.4	Cyanide (total)	mg/L	0.0937	<0.0050	0.100	93.7	90 - 110	X420008 - X4E0098-01	14-May-24	
EPA 335.4	Cyanide (total)	mg/L	0.0958	<0.0050	0.100	95.8	90 - 110	X420008 - X4E0098-02	14-May-24	
EPA 350.1	Ammonia as N	mg/L	1.06	<0.030	1.00	106	90 - 110	X420027 - X4E0174-02	15-May-24	
EPA 350.1	Ammonia as N	mg/L	1.05	<0.030	1.00	103	90 - 110	X420027 - X4E0174-03	15-May-24	
OIA 1677	Cyanide (WAD)	mg/L	0.104	<0.0050	0.100	104	82 - 118	X420067 - X4E0174-01	15-May-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	27.6	25.3	3.00	0.30R>S	90 - 110	X419200 - X4E0174-01	10-May-24	D2,M4
EPA 300.0	Fluoride	mg/L	4.37	2.29	2.00	104	90 - 110	X419200 - X4E0174-01	10-May-24	
EPA 300.0	Nitrate as N	mg/L	4.11	2.01	2.00	105	90 - 110	X419200 - X4E0174-01	10-May-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	6.14	2.01	4.00	103	90 - 110	X419200 - X4E0174-01	10-May-24	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X419200 - X4E0174-01	10-May-24	
EPA 300.0	Sulfate as SO4	mg/L	126	119	10.0	0.30R>S	90 - 110	X419200 - X4E0174-01	10-May-24	D2,M4

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	61.1	61.1	20.0	0.1	20	96	X420005 - X4E0174-01	
EPA 200.7	Magnesium	mg/L	26.4	26.1	20.0	1.1	20	99.0	X420005 - X4E0174-01	
EPA 200.7	Potassium	mg/L	20.7	20.7	20.0	0.0	20	96.3	X420005 - X4E0174-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	1.01	1.00	0.1	20	101	X420017 - X4E0164-01	

SVL holds the following certifications:

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

Work order Report Page 15 of 17

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0174**

Reported: 29-May-24 17:19

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	Barium	mg/L	0.985	1.01	1.00	2.8	20	96.4	X420017 - X4E0164-01	
EPA 200.7	Beryllium	mg/L	1.04	1.03	1.00	1.0	20	104	X420017 - X4E0164-01	
EPA 200.7	Boron	mg/L	1.06	1.06	1.00	0.2	20	101	X420017 - X4E0164-01	
EPA 200.7	Cadmium	mg/L	0.972	0.969	1.00	0.4	20	97.2	X420017 - X4E0164-01	
EPA 200.7	Calcium	mg/L	112	112	20.0	0.2	20	93.7	X420017 - X4E0164-01	
EPA 200.7	Chromium	mg/L	0.994	0.991	1.00	0.3	20	99.4	X420017 - X4E0164-01	
EPA 200.7	Cobalt	mg/L	0.945	0.936	1.00	0.9	20	94.5	X420017 - X4E0164-01	
EPA 200.7	Copper	mg/L	0.982	0.981	1.00	0.1	20	97.5	X420017 - X4E0164-01	
EPA 200.7	Iron	mg/L	10.1	10.1	10.0	0.3	20	101	X420017 - X4E0164-01	
EPA 200.7	Lead	mg/L	0.970	0.983	1.00	1.4	20	97.0	X420017 - X4E0164-01	
EPA 200.7	Lithium	mg/L	0.954	0.962	1.00	0.8	20	95.4	X420017 - X4E0164-01	
EPA 200.7	Magnesium	mg/L	69.8	70.9	20.0	1.5	20	91.2	X420017 - X4E0164-01	
EPA 200.7	Manganese	mg/L	1.10	1.10	1.00	0.3	20	97.8	X420017 - X4E0164-01	
EPA 200.7	Molybdenum	mg/L	1.00	0.986	1.00	1.6	20	100	X420017 - X4E0164-01	
EPA 200.7	Nickel	mg/L	0.944	0.932	1.00	1.2	20	94.4	X420017 - X4E0164-01	
EPA 200.7	Potassium	mg/L	24.6	24.9	20.0	1.3	20	100	X420017 - X4E0164-01	
EPA 200.7	Silver	mg/L	0.0487	0.0481	0.0500	1.2	20	97.5	X420017 - X4E0164-01	
EPA 200.7	Sodium	mg/L	48.1	48.2	19.0	0.2	20	97.5	X420017 - X4E0164-01	
EPA 200.7	Vanadium	mg/L	1.00	1.00	1.00	0.4	20	100	X420017 - X4E0164-01	
EPA 200.7	Zinc	mg/L	1.01	0.993	1.00	1.3	20	98.8	X420017 - X4E0164-01	
EPA 200.8	Antimony	mg/L	<0.100	<0.100	0.0250	N/A	20	N/A	X419226 - X4E0125-01	D1,M4
EPA 200.8	Arsenic	mg/L	<0.100	<0.100	0.0250	10.9	20	123	X419226 - X4E0125-01	D1
EPA 200.8	Selenium	mg/L	<0.100	<0.100	0.0250	N/A	20	N/A	X419226 - X4E0125-01	D1,M4
EPA 200.8	Thallium	mg/L	0.0307	0.0301	0.0250	2.1	20	123	X419226 - X4E0125-01	D1
EPA 200.8	Uranium	mg/L	0.650	0.693	0.0250	6.4	20	0.30R>S	X419226 - X4E0125-01	D1,M4

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00208	0.00209	0.00200	0.6	20	104	X420170 - X4E0174-01	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.100	0.105	0.100	4.9	11	100	X421015 - X4E0273-01	
EPA 335.4	Cyanide (total)	mg/L	0.0943	0.0937	0.100	0.6	20	94.3	X420008 - X4E0098-01	
EPA 350.1	Ammonia as N	mg/L	1.01	1.06	1.00	4.7	20	101	X420027 - X4E0174-02	
OIA 1677	Cyanide (WAD)	mg/L	0.115	0.104	0.100	10.0	11	115	X420067 - X4E0174-01	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	27.8	27.6	3.00	0.7	20	0.30R>S	X419200 - X4E0174-01	D2,M4
EPA 300.0	Fluoride	mg/L	4.38	4.37	2.00	0.3	20	104	X419200 - X4E0174-01	
EPA 300.0	Nitrate as N	mg/L	4.14	4.11	2.00	0.7	20	106	X419200 - X4E0174-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	6.21	6.14	4.00	1.0	20	105	X419200 - X4E0174-01	
EPA 300.0	Nitrite as N	mg/L	2.07	2.04	2.00	1.6	20	103	X419200 - X4E0174-01	
EPA 300.0	Sulfate as SO4	mg/L	127	126	10.0	0.5	20	0.30R>S	X419200 - X4E0174-01	D2,M4



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0174**

Reported: 29-May-24 17:19

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
E11	Sample exceeds method-specified limit for solids content.
H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
Q5C	After two pH adjustments, the method-specified pH was not achieved.
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

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

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

Sampled: 05-Jun-24 10:19

SVL Sample ID: **X4F0080-02 (Ground Water)**

Received: 06-Jun-24

Sampled By: PB

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	29.2	mg/L	0.100	0.069		X424236	NMS	06/17/24 16:03	
EPA 200.7	Magnesium	7.02	mg/L	0.500	0.090		X424236	NMS	06/17/24 16:03	
EPA 200.7	Potassium	1.12	mg/L	0.50	0.18		X424236	NMS	06/17/24 16:03	
SM 2340 B	Hardness (as CaCO3)	100	mg/L	2.31	0.543		N/A		06/17/24 16:03	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X424032	NMS	06/10/24 14:04	
EPA 200.7	Barium	0.190	mg/L	0.0020	0.0019		X424032	NMS	06/10/24 14:04	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X424032	NMS	06/10/24 14:04	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X424032	NMS	06/10/24 14:04	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X424032	NMS	06/10/24 14:04	
EPA 200.7	Calcium	28.8	mg/L	0.100	0.069		X424032	NMS	06/10/24 14:04	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X424032	NMS	06/10/24 14:04	
EPA 200.7	Cobalt	0.0067	mg/L	0.0060	0.0046		X424032	NMS	06/10/24 14:04	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X424032	NMS	06/10/24 14:04	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X424032	NMS	06/10/24 14:04	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X424032	NMS	06/10/24 14:04	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X424032	NMS	06/10/24 14:04	
EPA 200.7	Magnesium	6.86	mg/L	0.500	0.090		X424032	NMS	06/10/24 14:04	
EPA 200.7	Manganese	0.0158	mg/L	0.0080	0.0034		X424032	NMS	06/10/24 14:04	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X424032	NMS	06/10/24 14:04	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X424032	NMS	06/10/24 14:04	
EPA 200.7	Potassium	0.97	mg/L	0.50	0.18		X424032	NMS	06/10/24 14:04	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X424032	NMS	06/10/24 14:04	
EPA 200.7	Sodium	30.3	mg/L	0.50	0.12		X424032	NMS	06/10/24 14:04	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X424032	NMS	06/10/24 14:04	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X424032	NMS	06/10/24 14:04	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X424005	SMU	06/17/24 11:13	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X424005	SMU	06/17/24 11:13	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X424005	SMU	06/17/24 11:13	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X424005	SMU	06/17/24 11:13	
EPA 200.8	Uranium	0.00335	mg/L	0.000100	0.000052		X424005	SMU	06/17/24 11:13	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X424068	MAC	06/12/24 14:30	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X424161	DD	06/12/24 13:25	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X424183	JPM	06/14/24 10:20	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X424020	JPM	06/11/24 10:45	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X424024	DD	06/11/24 10:05	
SM 2310 B	Acidity to pH 8.3	-151	mg/L as CaCO3	10.0			X424206	MWD	06/14/24 07:46	
SM 2320 B	Total Alkalinity	157	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:02	
SM 2320 B	Bicarbonate	157	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:02	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:02	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:02	
SM 2540 C	Total Diss. Solids	170	mg/L	10			X423278	TJL	06/11/24 15:10	R2B
SM 2540 D	Total Susp. Solids	11.0	mg/L	5.0			X423280	TJL	06/12/24 15:30	R2B
SM 4500 H B	pH @22.4°C	8.0	pH Units				X424012	MWD	06/10/24 17:02	H5

SVL holds the following certifications:

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

Work order Report Page 4 of 28



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

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

Sampled: 05-Jun-24 10:19

SVL Sample ID: **X4F0080-02 (Ground Water)**

Received: 06-Jun-24

Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	1.18	mg/L	0.20	0.02		X423218	RS	06/06/24 15:39	
EPA 300.0	Fluoride	1.89	mg/L	0.100	0.017		X423218	RS	06/06/24 15:39	
EPA 300.0	Nitrate as N	0.056	mg/L	0.050	0.013		X423218	RS	06/06/24 15:39	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X423218	RS	06/06/24 15:39	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X423218	RS	06/06/24 15:39	
EPA 300.0	Sulfate as SO4	12.4	mg/L	0.30	0.18		X423218	RS	06/06/24 15:39	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.36 meq/L

Anion Sum: 3.53 meq/L

C/A Balance: -2.47 %

Calculated TDS: 177

TDS/cTDS: 0.96

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

Tawnya M. Hall
Project Manager Assistant



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net

Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

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

Sampled: 05-Jun-24 11:20

Received: 06-Jun-24

Sampled By: PB

SVL Sample ID: **X4F0080-03 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes

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

EPA 200.7	Calcium	10.4	mg/L	0.100	0.069		X424236	NMS	06/17/24 16:07	
EPA 200.7	Magnesium	2.31	mg/L	0.500	0.090		X424236	NMS	06/17/24 16:07	
EPA 200.7	Potassium	0.90	mg/L	0.50	0.18		X424236	NMS	06/17/24 16:07	
SM 2340 B	Hardness (as CaCO3)	35.6	mg/L	2.31	0.543		N/A		06/10/24 14:20	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X424032	NMS	06/10/24 14:20	
EPA 200.7	Barium	0.104	mg/L	0.0020	0.0019		X424032	NMS	06/10/24 14:20	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X424032	NMS	06/10/24 14:20	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X424032	NMS	06/10/24 14:20	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X424032	NMS	06/10/24 14:20	
EPA 200.7	Calcium	10.5	mg/L	0.100	0.069		X424032	NMS	06/10/24 14:20	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X424032	NMS	06/10/24 14:20	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X424032	NMS	06/10/24 14:20	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X424032	NMS	06/10/24 14:20	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X424032	NMS	06/10/24 14:20	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X424032	NMS	06/10/24 14:20	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X424032	NMS	06/10/24 14:20	
EPA 200.7	Magnesium	2.38	mg/L	0.500	0.090		X424032	NMS	06/10/24 14:20	
EPA 200.7	Manganese	0.0088	mg/L	0.0080	0.0034		X424032	NMS	06/10/24 14:20	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X424032	NMS	06/10/24 14:20	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X424032	NMS	06/10/24 14:20	
EPA 200.7	Potassium	0.80	mg/L	0.50	0.18		X424032	NMS	06/10/24 14:20	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X424032	NMS	06/10/24 14:20	
EPA 200.7	Sodium	9.74	mg/L	0.50	0.12		X424032	NMS	06/10/24 14:20	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X424032	NMS	06/10/24 14:20	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X424032	NMS	06/10/24 14:20	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X424005	SMU	06/17/24 11:16	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X424005	SMU	06/17/24 11:16	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X424005	SMU	06/17/24 11:16	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X424005	SMU	06/17/24 11:16	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X424005	SMU	06/17/24 11:16	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X424068	MAC	06/12/24 14:37	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X424161	DD	06/12/24 13:26	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X424183	JPM	06/14/24 10:23	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X424020	JPM	06/11/24 10:48	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X424024	DD	06/11/24 10:06	
SM 2310 B	Acidity to pH 8.3	-35.8	mg/L as CaCO3	10.0			X424206	MWD	06/14/24 07:46	
SM 2320 B	Total Alkalinity	37.1	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:08	
SM 2320 B	Bicarbonate	37.1	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:08	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:08	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:08	
SM 2540 C	Total Diss. Solids	90	mg/L	10			X423278	TJL	06/11/24 15:10	
SM 2540 D	Total Susp. Solids	6.0	mg/L	5.0			X423280	TJL	06/12/24 15:30	
SM 4500 H B	pH @22.4°C	6.7	pH Units				X424012	MWD	06/10/24 17:08	H5

SVL holds the following certifications:

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

Work order Report Page 6 of 28



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

Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4F0080 Reported: 20-Jun-24 10:09

Client Sample ID: **GVMW-26B**
SVL Sample ID: **X4F0080-03 (Ground Water)**

Sampled: 05-Jun-24 11:20
Received: 06-Jun-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	1.79	mg/L	0.20	0.02		X423218	RS	06/06/24 16:16	
EPA 300.0	Fluoride	0.215	mg/L	0.100	0.017		X423218	RS	06/06/24 16:16	
EPA 300.0	Nitrate as N	0.663	mg/L	0.050	0.013		X423218	RS	06/06/24 16:16	
EPA 300.0	Nitrate+Nitrite as N	0.663	mg/L	0.100	0.044		X423218	RS	06/06/24 16:16	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X423218	RS	06/06/24 16:16	
EPA 300.0	Sulfate as SO4	21.4	mg/L	0.30	0.18		X423218	RS	06/06/24 16:16	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1.17 meq/L	Anion Sum: 1.30 meq/L	C/A Balance: -5.20 %	Calculated TDS: 72	TDS/cTDS: 1.25

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



Tawnya M. Hall
Project Manager Assistant

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

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

Sampled: 05-Jun-24 12:35

Received: 06-Jun-24

Sampled By: PB

SVL Sample ID: **X4F0080-05 (Ground Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	29.7	mg/L	0.100	0.069		X424236	NMS	06/17/24 16:15	
EPA 200.7	Magnesium	12.5	mg/L	0.500	0.090		X424236	NMS	06/17/24 16:15	
EPA 200.7	Potassium	1.55	mg/L	0.50	0.18		X424236	NMS	06/17/24 16:15	
SM 2340 B	Hardness (as CaCO3)	123	mg/L	2.31	0.543		N/A		06/17/24 16:15	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X424032	NMS	06/10/24 14:28	
EPA 200.7	Barium	0.101	mg/L	0.0020	0.0019		X424032	NMS	06/10/24 14:28	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X424032	NMS	06/10/24 14:28	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X424032	NMS	06/10/24 14:28	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X424032	NMS	06/10/24 14:28	
EPA 200.7	Calcium	29.2	mg/L	0.100	0.069		X424032	NMS	06/10/24 14:28	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X424032	NMS	06/10/24 14:28	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X424032	NMS	06/10/24 14:28	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X424032	NMS	06/10/24 14:28	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X424032	NMS	06/10/24 14:28	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X424032	NMS	06/10/24 14:28	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X424032	NMS	06/10/24 14:28	
EPA 200.7	Magnesium	12.2	mg/L	0.500	0.090		X424032	NMS	06/10/24 14:28	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X424032	NMS	06/10/24 14:28	
EPA 200.7	Molybdenum	0.0094	mg/L	0.0080	0.0034		X424032	NMS	06/10/24 14:28	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X424032	NMS	06/10/24 14:28	
EPA 200.7	Potassium	1.38	mg/L	0.50	0.18		X424032	NMS	06/10/24 14:28	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X424032	NMS	06/10/24 14:28	
EPA 200.7	Sodium	37.0	mg/L	0.50	0.12		X424032	NMS	06/10/24 14:28	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X424032	NMS	06/10/24 14:28	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X424032	NMS	06/10/24 14:28	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X424005	SMU	06/17/24 11:21	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X424005	SMU	06/17/24 11:21	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X424005	SMU	06/17/24 11:21	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X424005	SMU	06/17/24 11:21	
EPA 200.8	Uranium	0.00369	mg/L	0.000100	0.000052		X424005	SMU	06/17/24 11:21	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X424068	MAC	06/12/24 14:41	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X424161	DD	06/12/24 13:34	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X424183	JPM	06/14/24 10:28	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X424020	JPM	06/11/24 10:52	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X424024	DD	06/11/24 10:14	
SM 2310 B	Acidity to pH 8.3	-165	mg/L as CaCO3	10.0			X424206	MWD	06/14/24 07:46	
SM 2320 B	Total Alkalinity	168	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:32	
SM 2320 B	Bicarbonate	168	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:32	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:32	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:32	
SM 2540 C	Total Diss. Solids	198	mg/L	10			X423278	TJL	06/11/24 15:10	
SM 2540 D	Total Susp. Solids	8.0	mg/L	5.0			X423280	TJL	06/12/24 15:30	
SM 4500 H B	pH @22.5°C	7.9	pH Units				X424012	MWD	06/10/24 17:32	H5

SVL holds the following certifications:

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

Work order Report Page 10 of 28



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

Newmont - Cripple Creek & Victor	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4F0080
Victor, CO 80860	Reported: 20-Jun-24 10:09

Client Sample ID: GVMW-22A
SVL Sample ID: X4F0080-05 (Ground Water)

Sample Report Page 2 of 2

Sampled: 05-Jun-24 12:35
Received: 06-Jun-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	4.12	mg/L	0.20	0.02		X423218	RS	06/06/24 18:25	
EPA 300.0	Fluoride	2.28	mg/L	0.100	0.017		X423218	RS	06/06/24 18:25	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X423218	RS	06/06/24 18:25	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X423218	RS	06/06/24 18:25	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X423218	RS	06/06/24 18:25	
EPA 300.0	Sulfate as SO4	34.6	mg/L	0.30	0.18		X423218	RS	06/06/24 18:25	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.12 meq/L	Anion Sum: 4.32 meq/L	C/A Balance: -2.33 %	Calculated TDS: 222	TDS/cTDS: 0.89

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

Tawnya M. Hall
Project Manager Assistant



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

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

Sampled: 05-Jun-24 13:32

SVL Sample ID: **X4F0080-06 (Ground Water)**

Received: 06-Jun-24

Sampled By: PB

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	22.8	mg/L	0.100	0.069		X424236	NMS	06/17/24 16:36	
EPA 200.7	Magnesium	5.90	mg/L	0.500	0.090		X424236	NMS	06/17/24 16:36	
EPA 200.7	Potassium	1.10	mg/L	0.50	0.18		X424236	NMS	06/17/24 16:36	
SM 2340 B	Hardness (as CaCO3)	82.6	mg/L	2.31	0.543		N/A		06/17/24 16:36	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X424032	NMS	06/10/24 14:32	
EPA 200.7	Barium	0.0521	mg/L	0.0020	0.0019		X424032	NMS	06/10/24 14:32	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X424032	NMS	06/10/24 14:32	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X424032	NMS	06/10/24 14:32	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X424032	NMS	06/10/24 14:32	
EPA 200.7	Calcium	23.1	mg/L	0.100	0.069		X424032	NMS	06/10/24 14:32	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X424032	NMS	06/10/24 14:32	
EPA 200.7	Cobalt	0.0064	mg/L	0.0060	0.0046		X424032	NMS	06/10/24 14:32	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X424032	NMS	06/10/24 14:32	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X424032	NMS	06/10/24 14:32	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X424032	NMS	06/10/24 14:32	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X424032	NMS	06/10/24 14:32	
EPA 200.7	Magnesium	6.06	mg/L	0.500	0.090		X424032	NMS	06/10/24 14:32	
EPA 200.7	Manganese	0.0095	mg/L	0.0080	0.0034		X424032	NMS	06/10/24 14:32	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X424032	NMS	06/10/24 14:32	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X424032	NMS	06/10/24 14:32	
EPA 200.7	Potassium	1.12	mg/L	0.50	0.18		X424032	NMS	06/10/24 14:32	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X424032	NMS	06/10/24 14:32	
EPA 200.7	Sodium	13.0	mg/L	0.50	0.12		X424032	NMS	06/10/24 14:32	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X424032	NMS	06/10/24 14:32	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X424032	NMS	06/10/24 14:32	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X424005	SMU	06/17/24 11:23	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X424005	SMU	06/17/24 11:23	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X424005	SMU	06/17/24 11:23	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X424005	SMU	06/17/24 11:23	
EPA 200.8	Uranium	0.000300	mg/L	0.000100	0.000052		X424005	SMU	06/17/24 11:23	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X424068	MAC	06/12/24 14:43	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X424161	DD	06/12/24 13:35	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X424183	JPM	06/14/24 10:31	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X424020	JPM	06/11/24 10:54	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X424024	DD	06/11/24 10:15	
SM 2310 B	Acidity to pH 8.3	-50.2	mg/L as CaCO3	10.0			X424206	MWD	06/14/24 07:46	
SM 2320 B	Total Alkalinity	57.2	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:39	
SM 2320 B	Bicarbonate	57.2	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:39	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:39	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:39	
SM 2540 C	Total Diss. Solids	133	mg/L	10			X423278	TJL	06/11/24 15:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X423280	TJL	06/12/24 15:30	
SM 4500 H B	pH @22.5°C	7.0	pH Units				X424012	MWD	06/10/24 17:39	H5

SVL holds the following certifications:

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

Work order Report Page 12 of 28



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

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

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: X4F0080
Reported: 20-Jun-24 10:09

Client Sample ID: GVMW-22B
SVL Sample ID: X4F0080-06 (Ground Water)

Sampled: 05-Jun-24 13:32
Received: 06-Jun-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	11.9	mg/L	0.20	0.02		X423218	RS	06/06/24 19:02	
EPA 300.0	Fluoride	0.376	mg/L	0.100	0.017		X423218	RS	06/06/24 19:02	
EPA 300.0	Nitrate as N	0.808	mg/L	0.050	0.013		X423218	RS	06/06/24 19:02	
EPA 300.0	Nitrate+Nitrite as N	0.808	mg/L	0.100	0.044		X423218	RS	06/06/24 19:02	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X423218	RS	06/06/24 19:02	
EPA 300.0	Sulfate as SO4	39.9	mg/L	0.30	0.18		X423218	RS	06/06/24 19:02	

Cation/Anion Balance and TDS Ratios

Cation Sum: 2.23 meq/L Anion Sum: 2.39 meq/L C/A Balance: -3.38 % Calculated TDS: 133 TDS/cTDS: 1.00

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

 Tawnya M. Hall
Project Manager Assistant



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net

Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

Client Sample ID: **GVMW-25**

Sampled: 05-Jun-24 14:25

Received: 06-Jun-24

Sampled By: PB

SVL Sample ID: **X4F0080-07 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes

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

EPA 200.7	Calcium	439	mg/L	2.00	1.38	20	X424236	NMS	06/17/24 16:59	D2
EPA 200.7	Magnesium	192	mg/L	0.500	0.090		X424236	NMS	06/17/24 16:40	
EPA 200.7	Potassium	6.09	mg/L	0.50	0.18		X424236	NMS	06/17/24 16:40	
SM 2340 B	Hardness (as CaCO3)	1980	mg/L	2.31	0.543		N/A		06/17/24 16:40	

Metals (Dissolved)

EPA 200.7	Aluminum	216	mg/L	0.080	0.054		X424032	NMS	06/10/24 14:35	M3
EPA 200.7	Barium	0.0106	mg/L	0.0020	0.0019		X424032	NMS	06/10/24 14:35	
EPA 200.7	Beryllium	0.218	mg/L	0.00200	0.00080		X424032	NMS	06/10/24 14:35	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X424032	NMS	06/10/24 14:35	
EPA 200.7	Cadmium	0.517	mg/L	0.0020	0.0016		X424032	NMS	06/10/24 14:35	
EPA 200.7	Calcium	478	mg/L	0.100	0.069		X424032	NMS	06/10/24 14:35	M3
EPA 200.7	Chromium	0.0160	mg/L	0.0060	0.0020		X424032	NMS	06/10/24 14:35	
EPA 200.7	Cobalt	0.489	mg/L	0.0060	0.0046		X424032	NMS	06/10/24 14:35	
EPA 200.7	Copper	0.715	mg/L	0.0100	0.0027		X424032	NMS	06/10/24 14:35	
EPA 200.7	Iron	0.293	mg/L	0.100	0.056		X424032	NMS	06/10/24 14:35	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X424032	NMS	06/10/24 14:35	
EPA 200.7	Lithium	0.111	mg/L	0.040	0.025		X424032	NMS	06/10/24 14:35	
EPA 200.7	Magnesium	192	mg/L	0.500	0.090		X424032	NMS	06/10/24 14:35	
EPA 200.7	Manganese	74.5	mg/L	0.0080	0.0034		X424032	NMS	06/10/24 14:35	M3
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X424032	NMS	06/10/24 14:35	
EPA 200.7	Nickel	0.893	mg/L	0.0100	0.0048		X424032	NMS	06/10/24 14:35	
EPA 200.7	Potassium	5.38	mg/L	0.50	0.18		X424032	NMS	06/10/24 14:35	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X424032	NMS	06/10/24 14:35	
EPA 200.7	Sodium	36.6	mg/L	0.50	0.12		X424032	NMS	06/10/24 14:35	
EPA 200.7	Vanadium	0.0057	mg/L	0.0050	0.0019		X424032	NMS	06/10/24 14:35	
EPA 200.7	Zinc	19.1	mg/L	0.0100	0.0054		X424032	NMS	06/10/24 14:35	M3
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X424005	SMU	06/18/24 08:19	
EPA 200.8	Arsenic	0.0831	mg/L	0.00100	0.00021		X424005	SMU	06/18/24 08:19	
EPA 200.8	Selenium	0.00830	mg/L	0.00100	0.00024		X424005	SMU	06/18/24 08:19	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.000400	5	X424005	SMU	06/18/24 08:22	D1
EPA 200.8	Uranium	0.678	mg/L	0.000500	0.000260	5	X424005	SMU	06/18/24 08:22	D1

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X424068	MAC	06/12/24 14:45	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X424161	DD	06/12/24 13:37	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X424183	JPM	06/14/24 10:33	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X424020	JPM	06/11/24 10:56	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X424024	DD	06/11/24 10:17	
SM 2310 B	Acidity to pH 8.3	1640	mg/L as CaCO3	10.0			X424206	MWD	06/14/24 07:46	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:45	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:45	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:45	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:45	
SM 2540 C	Total Diss. Solids	4100	mg/L	40			X423278	TJL	06/11/24 15:10	D2
SM 2540 D	Total Susp. Solids	16.0	mg/L	5.0			X423280	TJL	06/12/24 15:30	
SM 4500 H B	pH @22.6°C	3.8	pH Units				X424012	MWD	06/10/24 17:45	H5

SVL holds the following certifications:

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

Work order Report Page 14 of 28



One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
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Newmont - Cripple Creek & Victor	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4F0080
Victor, CO 80860	Reported: 20-Jun-24 10:09

Client Sample ID: GVMW-25
SVL Sample ID: X4F0080-07 (Ground Water)

Sampled: 05-Jun-24 14:25
Received: 06-Jun-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	26.8	mg/L	10.0	1.10	50	X423218	RS	06/06/24 19:57	D2
EPA 300.0	Fluoride	6.88	mg/L	0.100	0.017		X423218	RS	06/06/24 19:39	
EPA 300.0	Nitrate as N	3.14	mg/L	0.050	0.013		X423218	RS	06/06/24 19:39	
EPA 300.0	Nitrate+Nitrite as N	3.14	mg/L	0.100	0.044		X423218	RS	06/06/24 19:39	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X423218	RS	06/06/24 19:39	
EPA 300.0	Sulfate as SO4	3360	mg/L	30.0	18.0	100	X423218	RS	06/07/24 14:29	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 72.2 meq/L	Anion Sum: 71.3 meq/L	C/A Balance: 0.64 %	Calculated TDS: 4100	TDS/cTDS: 1.00

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

Tawnya M. Hall
Project Manager Assistant



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Kellogg, ID 83837-0929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

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	X424236	17-Jun-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X424236	17-Jun-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X424236	17-Jun-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X424032	10-Jun-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X424032	10-Jun-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X424032	10-Jun-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X424032	10-Jun-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X424032	10-Jun-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X424032	10-Jun-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X424032	10-Jun-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X424032	10-Jun-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X424032	10-Jun-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X424032	10-Jun-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X424032	10-Jun-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X424032	10-Jun-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X424032	10-Jun-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X424032	10-Jun-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X424032	10-Jun-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X424032	10-Jun-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X424032	10-Jun-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X424032	10-Jun-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X424032	10-Jun-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X424032	10-Jun-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X424032	10-Jun-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X424005	17-Jun-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X424005	17-Jun-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X424005	17-Jun-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X424005	17-Jun-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X424005	17-Jun-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X424161	12-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X424183	14-Jun-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X424020	11-Jun-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X424024	11-Jun-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X424206	14-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X424012	10-Jun-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X424012	10-Jun-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X424012	10-Jun-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X424012	10-Jun-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X423278	11-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X423280	12-Jun-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X423218	07-Jun-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X423218	07-Jun-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X423218	07-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X423218	07-Jun-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X423218	07-Jun-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X423218	07-Jun-24	



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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes

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

EPA 200.7	Calcium	mg/L	19.8	20.0	99	85 - 115	X424236	17-Jun-24	
EPA 200.7	Magnesium	mg/L	20.4	20.0	102	85 - 115	X424236	17-Jun-24	
EPA 200.7	Potassium	mg/L	20.5	20.0	103	85 - 115	X424236	17-Jun-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.942	1.00	94.2	85 - 115	X424032	10-Jun-24	
EPA 200.7	Barium	mg/L	0.951	1.00	95.1	85 - 115	X424032	10-Jun-24	
EPA 200.7	Beryllium	mg/L	0.960	1.00	96.0	85 - 115	X424032	10-Jun-24	
EPA 200.7	Boron	mg/L	0.947	1.00	94.7	85 - 115	X424032	10-Jun-24	
EPA 200.7	Cadmium	mg/L	0.945	1.00	94.5	85 - 115	X424032	10-Jun-24	
EPA 200.7	Calcium	mg/L	19.2	20.0	95.8	85 - 115	X424032	10-Jun-24	
EPA 200.7	Chromium	mg/L	0.948	1.00	94.8	85 - 115	X424032	10-Jun-24	
EPA 200.7	Cobalt	mg/L	0.927	1.00	92.7	85 - 115	X424032	10-Jun-24	
EPA 200.7	Copper	mg/L	0.928	1.00	92.8	85 - 115	X424032	10-Jun-24	
EPA 200.7	Iron	mg/L	9.61	10.0	96.1	85 - 115	X424032	10-Jun-24	
EPA 200.7	Lead	mg/L	0.940	1.00	94.0	85 - 115	X424032	10-Jun-24	
EPA 200.7	Lithium	mg/L	0.915	1.00	91.5	85 - 115	X424032	10-Jun-24	
EPA 200.7	Magnesium	mg/L	19.9	20.0	99.3	85 - 115	X424032	10-Jun-24	
EPA 200.7	Manganese	mg/L	0.945	1.00	94.5	85 - 115	X424032	10-Jun-24	
EPA 200.7	Molybdenum	mg/L	0.950	1.00	95.0	85 - 115	X424032	10-Jun-24	
EPA 200.7	Nickel	mg/L	0.925	1.00	92.5	85 - 115	X424032	10-Jun-24	
EPA 200.7	Potassium	mg/L	19.0	20.0	94.9	85 - 115	X424032	10-Jun-24	
EPA 200.7	Silver	mg/L	0.0481	0.0500	96.1	85 - 115	X424032	10-Jun-24	
EPA 200.7	Sodium	mg/L	18.4	19.0	96.9	85 - 115	X424032	10-Jun-24	
EPA 200.7	Vanadium	mg/L	0.955	1.00	95.5	85 - 115	X424032	10-Jun-24	
EPA 200.7	Zinc	mg/L	0.948	1.00	94.8	85 - 115	X424032	10-Jun-24	
EPA 200.8	Antimony	mg/L	0.0259	0.0250	104	85 - 115	X424005	17-Jun-24	
EPA 200.8	Arsenic	mg/L	0.0273	0.0250	109	85 - 115	X424005	17-Jun-24	
EPA 200.8	Selenium	mg/L	0.0270	0.0250	108	85 - 115	X424005	17-Jun-24	
EPA 200.8	Thallium	mg/L	0.0266	0.0250	106	85 - 115	X424005	17-Jun-24	
EPA 200.8	Uranium	mg/L	0.0266	0.0250	106	85 - 115	X424005	17-Jun-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00209	0.00200	105	85 - 115	X424068	12-Jun-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	0.100	98.0	90 - 110	X424161	12-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.0986	0.100	98.6	90 - 110	X424183	14-Jun-24	
EPA 350.1	Ammonia as N	mg/L	0.964	1.00	96.4	90 - 110	X424020	11-Jun-24	
OIA 1677	Cyanide (WAD)	mg/L	0.104	0.100	104	90 - 110	X424024	11-Jun-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	886	884	100	95.4 - 104	X424206	14-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.80	9.93	98.7	96.4 - 105	X424012	10-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	102	99.3	102	96.4 - 105	X424012	10-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X423280	12-Jun-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.06	3.00	102	90 - 110	X423218	07-Jun-24	
EPA 300.0	Fluoride	mg/L	2.05	2.00	102	90 - 110	X423218	07-Jun-24	
EPA 300.0	Nitrate as N	mg/L	2.06	2.00	103	90 - 110	X423218	07-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.62	4.50	103	90 - 110	X423218	07-Jun-24	
EPA 300.0	Nitrite as N	mg/L	2.56	2.50	102	90 - 110	X423218	07-Jun-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X423218	07-Jun-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: **X4F0080**

Reported: 20-Jun-24 10:09

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	<10.0	<10.0	UDL	20	X424206 - X4F0080-01	14-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	157	157	0.1	20	X424012 - X4F0080-02	10-Jun-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	157	157	0.1	20	X424012 - X4F0080-02	10-Jun-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X424012 - X4F0080-02	10-Jun-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X424012 - X4F0080-02	10-Jun-24	
SM 2540 C	Total Diss. Solids	mg/L	192	170	12.2	10	X423278 - X4F0080-02	11-Jun-24	R2B
SM 2540 C	Total Diss. Solids	mg/L	315	423	29.3	10	X423278 - X4F0095-01	11-Jun-24	R2B
SM 2540 D	Total Susp. Solids	mg/L	13.0	11.0	16.7	10	X423280 - X4F0080-02	12-Jun-24	R2B
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X423280 - X4F0095-01	12-Jun-24	
SM 4500 H B	pH @22.4°C	pH Units	8.0	8.0	0.4	20	X424012 - X4F0080-02	10-Jun-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	20.0	0.183	20.0	99	70 - 130	X424236 - X4F0080-01	17-Jun-24	
EPA 200.7	Calcium	mg/L	65.1	49.1	20.0	80	70 - 130	X424236 - X4F0103-01	17-Jun-24	
EPA 200.7	Magnesium	mg/L	20.3	<0.500	20.0	101	70 - 130	X424236 - X4F0080-01	17-Jun-24	
EPA 200.7	Magnesium	mg/L	24.8	5.08	20.0	98.4	70 - 130	X424236 - X4F0103-01	17-Jun-24	
EPA 200.7	Potassium	mg/L	77.6	52.7	20.0	125	70 - 130	X424236 - X4F0080-01	17-Jun-24	
EPA 200.7	Potassium	mg/L	34.4	14.9	20.0	97.7	70 - 130	X424236 - X4F0103-01	17-Jun-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.934	<0.080	1.00	93.4	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Aluminum	mg/L	212	216	1.00	0.30R>S	70 - 130	X424032 - X4F0080-07	10-Jun-24	M3
EPA 200.7	Barium	mg/L	0.982	0.0462	1.00	93.5	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Barium	mg/L	0.984	0.0106	1.00	97.4	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Beryllium	mg/L	0.968	<0.00200	1.00	96.8	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Beryllium	mg/L	1.20	0.218	1.00	98.4	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Boron	mg/L	1.02	0.0436	1.00	97.3	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	101	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Cadmium	mg/L	0.921	0.0031	1.00	91.8	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Cadmium	mg/L	1.48	0.517	1.00	96.7	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Calcium	mg/L	280	268	20.0	0.30R>S	70 - 130	X424032 - X4E0432-01	10-Jun-24	M3
EPA 200.7	Calcium	mg/L	486	478	20.0	0.30R>S	70 - 130	X424032 - X4F0080-07	10-Jun-24	M3
EPA 200.7	Chromium	mg/L	0.942	<0.0060	1.00	94.2	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Chromium	mg/L	0.971	0.0160	1.00	95.5	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Cobalt	mg/L	0.908	0.0067	1.00	90.1	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Cobalt	mg/L	1.44	0.489	1.00	94.7	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Copper	mg/L	0.969	0.0117	1.00	95.7	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Copper	mg/L	1.76	0.715	1.00	105	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Iron	mg/L	9.68	<0.100	10.0	96.8	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Iron	mg/L	10.1	0.293	10.0	97.6	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Lead	mg/L	0.914	<0.0075	1.00	90.8	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Lead	mg/L	0.971	<0.0075	1.00	96.4	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Lithium	mg/L	0.911	<0.040	1.00	91.1	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Lithium	mg/L	1.09	0.111	1.00	98.1	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Magnesium	mg/L	77.9	60.0	20.0	89.2	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Magnesium	mg/L	208	192	20.0	84.6	70 - 130	X424032 - X4F0080-07	10-Jun-24	

SVL holds the following certifications:

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

Work order Report Page 18 of 28


Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

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	0.966	0.0259	1.00	94.0	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Manganese	mg/L	74.0	74.5	1.00	0.30R>S	70 - 130	X424032 - X4F0080-07	10-Jun-24	M3
EPA 200.7	Molybdenum	mg/L	0.984	0.0275	1.00	95.7	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Molybdenum	mg/L	0.978	<0.0080	1.00	97.4	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Nickel	mg/L	0.899	<0.0100	1.00	89.9	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Nickel	mg/L	1.83	0.893	1.00	93.8	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Potassium	mg/L	23.7	4.45	20.0	96.1	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Potassium	mg/L	25.4	5.38	20.0	100	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Silver	mg/L	0.0482	<0.0050	0.0500	96.4	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Silver	mg/L	0.0515	<0.0050	0.0500	103	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Sodium	mg/L	66.5	49.4	19.0	90.1	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Sodium	mg/L	55.1	36.6	19.0	97.5	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Vanadium	mg/L	0.967	<0.0050	1.00	96.7	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Vanadium	mg/L	0.994	0.0057	1.00	98.8	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Zinc	mg/L	1.28	0.359	1.00	92.5	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Zinc	mg/L	19.7	19.1	1.00	0.30R>S	70 - 130	X424032 - X4F0080-07	10-Jun-24	M3
EPA 200.8	Antimony	mg/L	0.0271	<0.00100	0.0250	105	70 - 130	X424005 - X4F0019-01	17-Jun-24	
EPA 200.8	Antimony	mg/L	0.0269	<0.00100	0.0250	108	70 - 130	X424005 - X4F0056-01	17-Jun-24	
EPA 200.8	Arsenic	mg/L	0.0268	<0.00100	0.0250	107	70 - 130	X424005 - X4F0019-01	17-Jun-24	
EPA 200.8	Arsenic	mg/L	0.0275	<0.00100	0.0250	109	70 - 130	X424005 - X4F0056-01	17-Jun-24	
EPA 200.8	Selenium	mg/L	0.0269	<0.00100	0.0250	107	70 - 130	X424005 - X4F0019-01	17-Jun-24	
EPA 200.8	Selenium	mg/L	0.0282	0.00122	0.0250	108	70 - 130	X424005 - X4F0056-01	17-Jun-24	
EPA 200.8	Thallium	mg/L	0.0267	<0.000200	0.0250	107	70 - 130	X424005 - X4F0019-01	17-Jun-24	
EPA 200.8	Thallium	mg/L	0.0265	<0.000200	0.0250	106	70 - 130	X424005 - X4F0056-01	17-Jun-24	
EPA 200.8	Uranium	mg/L	0.0277	0.000656	0.0250	108	70 - 130	X424005 - X4F0019-01	17-Jun-24	
EPA 200.8	Uranium	mg/L	0.0281	0.00121	0.0250	108	70 - 130	X424005 - X4F0056-01	17-Jun-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00211	<0.000200	0.00200	106	70 - 130	X424068 - X4F0004-01	12-Jun-24	
EPA 245.1	Mercury	mg/L	0.00210	<0.000200	0.00200	105	70 - 130	X424068 - X4F0080-02	12-Jun-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0820	<0.0050	0.100	82.0	79 - 121	X424161 - X4F0045-01	12-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.0982	<0.0050	0.100	98.2	90 - 110	X424183 - X4F0079-01	14-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X424183 - X4F0079-02	14-Jun-24	
EPA 350.1	Ammonia as N	mg/L	1.00	<0.030	1.00	100	90 - 110	X424020 - X4F0078-09	11-Jun-24	
EPA 350.1	Ammonia as N	mg/L	0.990	<0.030	1.00	99.0	90 - 110	X424020 - X4F0078-10	11-Jun-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0990	<0.0050	0.100	99.0	82 - 118	X424024 - X4E0490-03	11-Jun-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	4.97	1.79	3.00	106	90 - 110	X423218 - X4F0080-03	06-Jun-24	
EPA 300.0	Chloride	mg/L	167	162	3.00	0.30R>S	90 - 110	X423218 - X4F0084-01	07-Jun-24	D2,M4
EPA 300.0	Fluoride	mg/L	2.25	0.215	2.00	102	90 - 110	X423218 - X4F0080-03	06-Jun-24	
EPA 300.0	Fluoride	mg/L	2.71	<0.100	2.00	135	90 - 110	X423218 - X4F0084-01	06-Jun-24	M1
EPA 300.0	Nitrate as N	mg/L	2.78	0.663	2.00	106	90 - 110	X423218 - X4F0080-03	06-Jun-24	
EPA 300.0	Nitrate as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X423218 - X4F0084-01	06-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.84	0.663	4.00	104	90 - 110	X423218 - X4F0080-03	06-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.40	<0.100	4.00	110	90 - 110	X423218 - X4F0084-01	06-Jun-24	D1
EPA 300.0	Nitrite as N	mg/L	2.05	<0.050	2.00	103	90 - 110	X423218 - X4F0080-03	06-Jun-24	
EPA 300.0	Nitrite as N	mg/L	<2.50	<2.50	2.00	118	90 - 110	X423218 - X4F0084-01	07-Jun-24	D1,M4
EPA 300.0	Sulfate as SO4	mg/L	31.8	21.4	10.0	104	90 - 110	X423218 - X4F0080-03	06-Jun-24	

SVL holds the following certifications:

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

Work order Report Page 19 of 28


Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO ₄	mg/L	11.0	<0.30	10.0	107	90 - 110	X423218 - X4F0084-01	06-Jun-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	19.4	20.0	20.0	3.0	20	96	X424236 - X4F0080-01	
EPA 200.7	Magnesium	mg/L	19.9	20.3	20.0	1.7	20	99.7	X424236 - X4F0080-01	
EPA 200.7	Potassium	mg/L	76.4	77.6	20.0	1.6	20	118	X424236 - X4F0080-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.980	0.934	1.00	4.8	20	98.0	X424032 - X4E0432-01	
EPA 200.7	Barium	mg/L	1.03	0.982	1.00	4.5	20	98.0	X424032 - X4E0432-01	
EPA 200.7	Beryllium	mg/L	0.986	0.968	1.00	1.9	20	98.6	X424032 - X4E0432-01	
EPA 200.7	Boron	mg/L	1.05	1.02	1.00	2.9	20	100	X424032 - X4E0432-01	
EPA 200.7	Cadmium	mg/L	0.954	0.921	1.00	3.5	20	95.1	X424032 - X4E0432-01	
EPA 200.7	Calcium	mg/L	281	280	20.0	0.4	20	0.30R>S	X424032 - X4E0432-01	M3
EPA 200.7	Chromium	mg/L	0.976	0.942	1.00	3.5	20	97.6	X424032 - X4E0432-01	
EPA 200.7	Cobalt	mg/L	0.939	0.908	1.00	3.4	20	93.3	X424032 - X4E0432-01	
EPA 200.7	Copper	mg/L	0.999	0.969	1.00	3.1	20	98.7	X424032 - X4E0432-01	
EPA 200.7	Iron	mg/L	9.98	9.68	10.0	3.1	20	99.8	X424032 - X4E0432-01	
EPA 200.7	Lead	mg/L	0.947	0.914	1.00	3.5	20	94.1	X424032 - X4E0432-01	
EPA 200.7	Lithium	mg/L	0.945	0.911	1.00	3.6	20	94.5	X424032 - X4E0432-01	
EPA 200.7	Magnesium	mg/L	79.9	77.9	20.0	2.6	20	99.5	X424032 - X4E0432-01	
EPA 200.7	Manganese	mg/L	1.00	0.966	1.00	3.5	20	97.4	X424032 - X4E0432-01	
EPA 200.7	Molybdenum	mg/L	1.02	0.984	1.00	3.6	20	99.3	X424032 - X4E0432-01	
EPA 200.7	Nickel	mg/L	0.933	0.899	1.00	3.7	20	93.3	X424032 - X4E0432-01	
EPA 200.7	Potassium	mg/L	24.2	23.7	20.0	2.4	20	99.0	X424032 - X4E0432-01	
EPA 200.7	Silver	mg/L	0.0496	0.0482	0.0500	2.9	20	99.3	X424032 - X4E0432-01	
EPA 200.7	Sodium	mg/L	67.2	66.5	19.0	1.0	20	93.6	X424032 - X4E0432-01	
EPA 200.7	Vanadium	mg/L	0.997	0.967	1.00	3.0	20	99.7	X424032 - X4E0432-01	
EPA 200.7	Zinc	mg/L	1.32	1.28	1.00	2.6	20	95.9	X424032 - X4E0432-01	
EPA 200.8	Antimony	mg/L	0.0270	0.0271	0.0250	0.5	20	105	X424005 - X4F0019-01	
EPA 200.8	Arsenic	mg/L	0.0277	0.0268	0.0250	3.6	20	111	X424005 - X4F0019-01	
EPA 200.8	Selenium	mg/L	0.0271	0.0269	0.0250	0.6	20	107	X424005 - X4F0019-01	
EPA 200.8	Thallium	mg/L	0.0266	0.0267	0.0250	0.4	20	106	X424005 - X4F0019-01	
EPA 200.8	Uranium	mg/L	0.0271	0.0277	0.0250	2.4	20	106	X424005 - X4F0019-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00205	0.00211	0.00200	2.9	20	103	X424068 - X4F0004-01	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0770	0.0820	0.100	6.3	11	77.0	X424161 - X4F0045-01	M2
EPA 335.4	Cyanide (total)	mg/L	0.101	0.0982	0.100	2.4	20	101	X424183 - X4F0079-01	
EPA 350.1	Ammonia as N	mg/L	0.990	1.00	1.00	1.0	20	99.0	X424020 - X4F0078-09	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.0990	0.100	2.0	11	101	X424024 - X4E0490-03	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	164	167	3.00	1.7	20	0.30R>S	X423218 - X4F0084-01	D2,M4
EPA 300.0	Fluoride	mg/L	2.73	2.71	2.00	0.8	20	136	X423218 - X4F0084-01	M1
EPA 300.0	Nitrate as N	mg/L	2.06	2.04	2.00	1.2	20	103	X423218 - X4F0084-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.43	4.40	4.00	0.5	20	111	X423218 - X4F0084-01	D1,M4
EPA 300.0	Nitrite as N	mg/L	<2.50	<2.50	2.00	0.0	20	118	X423218 - X4F0084-01	D1,M4

SVL holds the following certifications:

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

Work order Report Page 20 of 28



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Newmont - Cripple Creek & Victor					Project Name: Cripple Creek/Victor Water and Soil 2024				
Post Office Box 191					Work Order: X4F0080				
Victor, CO 80860					Reported: 20-Jun-24 10:09				

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	11.0	11.0	10.0	0.6	20	108	X423218 - X4F0084-01	



Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

HOLDING TIME SUMMARY**ASTM D7237**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0080**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
RB-0605	06/05/24	06/06/24	06/12/24	7	14	06/12/24	7	14	
GVMW-26A	06/05/24	06/06/24	06/12/24	7	14	06/12/24	7	14	
GVMW-26B	06/05/24	06/06/24	06/12/24	7	14	06/12/24	7	14	
GVMW-126G	06/05/24	06/06/24	06/12/24	7	14	06/12/24	7	14	
GVMW-22A	06/05/24	06/06/24	06/12/24	7	14	06/12/24	7	14	
GVMW-22B	06/05/24	06/06/24	06/12/24	7	14	06/12/24	7	14	
GVMW-25	06/05/24	06/06/24	06/12/24	7	14	06/12/24	7	14	

HOLDING TIME SUMMARY**EPA 245.1**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0080**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
RB-0605	06/05/24	06/06/24	06/12/24	7	28	06/12/24	7	28	
GVMW-26A	06/05/24	06/06/24	06/12/24	7	28	06/12/24	7	28	
GVMW-26B	06/05/24	06/06/24	06/12/24	7	28	06/12/24	7	28	
GVMW-126G	06/05/24	06/06/24	06/12/24	7	28	06/12/24	7	28	
GVMW-22A	06/05/24	06/06/24	06/12/24	7	28	06/12/24	7	28	
GVMW-22B	06/05/24	06/06/24	06/12/24	7	28	06/12/24	7	28	
GVMW-25	06/05/24	06/06/24	06/12/24	7	28	06/12/24	7	28	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

HOLDING TIME SUMMARY**EPA 300.0**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0080**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
RB-0605	06/05/24 09:30	06/06/24	06/06/24 13:19	1.2	2.0	06/06/24 14:25	1.2	2.0	
RB-0605	06/05/24	06/06/24	06/06/24	1	28	06/06/24	1	28	
RB-0605	06/05/24	06/06/24	06/06/24	1	28	06/06/24	1	28	
GVMW-26A	06/05/24 10:19	06/06/24	06/06/24 13:19	1.2	2.0	06/06/24 15:39	1.3	2.0	
GVMW-26A	06/05/24	06/06/24	06/06/24	1	28	06/06/24	1	28	
GVMW-26B	06/05/24 11:20	06/06/24	06/06/24 13:19	1.1	2.0	06/06/24 16:16	1.2	2.0	
GVMW-26B	06/05/24	06/06/24	06/06/24	1	28	06/06/24	1	28	
GVMW-126G	06/05/24 11:20	06/06/24	06/06/24 13:19	1.1	2.0	06/06/24 16:53	1.3	2.0	
GVMW-126G	06/05/24	06/06/24	06/06/24	1	28	06/06/24	1	28	
GVMW-22A	06/05/24 12:35	06/06/24	06/06/24 13:19	1.1	2.0	06/06/24 18:25	1.3	2.0	
GVMW-22A	06/05/24	06/06/24	06/06/24	1	28	06/06/24	1	28	
GVMW-22B	06/05/24 13:32	06/06/24	06/06/24 13:19	1.0	2.0	06/06/24 19:02	1.3	2.0	
GVMW-22B	06/05/24	06/06/24	06/06/24	1	28	06/06/24	1	28	
GVMW-25	06/05/24 14:25	06/06/24	06/06/24 13:19	1.0	2.0	06/06/24 19:39	1.3	2.0	
GVMW-25	06/05/24	06/06/24	06/06/24	1	28	06/06/24	1	28	
GVMW-25	06/05/24	06/06/24	06/06/24	1	28	06/06/24	1	28	
GVMW-25	06/05/24	06/06/24	06/06/24	1	28	06/07/24	2	28	



Newmont - Cripple Creek & Victor

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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

HOLDING TIME SUMMARY**EPA 335.4**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0080**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
RB-0605	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-26A	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-26B	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-126G	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-22A	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-22B	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-25	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	

HOLDING TIME SUMMARY**EPA 350.1**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0080**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
RB-0605	06/05/24	06/06/24	06/10/24	5	28	06/11/24	6	28	
GVMW-26A	06/05/24	06/06/24	06/10/24	5	28	06/11/24	6	28	
GVMW-26B	06/05/24	06/06/24	06/10/24	5	28	06/11/24	6	28	
GVMW-126G	06/05/24	06/06/24	06/10/24	5	28	06/11/24	6	28	
GVMW-22A	06/05/24	06/06/24	06/10/24	5	28	06/11/24	6	28	
GVMW-22B	06/05/24	06/06/24	06/10/24	5	28	06/11/24	6	28	
GVMW-25	06/05/24	06/06/24	06/10/24	5	28	06/11/24	6	28	



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Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

HOLDING TIME SUMMARY**OIA 1677**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0080**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
RB-0605	06/05/24	06/06/24	06/10/24	5	14	06/11/24	6	14	
GVMW-26A	06/05/24	06/06/24	06/10/24	5	14	06/11/24	6	14	
GVMW-26B	06/05/24	06/06/24	06/10/24	5	14	06/11/24	6	14	
GVMW-126G	06/05/24	06/06/24	06/10/24	5	14	06/11/24	6	14	
GVMW-22A	06/05/24	06/06/24	06/10/24	5	14	06/11/24	6	14	
GVMW-22B	06/05/24	06/06/24	06/10/24	5	14	06/11/24	6	14	
GVMW-25	06/05/24	06/06/24	06/10/24	5	14	06/11/24	6	14	

HOLDING TIME SUMMARY**SM 2310 B**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0080**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
RB-0605	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-26A	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-26B	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-126G	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-22A	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-22B	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-25	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	



Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

HOLDING TIME SUMMARY**SM 2320 B**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0080**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
RB-0605	06/05/24	06/06/24	06/10/24	5	14	06/10/24	5	14	
GVMW-26A	06/05/24	06/06/24	06/10/24	5	14	06/10/24	5	14	
GVMW-26B	06/05/24	06/06/24	06/10/24	5	14	06/10/24	5	14	
GVMW-126G	06/05/24	06/06/24	06/10/24	5	14	06/10/24	5	14	
GVMW-22A	06/05/24	06/06/24	06/10/24	5	14	06/10/24	5	14	
GVMW-22B	06/05/24	06/06/24	06/10/24	5	14	06/10/24	5	14	
GVMW-25	06/05/24	06/06/24	06/10/24	5	14	06/10/24	5	14	

HOLDING TIME SUMMARY**SM 2540 C**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0080**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
RB-0605		06/06/24		5	7		1.0		
GVMW-26A		06/06/24		5	7		1.0		
GVMW-26B		06/06/24		5	7		1.0		
GVMW-126G		06/06/24		5	7		1.0		
GVMW-22A		06/06/24		5	7		1.0		
GVMW-22B		06/06/24		5	7		1.0		
GVMW-25		06/06/24		5	7		1.0		



Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: X4F0080

Reported: 20-Jun-24 10:09

HOLDING TIME SUMMARY**SM 2540 D**

Laboratory: SVL Analytical, Inc.

SDG: X4F0080

Client: Newmont - Cripple Creek & Victor

Project: Cripple Creek/Victor Water and Soil 2024

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
RB-0605		06/06/24		5	7		2.0		
GVMW-26A		06/06/24		5	7		2.0		
GVMW-26B		06/06/24		5	7		2.0		
GVMW-126G		06/06/24		5	7		2.0		
GVMW-22A		06/06/24		5	7		2.0		
GVMW-22B		06/06/24		5	7		2.0		
GVMW-25		06/06/24		5	7		2.0		

HOLDING TIME SUMMARY**SM 4500 H B**

Laboratory: SVL Analytical, Inc.

SDG: X4F0080

Client: Newmont - Cripple Creek & Victor

Project: Cripple Creek/Victor Water and Soil 2024

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
RB-0605	06/05/24 09:30	06/06/24	06/10/24 08:06	5.0	0.0	06/10/24 16:57	5.4	0.0	H5
GVMW-26A	06/05/24 10:19	06/06/24	06/10/24 08:06	4.9	0.0	06/10/24 17:02	5.3	0.0	H5
GVMW-26B	06/05/24 11:20	06/06/24	06/10/24 08:06	4.9	0.0	06/10/24 17:08	5.3	0.0	H5
GVMW-126G	06/05/24 11:20	06/06/24	06/10/24 08:06	4.9	0.0	06/10/24 17:14	5.3	0.0	H5
GVMW-22A	06/05/24 12:35	06/06/24	06/10/24 08:06	4.9	0.0	06/10/24 17:32	5.2	0.0	H5
GVMW-22B	06/05/24 13:32	06/06/24	06/10/24 08:06	4.8	0.0	06/10/24 17:39	5.2	0.0	H5
GVMW-25	06/05/24 14:25	06/06/24	06/10/24 08:06	4.8	0.0	06/10/24 17:45	5.2	0.0	H5



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Kellogg, ID 83837-0929

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable



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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4F0175**

Reported: 28-Jun-24 14:29

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

Sampled: 11-Jun-24 08:38

Received: 12-Jun-24

Sampled By: PB

SVL Sample ID: **X4F0175-01 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes

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

EPA 200.7	Calcium	50.2	mg/L	0.100	0.069		X425056	NMS	06/24/24 10:53	
EPA 200.7	Magnesium	6.53	mg/L	0.500	0.090		X425056	NMS	06/24/24 10:53	
EPA 200.7	Potassium	0.78	mg/L	0.50	0.18		X425056	NMS	06/24/24 10:53	
SM 2340 B	Hardness (as CaCO3)	152	mg/L	2.31	0.543		N/A		06/19/24 15:42	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X425063	NMS	06/19/24 15:42	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X425063	NMS	06/19/24 15:42	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X425063	NMS	06/19/24 15:42	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X425063	NMS	06/19/24 15:42	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X425063	NMS	06/19/24 15:42	
EPA 200.7	Calcium	50.8	mg/L	0.100	0.069		X425063	NMS	06/19/24 15:42	
EPA 200.7	Chromium	0.0079	mg/L	0.0060	0.0020		X425063	NMS	06/19/24 15:42	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X425063	NMS	06/19/24 15:42	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X425063	NMS	06/19/24 15:42	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X425063	NMS	06/19/24 15:42	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X425063	NMS	06/19/24 15:42	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X425063	NMS	06/19/24 15:42	
EPA 200.7	Magnesium	6.66	mg/L	0.500	0.090		X425063	NMS	06/19/24 15:42	
EPA 200.7	Manganese	0.0245	mg/L	0.0080	0.0034		X425063	NMS	06/19/24 15:42	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X425063	NMS	06/19/24 15:42	
EPA 200.7	Nickel	0.0100	mg/L	0.0100	0.0048		X425063	NMS	06/19/24 15:42	
EPA 200.7	Potassium	0.73	mg/L	0.50	0.18		X425063	NMS	06/19/24 15:42	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X425063	NMS	06/19/24 15:42	
EPA 200.7	Sodium	25.0	mg/L	0.50	0.12		X425063	NMS	06/19/24 15:42	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X425063	NMS	06/19/24 15:42	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X425063	NMS	06/19/24 15:42	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X425041	SMU	06/25/24 16:01	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X425041	SMU	06/25/24 16:01	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X425041	SMU	06/25/24 16:01	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X425041	SMU	06/25/24 16:01	
EPA 200.8	Uranium	0.00486	mg/L	0.000100	0.000052		X425041	SMU	06/25/24 16:01	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X425106	MAC	06/25/24 14:44	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X424161	DD	06/12/24 13:40	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X424184	JPM	06/14/24 11:37	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X425016	JPM	06/18/24 11:07	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X426131	DD	06/26/24 15:33	H1
SM 2310 B	Acidity to pH 8.3	-62.3	mg/L as CaCO3	10.0			X425195	MWD	06/21/24 09:00	
SM 2320 B	Total Alkalinity	54.1	mg/L as CaCO3	1.0			X425075	MWD	06/18/24 16:11	
SM 2320 B	Bicarbonate	54.1	mg/L as CaCO3	1.0			X425075	MWD	06/18/24 16:11	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X425075	MWD	06/18/24 16:11	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X425075	MWD	06/18/24 16:11	
SM 2540 C	Total Diss. Solids	242	mg/L	10			X424165	TJL	06/14/24 14:20	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X424166	TJL	06/14/24 15:30	
SM 4500 H B	pH @19.2°C	6.9	pH Units				X425075	MWD	06/18/24 16:11	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 22



One Government Gulch - PO Box 929
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Newmont - Cripple Creek & Victor	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4F0175
Victor, CO 80860	Reported: 28-Jun-24 14:29

Client Sample ID: GVMW-8A
SVL Sample ID: X4F0175-01 (Ground Water)

Sampled: 11-Jun-24 08:38
Received: 12-Jun-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	65.7	mg/L	2.00	0.22	10	X424154	RS	06/12/24 20:28	D2,M4
EPA 300.0	Fluoride	1.86	mg/L	0.100	0.017		X424154	RS	06/12/24 20:11	
EPA 300.0	Nitrate as N	1.34	mg/L	0.050	0.013		X424154	RS	06/12/24 20:11	
EPA 300.0	Nitrate+Nitrite as N	1.34	mg/L	0.100	0.044		X424154	RS	06/12/24 20:11	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X424154	RS	06/12/24 20:11	
EPA 300.0	Sulfate as SO4	63.7	mg/L	3.00	1.80	10	X424154	RS	06/12/24 20:28	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.16 meq/L	Anion Sum: 4.45 meq/L	C/A Balance: -3.38 %	Calculated TDS: 253	TDS/cTDS: 0.96

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

Tawnya M. Hall
Project Manager Assistant



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4F0175**

Reported: 28-Jun-24 14:29

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

Sampled: 11-Jun-24 09:21

Received: 12-Jun-24

Sampled By: PB

SVL Sample ID: **X4F0175-02 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes

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

EPA 200.7	Calcium	44.5	mg/L	0.100	0.069		X425056	NMS	06/24/24 10:56	
EPA 200.7	Magnesium	7.17	mg/L	0.500	0.090		X425056	NMS	06/24/24 10:56	
EPA 200.7	Potassium	1.33	mg/L	0.50	0.18		X425056	NMS	06/24/24 10:56	
SM 2340 B	Hardness (as CaCO3)	144	mg/L	2.31	0.543		N/A		06/24/24 10:56	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X425063	NMS	06/19/24 15:46	
EPA 200.7	Barium	0.0061	mg/L	0.0020	0.0019		X425063	NMS	06/19/24 15:46	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X425063	NMS	06/19/24 15:46	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X425063	NMS	06/19/24 15:46	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X425063	NMS	06/19/24 15:46	
EPA 200.7	Calcium	45.6	mg/L	0.100	0.069		X425063	NMS	06/19/24 15:46	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X425063	NMS	06/19/24 15:46	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X425063	NMS	06/19/24 15:46	
EPA 200.7	Copper	0.0187	mg/L	0.0100	0.0027		X425063	NMS	06/19/24 15:46	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X425063	NMS	06/19/24 15:46	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X425063	NMS	06/19/24 15:46	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X425063	NMS	06/19/24 15:46	
EPA 200.7	Magnesium	7.33	mg/L	0.500	0.090		X425063	NMS	06/19/24 15:46	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X425063	NMS	06/19/24 15:46	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X425063	NMS	06/19/24 15:46	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X425063	NMS	06/19/24 15:46	
EPA 200.7	Potassium	1.38	mg/L	0.50	0.18		X425063	NMS	06/19/24 15:46	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X425063	NMS	06/19/24 15:46	
EPA 200.7	Sodium	25.3	mg/L	0.50	0.12		X425063	NMS	06/19/24 15:46	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X425063	NMS	06/19/24 15:46	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X425063	NMS	06/19/24 15:46	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X425041	SMU	06/25/24 16:03	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X425041	SMU	06/25/24 16:03	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X425041	SMU	06/25/24 16:03	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X425041	SMU	06/25/24 16:03	
EPA 200.8	Uranium	0.00237	mg/L	0.000100	0.000052		X425041	SMU	06/25/24 16:03	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X425106	MAC	06/25/24 14:46	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X424161	DD	06/12/24 13:41	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X424184	JPM	06/14/24 11:40	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X425016	JPM	06/18/24 11:09	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X426131	DD	06/26/24 15:34	H1
SM 2310 B	Acidity to pH 8.3	-33.5	mg/L as CaCO3	10.0			X425195	MWD	06/21/24 09:00	
SM 2320 B	Total Alkalinity	35.7	mg/L as CaCO3	1.0			X425075	MWD	06/18/24 16:16	
SM 2320 B	Bicarbonate	35.7	mg/L as CaCO3	1.0			X425075	MWD	06/18/24 16:16	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X425075	MWD	06/18/24 16:16	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X425075	MWD	06/18/24 16:16	
SM 2540 C	Total Diss. Solids	250	mg/L	10			X424165	TJL	06/14/24 14:20	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X424166	TJL	06/14/24 15:30	
SM 4500 H B	pH @19.1°C	6.7	pH Units				X425075	MWD	06/18/24 16:16	H5

SVL holds the following certifications:

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

Work order Report Page 4 of 22



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

Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4F0175 Reported: 28-Jun-24 14:29

Client Sample ID: **GVMW-8B**
SVL Sample ID: **X4F0175-02 (Ground Water)**

Sampled: 11-Jun-24 09:21
Received: 12-Jun-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	34.4	mg/L	2.00	0.22	10	X424154	RS	06/12/24 22:40	D2
EPA 300.0	Fluoride	2.20	mg/L	0.100	0.017		X424154	RS	06/12/24 22:24	
EPA 300.0	Nitrate as N	2.04	mg/L	0.050	0.013		X424154	RS	06/12/24 22:24	
EPA 300.0	Nitrate+Nitrite as N	2.04	mg/L	0.100	0.044		X424154	RS	06/12/24 22:24	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X424154	RS	06/12/24 22:24	
EPA 300.0	Sulfate as SO4	106	mg/L	3.00	1.80	10	X424154	RS	06/12/24 22:40	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.96 meq/L	Anion Sum: 4.15 meq/L	C/A Balance: -2.39 %	Calculated TDS: 252	TDS/cTDS: 0.99

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

Tawnya M. Hall
Project Manager Assistant

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0175**

Reported: 28-Jun-24 14:29

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	X425056	24-Jun-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X425056	24-Jun-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X425056	24-Jun-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X425063	19-Jun-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X425063	19-Jun-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X425063	19-Jun-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X425063	19-Jun-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X425063	19-Jun-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X425063	19-Jun-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X425063	19-Jun-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X425063	19-Jun-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X425063	19-Jun-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X425063	19-Jun-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X425063	19-Jun-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X425063	19-Jun-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X425063	19-Jun-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X425063	19-Jun-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X425063	19-Jun-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X425063	19-Jun-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X425063	19-Jun-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X425063	19-Jun-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X425063	19-Jun-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X425063	19-Jun-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X425063	19-Jun-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X425041	25-Jun-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X425041	25-Jun-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X425041	25-Jun-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X425041	25-Jun-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X425041	25-Jun-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X425106	25-Jun-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X424161	12-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X424184	14-Jun-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X425016	18-Jun-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X425016	20-Jun-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X426131	26-Jun-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X425195	21-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X425075	18-Jun-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X425075	18-Jun-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X425075	18-Jun-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X425075	18-Jun-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X424165	14-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X424166	14-Jun-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X424154	12-Jun-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X424154	12-Jun-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X424154	12-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X424154	12-Jun-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X424154	12-Jun-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X424154	12-Jun-24	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0175**

Reported: 28-Jun-24 14:29

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes

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

EPA 200.7	Calcium	mg/L	20.1	20.0	100	85 - 115	X425056	24-Jun-24	
EPA 200.7	Magnesium	mg/L	20.8	20.0	104	85 - 115	X425056	24-Jun-24	
EPA 200.7	Potassium	mg/L	20.7	20.0	103	85 - 115	X425056	24-Jun-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.975	1.00	97.5	85 - 115	X425063	19-Jun-24	
EPA 200.7	Barium	mg/L	0.982	1.00	98.2	85 - 115	X425063	19-Jun-24	
EPA 200.7	Beryllium	mg/L	0.987	1.00	98.7	85 - 115	X425063	19-Jun-24	
EPA 200.7	Boron	mg/L	0.978	1.00	97.8	85 - 115	X425063	19-Jun-24	
EPA 200.7	Cadmium	mg/L	0.968	1.00	96.8	85 - 115	X425063	19-Jun-24	
EPA 200.7	Calcium	mg/L	19.7	20.0	98.7	85 - 115	X425063	19-Jun-24	
EPA 200.7	Chromium	mg/L	0.992	1.00	99.2	85 - 115	X425063	19-Jun-24	
EPA 200.7	Cobalt	mg/L	0.951	1.00	95.1	85 - 115	X425063	19-Jun-24	
EPA 200.7	Copper	mg/L	0.984	1.00	98.4	85 - 115	X425063	19-Jun-24	
EPA 200.7	Iron	mg/L	9.72	10.0	97.2	85 - 115	X425063	19-Jun-24	
EPA 200.7	Lead	mg/L	0.948	1.00	94.8	85 - 115	X425063	19-Jun-24	
EPA 200.7	Lithium	mg/L	0.937	1.00	93.7	85 - 115	X425063	19-Jun-24	
EPA 200.7	Magnesium	mg/L	19.8	20.0	98.8	85 - 115	X425063	19-Jun-24	
EPA 200.7	Manganese	mg/L	0.962	1.00	96.2	85 - 115	X425063	19-Jun-24	
EPA 200.7	Molybdenum	mg/L	0.978	1.00	97.8	85 - 115	X425063	19-Jun-24	
EPA 200.7	Nickel	mg/L	0.957	1.00	95.7	85 - 115	X425063	19-Jun-24	
EPA 200.7	Potassium	mg/L	19.5	20.0	97.7	85 - 115	X425063	19-Jun-24	
EPA 200.7	Silver	mg/L	0.0488	0.0500	97.7	85 - 115	X425063	19-Jun-24	
EPA 200.7	Sodium	mg/L	19.1	19.0	100	85 - 115	X425063	19-Jun-24	
EPA 200.7	Vanadium	mg/L	0.986	1.00	98.6	85 - 115	X425063	19-Jun-24	
EPA 200.7	Zinc	mg/L	0.978	1.00	97.8	85 - 115	X425063	19-Jun-24	
EPA 200.8	Antimony	mg/L	0.0251	0.0250	101	85 - 115	X425041	25-Jun-24	
EPA 200.8	Arsenic	mg/L	0.0248	0.0250	99.1	85 - 115	X425041	25-Jun-24	
EPA 200.8	Selenium	mg/L	0.0241	0.0250	96.3	85 - 115	X425041	25-Jun-24	
EPA 200.8	Thallium	mg/L	0.0253	0.0250	101	85 - 115	X425041	25-Jun-24	
EPA 200.8	Uranium	mg/L	0.0252	0.0250	101	85 - 115	X425041	25-Jun-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00220	0.00200	110	85 - 115	X425106	25-Jun-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	0.100	98.0	90 - 110	X424161	12-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.0979	0.100	97.9	90 - 110	X424184	14-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.0981	0.100	98.1	90 - 110	X424184	14-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.0973	0.100	97.3	90 - 110	X424184	14-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.0982	0.100	98.2	90 - 110	X424184	14-Jun-24	
EPA 350.1	Ammonia as N	mg/L	0.967	1.00	96.7	90 - 110	X425016	18-Jun-24	
EPA 350.1	Ammonia as N	mg/L	0.955	1.00	95.5	90 - 110	X425016	20-Jun-24	
OIA 1677	Cyanide (WAD)	mg/L	0.108	0.100	108	90 - 110	X426131	26-Jun-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	860	884	97.2	95.4 - 104	X425195	21-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.80	9.93	98.7	96.4 - 105	X425075	18-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	102	99.3	103	96.4 - 105	X425075	18-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	408	397	103	96.4 - 105	X425075	18-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X424166	14-Jun-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.04	3.00	101	90 - 110	X424154	12-Jun-24	
EPA 300.0	Fluoride	mg/L	2.00	2.00	99.9	90 - 110	X424154	12-Jun-24	
EPA 300.0	Nitrate as N	mg/L	2.01	2.00	100	90 - 110	X424154	12-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.51	4.50	100	90 - 110	X424154	12-Jun-24	
EPA 300.0	Nitrite as N	mg/L	2.50	2.50	100	90 - 110	X424154	12-Jun-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X424154	12-Jun-24	

SVL holds the following certifications:

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

Work order Report Page 13 of 22

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0175**

Reported: 28-Jun-24 14:29

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	<10.0	<10.0	UDL	20	X425195 - X4F0175-01	21-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	33.6	35.7	6.1	20	X425075 - X4F0175-02	18-Jun-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	33.6	35.7	6.1	20	X425075 - X4F0175-02	18-Jun-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X425075 - X4F0175-02	18-Jun-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X425075 - X4F0175-02	18-Jun-24	
SM 2540 C	Total Diss. Solids	mg/L	703	714	1.6	10	X424165 - X4F0175-03	14-Jun-24	
SM 2540 C	Total Diss. Solids	mg/L	915	916	0.1	10	X424165 - X4F0176-02	14-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X424166 - X4F0176-02	14-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	5.0	<5.0	<RL	10	X424166 - X4F0175-03	14-Jun-24	
SM 4500 H B	pH @19.2°C	pH Units	6.6	6.7	1.2	20	X425075 - X4F0175-02	18-Jun-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	72.2	50.2	20.0	110	70 - 130	X425056 - X4F0175-01	24-Jun-24	
EPA 200.7	Calcium	mg/L	262	237	20.0	124	70 - 130	X425056 - X4F0285-01	24-Jun-24	
EPA 200.7	Magnesium	mg/L	27.5	6.53	20.0	105	70 - 130	X425056 - X4F0175-01	24-Jun-24	
EPA 200.7	Magnesium	mg/L	240	215	20.0	128	70 - 130	X425056 - X4F0285-01	24-Jun-24	
EPA 200.7	Potassium	mg/L	21.9	0.78	20.0	105	70 - 130	X425056 - X4F0175-01	24-Jun-24	
EPA 200.7	Potassium	mg/L	55.5	32.4	20.0	115	70 - 130	X425056 - X4F0285-01	24-Jun-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.938	<0.080	1.00	93.8	70 - 130	X425063 - X4F0175-01	19-Jun-24	
EPA 200.7	Aluminum	mg/L	1.08	<0.080	1.00	108	70 - 130	X425063 - X4F0310-01	19-Jun-24	
EPA 200.7	Barium	mg/L	0.935	<0.0020	1.00	93.5	70 - 130	X425063 - X4F0175-01	19-Jun-24	
EPA 200.7	Barium	mg/L	1.15	0.0550	1.00	109	70 - 130	X425063 - X4F0310-01	19-Jun-24	
EPA 200.7	Beryllium	mg/L	0.970	<0.00200	1.00	97.0	70 - 130	X425063 - X4F0175-01	19-Jun-24	
EPA 200.7	Beryllium	mg/L	1.06	<0.00200	1.00	106	70 - 130	X425063 - X4F0310-01	19-Jun-24	
EPA 200.7	Boron	mg/L	0.977	<0.0400	1.00	96.4	70 - 130	X425063 - X4F0175-01	19-Jun-24	
EPA 200.7	Boron	mg/L	1.12	<0.0400	1.00	111	70 - 130	X425063 - X4F0310-01	19-Jun-24	
EPA 200.7	Cadmium	mg/L	0.938	<0.0020	1.00	93.8	70 - 130	X425063 - X4F0175-01	19-Jun-24	
EPA 200.7	Cadmium	mg/L	1.05	<0.0020	1.00	105	70 - 130	X425063 - X4F0310-01	19-Jun-24	
EPA 200.7	Calcium	mg/L	68.9	50.8	20.0	90.7	70 - 130	X425063 - X4F0175-01	19-Jun-24	
EPA 200.7	Calcium	mg/L	113	92.9	20.0	98.1	70 - 130	X425063 - X4F0310-01	19-Jun-24	
EPA 200.7	Chromium	mg/L	0.971	0.0079	1.00	96.3	70 - 130	X425063 - X4F0175-01	19-Jun-24	
EPA 200.7	Chromium	mg/L	1.08	<0.0060	1.00	108	70 - 130	X425063 - X4F0310-01	19-Jun-24	
EPA 200.7	Cobalt	mg/L	0.915	<0.0060	1.00	91.5	70 - 130	X425063 - X4F0175-01	19-Jun-24	
EPA 200.7	Cobalt	mg/L	1.01	<0.0060	1.00	101	70 - 130	X425063 - X4F0310-01	19-Jun-24	
EPA 200.7	Copper	mg/L	0.962	<0.0100	1.00	95.2	70 - 130	X425063 - X4F0175-01	19-Jun-24	
EPA 200.7	Copper	mg/L	1.07	<0.0100	1.00	107	70 - 130	X425063 - X4F0310-01	19-Jun-24	
EPA 200.7	Iron	mg/L	9.54	<0.100	10.0	95.4	70 - 130	X425063 - X4F0175-01	19-Jun-24	
EPA 200.7	Iron	mg/L	10.5	<0.100	10.0	105	70 - 130	X425063 - X4F0310-01	19-Jun-24	
EPA 200.7	Lead	mg/L	0.918	<0.0075	1.00	91.8	70 - 130	X425063 - X4F0175-01	19-Jun-24	
EPA 200.7	Lead	mg/L	1.03	<0.0075	1.00	103	70 - 130	X425063 - X4F0310-01	19-Jun-24	
EPA 200.7	Lithium	mg/L	0.910	<0.040	1.00	91.0	70 - 130	X425063 - X4F0175-01	19-Jun-24	
EPA 200.7	Lithium	mg/L	1.04	<0.040	1.00	104	70 - 130	X425063 - X4F0310-01	19-Jun-24	
EPA 200.7	Magnesium	mg/L	25.2	6.66	20.0	92.8	70 - 130	X425063 - X4F0175-01	19-Jun-24	
EPA 200.7	Magnesium	mg/L	75.4	54.9	20.0	102	70 - 130	X425063 - X4F0310-01	19-Jun-24	

SVL holds the following certifications:

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

Work order Report Page 14 of 22

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0175**

Reported: 28-Jun-24 14:29

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	0.956	0.0245	1.00	93.1	70 - 130	X425063 - X4F0175-01	19-Jun-24	
EPA 200.7	Manganese	mg/L	1.06	0.0191	1.00	104	70 - 130	X425063 - X4F0310-01	19-Jun-24	
EPA 200.7	Molybdenum	mg/L	0.962	<0.0080	1.00	96.2	70 - 130	X425063 - X4F0175-01	19-Jun-24	
EPA 200.7	Molybdenum	mg/L	1.09	<0.0080	1.00	109	70 - 130	X425063 - X4F0310-01	19-Jun-24	
EPA 200.7	Nickel	mg/L	0.927	0.0100	1.00	91.7	70 - 130	X425063 - X4F0175-01	19-Jun-24	
EPA 200.7	Nickel	mg/L	1.02	<0.0100	1.00	102	70 - 130	X425063 - X4F0310-01	19-Jun-24	
EPA 200.7	Potassium	mg/L	19.7	0.73	20.0	95.0	70 - 130	X425063 - X4F0175-01	19-Jun-24	
EPA 200.7	Potassium	mg/L	22.0	1.12	20.0	104	70 - 130	X425063 - X4F0310-01	19-Jun-24	
EPA 200.7	Silver	mg/L	0.0476	<0.0050	0.0500	95.2	70 - 130	X425063 - X4F0175-01	19-Jun-24	
EPA 200.7	Silver	mg/L	0.0542	<0.0050	0.0500	108	70 - 130	X425063 - X4F0310-01	19-Jun-24	
EPA 200.7	Sodium	mg/L	42.8	25.0	19.0	93.5	70 - 130	X425063 - X4F0175-01	19-Jun-24	
EPA 200.7	Sodium	mg/L	23.1	2.74	19.0	107	70 - 130	X425063 - X4F0310-01	19-Jun-24	
EPA 200.7	Vanadium	mg/L	0.961	<0.0050	1.00	96.1	70 - 130	X425063 - X4F0175-01	19-Jun-24	
EPA 200.7	Vanadium	mg/L	1.09	<0.0050	1.00	109	70 - 130	X425063 - X4F0310-01	19-Jun-24	
EPA 200.7	Zinc	mg/L	0.954	<0.0100	1.00	95.4	70 - 130	X425063 - X4F0175-01	19-Jun-24	
EPA 200.7	Zinc	mg/L	1.07	<0.0100	1.00	107	70 - 130	X425063 - X4F0310-01	19-Jun-24	
EPA 200.8	Antimony	mg/L	0.0255	<0.00100	0.0250	102	70 - 130	X425041 - X4F0224-01	25-Jun-24	
EPA 200.8	Antimony	mg/L	0.0244	<0.00100	0.0250	97.7	70 - 130	X425041 - X4F0269-02	25-Jun-24	
EPA 200.8	Arsenic	mg/L	0.0260	<0.00100	0.0250	100	70 - 130	X425041 - X4F0224-01	25-Jun-24	
EPA 200.8	Arsenic	mg/L	0.0243	<0.00100	0.0250	95.3	70 - 130	X425041 - X4F0269-02	25-Jun-24	
EPA 200.8	Selenium	mg/L	0.0241	<0.00100	0.0250	96.5	70 - 130	X425041 - X4F0224-01	25-Jun-24	
EPA 200.8	Selenium	mg/L	0.0228	<0.00100	0.0250	89.6	70 - 130	X425041 - X4F0269-02	25-Jun-24	
EPA 200.8	Thallium	mg/L	0.0230	<0.000200	0.0250	92.1	70 - 130	X425041 - X4F0224-01	25-Jun-24	
EPA 200.8	Thallium	mg/L	0.0243	<0.000200	0.0250	97.0	70 - 130	X425041 - X4F0269-02	25-Jun-24	
EPA 200.8	Uranium	mg/L	0.0302	0.00555	0.0250	98.7	70 - 130	X425041 - X4F0224-01	25-Jun-24	
EPA 200.8	Uranium	mg/L	0.0246	0.000198	0.0250	97.8	70 - 130	X425041 - X4F0269-02	25-Jun-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00205	<0.000200	0.00200	103	70 - 130	X425106 - X4F0251-02	25-Jun-24	
EPA 245.1	Mercury	mg/L	0.00212	<0.000200	0.00200	106	70 - 130	X425106 - X4F0228-01	25-Jun-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0820	<0.0050	0.100	82.0	79 - 121	X424161 - X4F0045-01	12-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.100	<0.0050	0.100	100	90 - 110	X424184 - X4F0175-01	14-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.0991	<0.0050	0.100	99.1	90 - 110	X424184 - X4F0175-02	14-Jun-24	
EPA 350.1	Ammonia as N	mg/L	0.991	<0.030	1.00	99.1	90 - 110	X425016 - X4F0175-01	20-Jun-24	
EPA 350.1	Ammonia as N	mg/L	0.934	<0.030	1.00	93.4	90 - 110	X425016 - X4F0175-02	20-Jun-24	
OIA 1677	Cyanide (WAD)	mg/L	0.100	<0.0050	0.100	100	82 - 118	X426131 - X4F0175-01	26-Jun-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	18.7	15.8	3.00	96.4	90 - 110	X424154 - X4F0177-03	12-Jun-24	D2
EPA 300.0	Chloride	mg/L	69.2	65.7	3.00	0.30R>S	90 - 110	X424154 - X4F0175-01	12-Jun-24	D2,M4
EPA 300.0	Fluoride	mg/L	5.27	3.39	2.00	94.3	90 - 110	X424154 - X4F0177-03	12-Jun-24	
EPA 300.0	Fluoride	mg/L	3.87	1.86	2.00	101	90 - 110	X424154 - X4F0175-01	12-Jun-24	
EPA 300.0	Nitrate as N	mg/L	1.98	<0.050	2.00	99.0	90 - 110	X424154 - X4F0177-03	12-Jun-24	
EPA 300.0	Nitrate as N	mg/L	3.40	1.34	2.00	103	90 - 110	X424154 - X4F0175-01	12-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.01	<0.100	4.00	100	90 - 110	X424154 - X4F0177-03	12-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.46	1.34	4.00	103	90 - 110	X424154 - X4F0175-01	12-Jun-24	
EPA 300.0	Nitrite as N	mg/L	2.03	<0.050	2.00	101	90 - 110	X424154 - X4F0177-03	12-Jun-24	
EPA 300.0	Nitrite as N	mg/L	2.06	<0.050	2.00	103	90 - 110	X424154 - X4F0175-01	12-Jun-24	
EPA 300.0	Sulfate as SO4	mg/L	707	719	10.0	0.30R>S	90 - 110	X424154 - X4F0177-03	12-Jun-24	D2,M4

SVL holds the following certifications:

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

Work order Report Page 15 of 22

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0175**

Reported: 28-Jun-24 14:29

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	74.3	63.7	10.0	106	90 - 110	X424154 - X4F0175-01	12-Jun-24	D2

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	70.3	72.2	20.0	3.0	20	101	X425056 - X4F0175-01	
EPA 200.7	Magnesium	mg/L	26.7	27.5	20.0	2.9	20	101	X425056 - X4F0175-01	
EPA 200.7	Potassium	mg/L	21.2	21.9	20.0	3.0	20	102	X425056 - X4F0175-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.952	0.938	1.00	1.5	20	95.2	X425063 - X4F0175-01	
EPA 200.7	Barium	mg/L	0.976	0.935	1.00	4.4	20	97.6	X425063 - X4F0175-01	
EPA 200.7	Beryllium	mg/L	0.977	0.970	1.00	0.7	20	97.7	X425063 - X4F0175-01	
EPA 200.7	Boron	mg/L	0.990	0.977	1.00	1.3	20	97.7	X425063 - X4F0175-01	
EPA 200.7	Cadmium	mg/L	0.937	0.938	1.00	0.1	20	93.7	X425063 - X4F0175-01	
EPA 200.7	Calcium	mg/L	69.4	68.9	20.0	0.8	20	93.5	X425063 - X4F0175-01	
EPA 200.7	Chromium	mg/L	0.974	0.971	1.00	0.3	20	96.6	X425063 - X4F0175-01	
EPA 200.7	Cobalt	mg/L	0.914	0.915	1.00	0.1	20	91.4	X425063 - X4F0175-01	
EPA 200.7	Copper	mg/L	0.978	0.962	1.00	1.7	20	96.9	X425063 - X4F0175-01	
EPA 200.7	Iron	mg/L	9.76	9.54	10.0	2.2	20	97.6	X425063 - X4F0175-01	
EPA 200.7	Lead	mg/L	0.922	0.918	1.00	0.4	20	92.2	X425063 - X4F0175-01	
EPA 200.7	Lithium	mg/L	0.933	0.910	1.00	2.4	20	93.3	X425063 - X4F0175-01	
EPA 200.7	Magnesium	mg/L	25.8	25.2	20.0	2.4	20	95.9	X425063 - X4F0175-01	
EPA 200.7	Manganese	mg/L	0.973	0.956	1.00	1.8	20	94.8	X425063 - X4F0175-01	
EPA 200.7	Molybdenum	mg/L	0.957	0.962	1.00	0.5	20	95.7	X425063 - X4F0175-01	
EPA 200.7	Nickel	mg/L	0.925	0.927	1.00	0.2	20	91.5	X425063 - X4F0175-01	
EPA 200.7	Potassium	mg/L	20.2	19.7	20.0	2.5	20	97.5	X425063 - X4F0175-01	
EPA 200.7	Silver	mg/L	0.0455	0.0476	0.0500	4.6	20	90.9	X425063 - X4F0175-01	
EPA 200.7	Sodium	mg/L	43.3	42.8	19.0	1.2	20	96.1	X425063 - X4F0175-01	
EPA 200.7	Vanadium	mg/L	0.965	0.961	1.00	0.4	20	96.5	X425063 - X4F0175-01	
EPA 200.7	Zinc	mg/L	0.950	0.954	1.00	0.4	20	95.0	X425063 - X4F0175-01	
EPA 200.8	Antimony	mg/L	0.0263	0.0255	0.0250	3.3	20	105	X425041 - X4F0224-01	
EPA 200.8	Arsenic	mg/L	0.0256	0.0260	0.0250	1.6	20	98.7	X425041 - X4F0224-01	
EPA 200.8	Selenium	mg/L	0.0224	0.0241	0.0250	7.4	20	89.6	X425041 - X4F0224-01	
EPA 200.8	Thallium	mg/L	0.0232	0.0230	0.0250	0.5	20	92.6	X425041 - X4F0224-01	
EPA 200.8	Uranium	mg/L	0.0305	0.0302	0.0250	0.8	20	99.6	X425041 - X4F0224-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00208	0.00205	0.00200	1.5	20	104	X425106 - X4F0251-02	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0770	0.0820	0.100	6.3	11	77.0	X424161 - X4F0045-01	M2
EPA 335.4	Cyanide (total)	mg/L	0.0975	0.100	0.100	2.5	20	97.5	X424184 - X4F0175-01	
EPA 350.1	Ammonia as N	mg/L	1.01	0.991	1.00	1.9	20	101	X425016 - X4F0175-01	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	0.100	2.0	11	102	X426131 - X4F0175-01	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	68.4	69.2	3.00	1.1	20	90.6	X424154 - X4F0175-01	D2
EPA 300.0	Fluoride	mg/L	3.88	3.87	2.00	0.1	20	101	X424154 - X4F0175-01	
EPA 300.0	Nitrate as N	mg/L	3.41	3.40	2.00	0.3	20	104	X424154 - X4F0175-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.48	5.46	4.00	0.5	20	104	X424154 - X4F0175-01	
EPA 300.0	Nitrite as N	mg/L	2.08	2.06	2.00	0.8	20	104	X424154 - X4F0175-01	

SVL holds the following certifications:

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

Work order Report Page 16 of 22



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

Newmont - Cripple Creek & Victor					Project Name: Cripple Creek/Victor Water and Soil 2024				
Post Office Box 191					Work Order: X4F0175				
Victor, CO 80860					Reported: 28-Jun-24 14:29				

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	73.3	74.3	10.0	1.4	20	96.2	X424154 - X4F0175-01	D2



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0175**

Reported: 28-Jun-24 14:29

HOLDING TIME SUMMARY**ASTM D7237**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0175**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GVMW-8A	06/11/24	06/12/24	06/12/24	1	14	06/12/24	1	14	
GVMW-8B	06/11/24	06/12/24	06/12/24	1	14	06/12/24	1	14	
GVMW-7B	06/11/24	06/12/24	06/12/24	1	14	06/12/24	1	14	
GVMW-7A	06/11/24	06/12/24	06/12/24	1	14	06/12/24	1	14	
GVMW-4A	06/11/24	06/12/24	06/12/24	1	14	06/12/24	1	14	

HOLDING TIME SUMMARY**EPA 245.1**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0175**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GVMW-8A	06/11/24	06/12/24	06/25/24	14	28	06/25/24	14	28	
GVMW-8B	06/11/24	06/12/24	06/25/24	14	28	06/25/24	14	28	
GVMW-7B	06/11/24	06/12/24	06/25/24	14	28	06/25/24	14	28	
GVMW-7A	06/11/24	06/12/24	06/25/24	14	28	06/25/24	14	28	
GVMW-4A	06/11/24	06/12/24	06/25/24	14	28	06/25/24	14	28	



Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: X4F0175

Reported: 28-Jun-24 14:29

HOLDING TIME SUMMARY**EPA 300.0**

Laboratory: SVL Analytical, Inc.

SDG: X4F0175

Client: Newmont - Cripple Creek & Victor

Project: Cripple Creek/Victor Water and Soil 2024

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GVMW-8A	06/11/24 08:38	06/12/24	06/12/24 10:41	1.1	2.0	06/12/24 20:11	1.5	2.0	
GVMW-8A	06/11/24	06/12/24	06/12/24	1	28	06/12/24	2	28	
GVMW-8A	06/11/24	06/12/24	06/12/24	1	28	06/12/24	2	28	
GVMW-8B	06/11/24 09:21	06/12/24	06/12/24 10:41	1.1	2.0	06/12/24 22:24	1.6	2.0	
GVMW-8B	06/11/24	06/12/24	06/12/24	1	28	06/12/24	2	28	
GVMW-8B	06/11/24	06/12/24	06/12/24	1	28	06/12/24	2	28	
GVMW-7B	06/11/24 11:13	06/12/24	06/12/24 10:41	1.0	2.0	06/12/24 22:57	1.5	2.0	
GVMW-7B	06/11/24	06/12/24	06/12/24	1	28	06/12/24	2	28	
GVMW-7B	06/11/24	06/12/24	06/12/24	1	28	06/12/24	2	28	
GVMW-7A	06/11/24 12:05	06/12/24	06/12/24 10:41	1.0	2.0	06/12/24 23:30	1.5	2.0	
GVMW-7A	06/11/24 12:05	06/12/24	06/12/24 10:41	1.0	2.0	06/12/24 23:47	1.5	2.0	
GVMW-7A	06/11/24	06/12/24	06/12/24	1	28	06/12/24	2	28	
GVMW-4A	06/11/24 13:52	06/12/24	06/12/24 10:41	0.9	2.0	06/13/24 00:36	1.5	2.0	
GVMW-4A	06/11/24	06/12/24	06/12/24	1	28	06/13/24	2	28	
GVMW-4A	06/11/24	06/12/24	06/12/24	1	28	06/13/24	2	28	

HOLDING TIME SUMMARY**EPA 335.4**

Laboratory: SVL Analytical, Inc.

SDG: X4F0175

Client: Newmont - Cripple Creek & Victor

Project: Cripple Creek/Victor Water and Soil 2024

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GVMW-8A	06/11/24	06/12/24	06/13/24	2	14	06/14/24	3	14	
GVMW-8B	06/11/24	06/12/24	06/13/24	2	14	06/14/24	3	14	
GVMW-7B	06/11/24	06/12/24	06/13/24	2	14	06/14/24	3	14	
GVMW-7A	06/11/24	06/12/24	06/13/24	2	14	06/14/24	3	14	
GVMW-4A	06/11/24	06/12/24	06/13/24	2	14	06/14/24	3	14	

SVL holds the following certifications:

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

Work order Report Page 19 of 22

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0175**

Reported: 28-Jun-24 14:29

HOLDING TIME SUMMARY**EPA 350.1**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0175**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GVMW-8A	06/11/24	06/12/24	06/17/24	6	28	06/18/24	7	28	
GVMW-8B	06/11/24	06/12/24	06/17/24	6	28	06/18/24	7	28	
GVMW-7B	06/11/24	06/12/24	06/17/24	6	28	06/18/24	7	28	
GVMW-7A	06/11/24	06/12/24	06/17/24	6	28	06/18/24	7	28	
GVMW-4A	06/11/24	06/12/24	06/17/24	6	28	06/18/24	7	28	

HOLDING TIME SUMMARY**OIA 1677**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0175**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GVMW-8A	06/11/24	06/12/24	06/25/24	14	14	06/26/24	15	14	H1
GVMW-8B	06/11/24	06/12/24	06/25/24	14	14	06/26/24	15	14	H1
GVMW-7B	06/11/24	06/12/24	06/25/24	14	14	06/26/24	15	14	H1
GVMW-7A	06/11/24	06/12/24	06/25/24	14	14	06/26/24	15	14	H1
GVMW-4A	06/11/24	06/12/24	06/25/24	14	14	06/26/24	15	14	H1

HOLDING TIME SUMMARY**SM 2310 B**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0175**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GVMW-8A	06/11/24	06/12/24	06/20/24	9	14	06/21/24	10	14	
GVMW-8B	06/11/24	06/12/24	06/20/24	9	14	06/21/24	10	14	
GVMW-7B	06/11/24	06/12/24	06/20/24	9	14	06/21/24	10	14	
GVMW-7A	06/11/24	06/12/24	06/20/24	9	14	06/21/24	10	14	
GVMW-4A	06/11/24	06/12/24	06/20/24	9	14	06/21/24	10	14	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0175**

Reported: 28-Jun-24 14:29

HOLDING TIME SUMMARY**SM 2320 B**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0175**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GVMW-8A	06/11/24	06/12/24	06/18/24	7	14	06/18/24	7	14	
GVMW-8B	06/11/24	06/12/24	06/18/24	7	14	06/18/24	7	14	
GVMW-7B	06/11/24	06/12/24	06/18/24	7	14	06/18/24	7	14	
GVMW-7A	06/11/24	06/12/24	06/18/24	7	14	06/18/24	7	14	
GVMW-4A	06/11/24	06/12/24	06/18/24	7	14	06/18/24	7	14	

HOLDING TIME SUMMARY**SM 2540 C**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0175**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GVMW-8A		06/12/24		2	7		1.0		
GVMW-8B		06/12/24		2	7		1.0		
GVMW-7B		06/12/24		2	7		1.0		
GVMW-7A		06/12/24		2	7		1.0		
GVMW-4A		06/12/24		2	7		1.0		

HOLDING TIME SUMMARY**SM 2540 D**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0175**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GVMW-8A		06/12/24		2	7		1.0		
GVMW-8B		06/12/24		2	7		1.0		
GVMW-7B		06/12/24		2	7		1.0		
GVMW-7A		06/12/24		2	7		1.0		
GVMW-4A		06/12/24		2	7		1.0		

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0175**

Reported: 28-Jun-24 14:29

HOLDING TIME SUMMARY**SM 4500 H B**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0175**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GVMW-8A	06/11/24 08:38	06/12/24	06/18/24 08:51	7.1	0.0	06/18/24 16:11	7.4	0.0	H5
GVMW-8B	06/11/24 09:21	06/12/24	06/18/24 08:51	7.0	0.0	06/18/24 16:16	7.3	0.0	H5
GVMW-7B	06/11/24 11:13	06/12/24	06/18/24 08:51	6.9	0.0	06/18/24 16:21	7.3	0.0	H5
GVMW-7A	06/11/24 12:05	06/12/24	06/18/24 08:51	6.9	0.0	06/18/24 16:26	7.2	0.0	H5
GVMW-4A	06/11/24 13:52	06/12/24	06/18/24 08:51	6.8	0.0	06/18/24 16:32	7.2	0.0	H5

Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
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.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable



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Surface Water



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Newmont - Cripple Creek & Victor	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4D0271
Victor, CO 80860	Reported: 17-Apr-24 12:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GV-06	X4D0271-01	Surface Water	15-Apr-24 13:45	PB	16-Apr-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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Kellogg, ID 83837-0929
(208) 784-1258
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Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4D0271 Reported: 17-Apr-24 12:50

Client Sample ID: **GV-06**
SVL Sample ID: **X4D0271-01 (Surface Water)**

Sampled: 15-Apr-24 13:45
Received: 16-Apr-24
Sampled By: PB

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		X416038	MAC	04/16/24 19:17	U

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

EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X416074	SMU	04/17/24 11:52	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X416074	SMU	04/17/24 11:52	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X416074	SMU	04/17/24 11:52	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X416074	SMU	04/17/24 11:52	
EPA 200.8	Copper	0.00124	mg/L	0.00040	0.00036		X416074	SMU	04/17/24 11:52	
EPA 200.8	Lead	0.00091	mg/L	0.00020	0.00014		X416074	SMU	04/17/24 11:52	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X416074	SMU	04/17/24 11:52	
SM 2340 B	Hardness (as CaC03)	67.9	mg/L	2.31	0.543		N/A		04/16/24 10:24	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X416065	NMS	04/16/24 10:24	
EPA 200.7	Barium	0.0919	mg/L	0.0020	0.0019		X416065	NMS	04/16/24 10:24	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X416065	NMS	04/16/24 10:24	
EPA 200.7	Calcium	18.9	mg/L	0.100	0.069		X416065	NMS	04/16/24 10:24	
EPA 200.7	Iron	0.740	mg/L	0.100	0.056		X416065	NMS	04/16/24 10:24	
EPA 200.7	Magnesium	5.06	mg/L	0.500	0.090		X416065	NMS	04/16/24 10:24	
EPA 200.7	Manganese	1.89	mg/L	0.0080	0.0034		X416065	NMS	04/16/24 10:24	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X416065	NMS	04/16/24 10:24	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X416065	NMS	04/16/24 10:24	
EPA 200.7	Potassium	7.92	mg/L	0.50	0.18		X416065	NMS	04/16/24 10:24	
EPA 200.7	Sodium	4.22	mg/L	0.50	0.12		X416065	NMS	04/16/24 10:24	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X416065	NMS	04/16/24 10:24	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X416067	SMU	04/16/24 10:26	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X416067	SMU	04/16/24 10:26	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X416067	SMU	04/16/24 10:26	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X416067	SMU	04/16/24 10:26	
EPA 200.8	Copper	0.00088	mg/L	0.00040	0.00036		X416067	SMU	04/16/24 10:26	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X416067	SMU	04/16/24 10:26	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X416067	SMU	04/16/24 10:26	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X416067	SMU	04/16/24 10:26	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X416067	SMU	04/16/24 10:26	
EPA 200.8	Uranium	0.000533	mg/L	0.000100	0.000052		X416067	SMU	04/16/24 10:26	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X416016	MAC	04/16/24 18:24	

Classical Chemistry Parameters

EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X416073	DD	04/16/24 15:04	
SM 2320 B	Total Alkalinity	45.0	mg/L as CaCO3	1.0			X416068	MWD	04/16/24 14:56	
SM 2320 B	Bicarbonate	45.0	mg/L as CaCO3	1.0			X416068	MWD	04/16/24 14:56	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X416068	MWD	04/16/24 14:56	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X416068	MWD	04/16/24 14:56	
SM 4500 H B	pH @19.9°C	7.3	pH Units				X416068	MWD	04/16/24 14:56	H5
SM 4500 S D	Sulfide	< 0.100	mg/L	0.100	0.040	2	X416054	MCM	04/16/24 17:03	D1
SM 4500-O-G	Dissolved Oxygen	5.6	mg/L	0.1			X416072	TJL	04/16/24 14:10	H3,H5

Filtered Classical Chemistry Parameters

Calculation	Chromium(III)-Dissolved	< 0.00100	mg/L	0.00100	0.000170		N/A		04/16/24 10:26	



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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: X4D0271
Reported: 17-Apr-24 12:50

Client Sample ID: **GV-06**
SVL Sample ID: **X4D0271-01 (Surface Water)**

Sampled: 15-Apr-24 13:45
Received: 16-Apr-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	5.13	mg/L	0.20	0.02		X416066	RS	04/16/24 13:25	
EPA 300.0	Fluoride	0.499	mg/L	0.100	0.017		X416066	RS	04/16/24 13:25	
EPA 300.0	Nitrate as N	0.722	mg/L	0.050	0.013		X416066	RS	04/16/24 13:25	
EPA 300.0	Nitrate+Nitrite as N	0.733	mg/L	0.100	0.044		X416066	RS	04/16/24 13:25	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X416066	RS	04/16/24 13:25	
EPA 300.0	Sulfate as SO4	18.0	mg/L	0.30	0.18		X416066	RS	04/16/24 13:25	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1.85 meq/L Anion Sum: 1.50 meq/L C/A Balance: 10.50 %

This data is preliminary and subject to change.

DRAFT REPORT



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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: X4D0271
Reported: 17-Apr-24 12:50

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	X416038	16-Apr-24	U

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

EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X416074	17-Apr-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X416074	17-Apr-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X416074	17-Apr-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X416074	17-Apr-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X416074	17-Apr-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X416074	17-Apr-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X416074	17-Apr-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X416065	16-Apr-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X416065	16-Apr-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X416065	16-Apr-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X416065	16-Apr-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X416065	16-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X416065	16-Apr-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X416065	16-Apr-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X416065	16-Apr-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X416065	16-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X416065	16-Apr-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X416065	16-Apr-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X416065	16-Apr-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X416067	16-Apr-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X416067	16-Apr-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X416067	16-Apr-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X416067	16-Apr-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X416067	16-Apr-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X416067	16-Apr-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X416067	16-Apr-24	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X416067	16-Apr-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X416067	16-Apr-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X416067	16-Apr-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X416016	16-Apr-24	

Classical Chemistry Parameters

EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X416073	16-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X416068	16-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X416068	16-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X416068	16-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X416068	16-Apr-24	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X416054	16-Apr-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X416066	16-Apr-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X416066	16-Apr-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X416066	16-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X416066	16-Apr-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X416066	16-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X416066	16-Apr-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: X4D0271
Reported: 17-Apr-24 12:50

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	0.00213	0.00200	107	85 - 115	X416038	16-Apr-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.8	Antimony	mg/L	0.0260	0.0250	104	85 - 115	X416074	17-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0246	0.0250	98.3	85 - 115	X416074	17-Apr-24	
EPA 200.8	Cadmium	mg/L	0.0247	0.0250	98.8	85 - 115	X416074	17-Apr-24	
EPA 200.8	Chromium	mg/L	0.0248	0.0250	99.3	85 - 115	X416074	17-Apr-24	
EPA 200.8	Copper	mg/L	0.0250	0.0250	99.8	85 - 115	X416074	17-Apr-24	
EPA 200.8	Lead	mg/L	0.0247	0.0250	98.7	85 - 115	X416074	17-Apr-24	
EPA 200.8	Selenium	mg/L	0.0241	0.0250	96.5	85 - 115	X416074	17-Apr-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.963	1.00	96.3	85 - 115	X416065	16-Apr-24	
EPA 200.7	Barium	mg/L	0.992	1.00	99.2	85 - 115	X416065	16-Apr-24	
EPA 200.7	Beryllium	mg/L	0.968	1.00	96.8	85 - 115	X416065	16-Apr-24	
EPA 200.7	Calcium	mg/L	19.6	20.0	98.0	85 - 115	X416065	16-Apr-24	
EPA 200.7	Iron	mg/L	9.89	10.0	98.9	85 - 115	X416065	16-Apr-24	
EPA 200.7	Magnesium	mg/L	19.8	20.0	98.9	85 - 115	X416065	16-Apr-24	
EPA 200.7	Manganese	mg/L	0.971	1.00	97.1	85 - 115	X416065	16-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.993	1.00	99.3	85 - 115	X416065	16-Apr-24	
EPA 200.7	Nickel	mg/L	0.966	1.00	96.6	85 - 115	X416065	16-Apr-24	
EPA 200.7	Potassium	mg/L	19.8	20.0	99.0	85 - 115	X416065	16-Apr-24	
EPA 200.7	Sodium	mg/L	18.7	19.0	98.3	85 - 115	X416065	16-Apr-24	
EPA 200.7	Zinc	mg/L	0.977	1.00	97.7	85 - 115	X416065	16-Apr-24	
EPA 200.8	Antimony	mg/L	0.0236	0.0250	94.4	85 - 115	X416067	16-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0233	0.0250	93.3	85 - 115	X416067	16-Apr-24	
EPA 200.8	Cadmium	mg/L	0.0233	0.0250	93.3	85 - 115	X416067	16-Apr-24	
EPA 200.8	Chromium	mg/L	0.0254	0.0250	102	85 - 115	X416067	16-Apr-24	
EPA 200.8	Copper	mg/L	0.0243	0.0250	97.0	85 - 115	X416067	16-Apr-24	
EPA 200.8	Lead	mg/L	0.0251	0.0250	101	85 - 115	X416067	16-Apr-24	
EPA 200.8	Selenium	mg/L	0.0216	0.0250	86.3	85 - 115	X416067	16-Apr-24	
EPA 200.8	Silver	mg/L	0.0256	0.0250	102	85 - 115	X416067	16-Apr-24	
EPA 200.8	Thallium	mg/L	0.0253	0.0250	101	85 - 115	X416067	16-Apr-24	
EPA 200.8	Uranium	mg/L	0.0250	0.0250	100	85 - 115	X416067	16-Apr-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00195	0.00200	97.3	85 - 115	X416016	16-Apr-24	
Classical Chemistry Parameters									
EPA 335.4	Cyanide (total)	mg/L	0.106	0.100	106	90 - 110	X416073	16-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	96.4 - 105	X416068	16-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	96.4 - 105	X416068	16-Apr-24	
SM 4500 S D	Sulfide	mg/L	0.478	0.500	95.6	85 - 115	X416054	16-Apr-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.97	3.00	99.0	90 - 110	X416066	16-Apr-24	
EPA 300.0	Fluoride	mg/L	1.93	2.00	96.6	90 - 110	X416066	16-Apr-24	
EPA 300.0	Nitrate as N	mg/L	1.97	2.00	98.7	90 - 110	X416066	16-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.45	4.50	98.8	90 - 110	X416066	16-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.47	2.50	98.9	90 - 110	X416066	16-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	10.3	10.0	103	90 - 110	X416066	16-Apr-24	

SVL holds the following certifications:

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

Work order Report Page 5 of 9



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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: **X4D0271**
Reported: 17-Apr-24 12:50

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X416068 - X4D0206-02	16-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X416068 - X4D0206-02	16-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X416068 - X4D0206-02	16-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X416068 - X4D0206-02	16-Apr-24	
SM 4500 H B	pH @19.2°C	pH Units	2.9	2.9	0.3	20	X416068 - X4D0206-02	16-Apr-24	
SM 4500-O-G	Dissolved Oxygen	mg/L	5.7	5.6	1.8	20	X416072 - X4D0271-01	16-Apr-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	0.00200	<0.000093	0.00200	100	70 - 130	X416038 - X4D0209-01	16-Apr-24	
EPA 245.1	Mercury	mg/L	0.00202	<0.000093	0.00200	101	70 - 130	X416038 - X4D0209-10	16-Apr-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.8	Antimony	mg/L	0.0482	0.0222	0.0250	104	70 - 130	X416074 - X4D0272-01	17-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0257	<0.00100	0.0250	102	70 - 130	X416074 - X4D0272-01	17-Apr-24	
EPA 200.8	Cadmium	mg/L	0.0231	<0.000100	0.0250	92.4	70 - 130	X416074 - X4D0272-01	17-Apr-24	
EPA 200.8	Chromium	mg/L	0.0258	<0.00100	0.0250	103	70 - 130	X416074 - X4D0272-01	17-Apr-24	
EPA 200.8	Copper	mg/L	0.0256	0.00189	0.0250	94.8	70 - 130	X416074 - X4D0272-01	17-Apr-24	
EPA 200.8	Lead	mg/L	0.0264	0.00144	0.0250	99.8	70 - 130	X416074 - X4D0272-01	17-Apr-24	
EPA 200.8	Selenium	mg/L	0.0243	<0.00100	0.0250	96.1	70 - 130	X416074 - X4D0272-01	17-Apr-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.06	<0.080	1.00	99.2	70 - 130	X416065 - X4D0271-01	16-Apr-24	
EPA 200.7	Barium	mg/L	1.12	0.0919	1.00	103	70 - 130	X416065 - X4D0271-01	16-Apr-24	
EPA 200.7	Beryllium	mg/L	0.983	<0.00200	1.00	98.3	70 - 130	X416065 - X4D0271-01	16-Apr-24	
EPA 200.7	Calcium	mg/L	38.8	18.9	20.0	99.9	70 - 130	X416065 - X4D0271-01	16-Apr-24	
EPA 200.7	Iron	mg/L	10.8	0.740	10.0	101	70 - 130	X416065 - X4D0271-01	16-Apr-24	
EPA 200.7	Magnesium	mg/L	25.9	5.06	20.0	104	70 - 130	X416065 - X4D0271-01	16-Apr-24	
EPA 200.7	Manganese	mg/L	2.82	1.89	1.00	93.5	70 - 130	X416065 - X4D0271-01	16-Apr-24	
EPA 200.7	Molybdenum	mg/L	1.02	<0.0080	1.00	102	70 - 130	X416065 - X4D0271-01	16-Apr-24	
EPA 200.7	Nickel	mg/L	1.01	<0.0100	1.00	101	70 - 130	X416065 - X4D0271-01	16-Apr-24	
EPA 200.7	Potassium	mg/L	27.9	7.92	20.0	99.9	70 - 130	X416065 - X4D0271-01	16-Apr-24	
EPA 200.7	Sodium	mg/L	23.3	4.22	19.0	100	70 - 130	X416065 - X4D0271-01	16-Apr-24	
EPA 200.7	Zinc	mg/L	1.03	<0.0100	1.00	102	70 - 130	X416065 - X4D0271-01	16-Apr-24	
EPA 200.8	Antimony	mg/L	0.0287	<0.00100	0.0250	115	70 - 130	X416067 - X4D0271-01	16-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0291	<0.00100	0.0250	114	70 - 130	X416067 - X4D0271-01	16-Apr-24	
EPA 200.8	Cadmium	mg/L	0.0278	<0.000100	0.0250	111	70 - 130	X416067 - X4D0271-01	16-Apr-24	
EPA 200.8	Chromium	mg/L	0.0282	<0.00100	0.0250	110	70 - 130	X416067 - X4D0271-01	16-Apr-24	
EPA 200.8	Copper	mg/L	0.0276	0.00088	0.0250	107	70 - 130	X416067 - X4D0271-01	16-Apr-24	
EPA 200.8	Lead	mg/L	0.0279	<0.00020	0.0250	111	70 - 130	X416067 - X4D0271-01	16-Apr-24	
EPA 200.8	Selenium	mg/L	0.0299	<0.00100	0.0250	118	70 - 130	X416067 - X4D0271-01	16-Apr-24	
EPA 200.8	Silver	mg/L	0.0265	<0.00008	0.0250	106	70 - 130	X416067 - X4D0271-01	16-Apr-24	
EPA 200.8	Thallium	mg/L	0.0279	<0.000200	0.0250	111	70 - 130	X416067 - X4D0271-01	16-Apr-24	
EPA 200.8	Uranium	mg/L	0.0293	0.000533	0.0250	115	70 - 130	X416067 - X4D0271-01	16-Apr-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00208	<0.000200	0.00200	104	70 - 130	X416016 - X4D0140-01	16-Apr-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: **X4D0271**
Reported: 17-Apr-24 12:50

Quality Control - MATRIX SPIKE Data (Continued)

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

Metals (Filtered) (Continued)

EPA 245.1	Mercury	mg/L	0.00466	0.00269	0.00200	98.4	70 - 130	X416016 - X4D0141-01	16-Apr-24	

Classical Chemistry Parameters

EPA 335.4	Cyanide (total)	mg/L	0.109	<0.0050	0.100	109	90 - 110	X416073 - X4D0271-01	16-Apr-24	
SM 4500 S D	Sulfide	mg/L	0.212	<0.050	0.200	106	75 - 125	X416054 - X4D0248-06	16-Apr-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	8.06	5.13	3.00	97.5	90 - 110	X416066 - X4D0271-01	16-Apr-24	
EPA 300.0	Chloride	mg/L	4.70	1.76	3.00	98.0	90 - 110	X416066 - X4D0297-01	16-Apr-24	
EPA 300.0	Fluoride	mg/L	2.45	0.499	2.00	97.5	90 - 110	X416066 - X4D0271-01	16-Apr-24	
EPA 300.0	Fluoride	mg/L	2.04	<0.100	2.00	97.2	90 - 110	X416066 - X4D0297-01	16-Apr-24	
EPA 300.0	Nitrate as N	mg/L	2.68	0.722	2.00	98.1	90 - 110	X416066 - X4D0271-01	16-Apr-24	
EPA 300.0	Nitrate as N	mg/L	2.01	0.064	2.00	97.4	90 - 110	X416066 - X4D0297-01	16-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.69	0.733	4.00	98.8	90 - 110	X416066 - X4D0271-01	16-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.00	<0.100	4.00	98.4	90 - 110	X416066 - X4D0297-01	16-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.00	<0.050	2.00	100	90 - 110	X416066 - X4D0271-01	16-Apr-24	
EPA 300.0	Nitrite as N	mg/L	1.99	<0.050	2.00	99.6	90 - 110	X416066 - X4D0297-01	16-Apr-24	
EPA 300.0	Sulfate as SO ₄	mg/L	28.1	18.0	10.0	101	90 - 110	X416066 - X4D0271-01	16-Apr-24	
EPA 300.0	Sulfate as SO ₄	mg/L	13.6	3.39	10.0	102	90 - 110	X416066 - X4D0297-01	16-Apr-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	0.00203	0.00200	0.00200	1.1	20	101	X416038 - X4D0209-01	

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

EPA 200.8	Antimony	mg/L	0.0482	0.0482	0.0250	0.1	20	104	X416074 - X4D0272-01	
EPA 200.8	Arsenic	mg/L	0.0261	0.0257	0.0250	1.4	20	103	X416074 - X4D0272-01	
EPA 200.8	Cadmium	mg/L	0.0235	0.0231	0.0250	1.5	20	93.9	X416074 - X4D0272-01	
EPA 200.8	Chromium	mg/L	0.0263	0.0258	0.0250	2.0	20	105	X416074 - X4D0272-01	
EPA 200.8	Copper	mg/L	0.0262	0.0256	0.0250	2.3	20	97.2	X416074 - X4D0272-01	
EPA 200.8	Lead	mg/L	0.0266	0.0264	0.0250	0.9	20	101	X416074 - X4D0272-01	
EPA 200.8	Selenium	mg/L	0.0247	0.0243	0.0250	1.5	20	97.6	X416074 - X4D0272-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.03	1.06	1.00	2.6	20	96.6	X416065 - X4D0271-01	
EPA 200.7	Barium	mg/L	1.08	1.12	1.00	4.0	20	98.4	X416065 - X4D0271-01	
EPA 200.7	Beryllium	mg/L	0.962	0.983	1.00	2.1	20	96.2	X416065 - X4D0271-01	
EPA 200.7	Calcium	mg/L	37.8	38.8	20.0	2.8	20	94.5	X416065 - X4D0271-01	
EPA 200.7	Iron	mg/L	10.5	10.8	10.0	3.4	20	97.4	X416065 - X4D0271-01	
EPA 200.7	Magnesium	mg/L	25.0	25.9	20.0	3.5	20	99.7	X416065 - X4D0271-01	
EPA 200.7	Manganese	mg/L	2.81	2.82	1.00	0.4	20	92.4	X416065 - X4D0271-01	
EPA 200.7	Molybdenum	mg/L	0.993	1.02	1.00	2.6	20	98.9	X416065 - X4D0271-01	
EPA 200.7	Nickel	mg/L	0.980	1.01	1.00	3.2	20	98.0	X416065 - X4D0271-01	
EPA 200.7	Potassium	mg/L	27.2	27.9	20.0	2.5	20	96.4	X416065 - X4D0271-01	
EPA 200.7	Sodium	mg/L	22.5	23.3	19.0	3.3	20	96.4	X416065 - X4D0271-01	
EPA 200.7	Zinc	mg/L	0.999	1.03	1.00	2.9	20	99.3	X416065 - X4D0271-01	
EPA 200.8	Antimony	mg/L	0.0277	0.0287	0.0250	3.5	20	111	X416067 - X4D0271-01	
EPA 200.8	Arsenic	mg/L	0.0286	0.0291	0.0250	1.8	20	112	X416067 - X4D0271-01	
EPA 200.8	Cadmium	mg/L	0.0269	0.0278	0.0250	3.2	20	107	X416067 - X4D0271-01	
EPA 200.8	Chromium	mg/L	0.0274	0.0282	0.0250	3.1	20	107	X416067 - X4D0271-01	



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Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0271**

Reported: 17-Apr-24 12:50

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)										
Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Copper	mg/L	0.0268	0.0276	0.0250	2.8	20	104	X416067 - X4D0271-01	
EPA 200.8	Lead	mg/L	0.0264	0.0279	0.0250	5.4	20	105	X416067 - X4D0271-01	
EPA 200.8	Selenium	mg/L	0.0293	0.0299	0.0250	1.9	20	116	X416067 - X4D0271-01	
EPA 200.8	Silver	mg/L	0.0258	0.0265	0.0250	2.7	20	103	X416067 - X4D0271-01	
EPA 200.8	Thallium	mg/L	0.0264	0.0279	0.0250	5.5	20	105	X416067 - X4D0271-01	
EPA 200.8	Uranium	mg/L	0.0278	0.0293	0.0250	4.9	20	109	X416067 - X4D0271-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00210	0.00208	0.00200	0.8	20	105	X416016 - X4D0140-01	
Classical Chemistry Parameters										
EPA 335.4	Cyanide (total)	mg/L	0.106	0.109	0.100	2.8	20	106	X416073 - X4D0271-01	
SM 4500 S D	Sulfide	mg/L	0.214	0.212	0.200	0.9	20	107	X416054 - X4D0248-06	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	8.09	8.06	3.00	0.5	20	98.7	X416066 - X4D0271-01	
EPA 300.0	Fluoride	mg/L	2.47	2.45	2.00	0.8	20	98.5	X416066 - X4D0271-01	
EPA 300.0	Nitrate as N	mg/L	2.70	2.68	2.00	0.6	20	99.0	X416066 - X4D0271-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.74	4.69	4.00	1.1	20	100	X416066 - X4D0271-01	
EPA 300.0	Nitrite as N	mg/L	2.04	2.00	2.00	1.8	20	102	X416066 - X4D0271-01	
EPA 300.0	Sulfate as SO4	mg/L	28.1	28.1	10.0	0.0	20	101	X416066 - X4D0271-01	



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Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0271**

Reported: 17-Apr-24 12:50

Notes and Definitions

D1	Sample required dilution due to matrix.
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.
U	Less than 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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 Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0271**

Reported: 17-Apr-24 12:50

Total / Dissolved Check

X4D0271-01

GV-06

Analyte	Method	MDL	MRL	Total	Dissolved	RPD
Arsenic	EPA 200.8	0.00021	0.00100	ND U	ND U	--
Cadmium	EPA 200.8	0.000063	0.000100	ND U	ND U	--
Chromium	EPA 200.8	0.00017	0.00100	ND U	ND U	--
Copper	EPA 200.8	0.00036	0.00040	0.00124	0.00088	34.8
Lead	EPA 200.8	0.00014	0.00020	0.00091	ND U	136.4
Selenium	EPA 200.8	0.00024	0.00100	ND U	ND U	--

Displaying only results where T/D analytes are measured and at least one result is not ND.

Summary of major Cation/Anion contributions

X4D0271-01	10.50%	meq/L Cations or Anions	Cations:1.85	Anions: 1.50	Running Totals
		Calcium	D 0.94		0.95
		Chloride		0.14	0.14
		Fluoride		0.03	0.17
		Iron	D 0.03		0.98
		Magnesium	D 0.42		1.39
		Manganese	D 0.07		1.46
		Nitrate as N		0.05	0.22
		Nitrate+Nitrite as N		0.05	0.27
		Potassium	D 0.20		1.66
		Sodium	D 0.18		1.85
		Sulfate as SO4		0.37	0.65
		Total Alkalinity		0.90	1.55



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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0308**

Reported: 28-May-24 13:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GV-02	X4D0308-01	Surface Water	16-Apr-24 11:00	PB	17-Apr-2024	
GV-03	X4D0308-02	Surface Water	16-Apr-24 10:35	PB	17-Apr-2024	
T-2	X4D0308-03	Surface Water	16-Apr-24 14:20	PB	17-Apr-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.

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

Case Narrative: X4D0308

5/28/24 KWS - This report is reissued to report Chromium III results

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: X4D0308
Reported: 28-May-24 13:20

Client Sample ID: **GV-02**

SVL Sample ID: **X4D0308-01 (Surface Water)**

Sampled: 16-Apr-24 11:00
Received: 17-Apr-24
Sampled By: PB

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		X417041	MAC	04/23/24 13:59	U

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

EPA 200.7	Barium	0.0411	mg/L	0.0020	0.0019		X417188	NMS	05/01/24 11:09	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X417188	NMS	05/01/24 11:09	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X417188	NMS	05/01/24 11:09	
EPA 200.7	Calcium	41.1	mg/L	0.100	0.069		X417188	NMS	05/01/24 11:09	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X417188	NMS	05/01/24 11:09	
EPA 200.7	Iron	0.194	mg/L	0.100	0.056		X417188	NMS	05/01/24 11:09	
EPA 200.7	Magnesium	11.8	mg/L	0.500	0.090		X417188	NMS	05/01/24 11:09	
EPA 200.7	Manganese	3.28	mg/L	0.0080	0.0034		X417188	NMS	05/01/24 11:09	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X417188	NMS	05/01/24 11:09	
EPA 200.7	Nickel	0.0323	mg/L	0.0100	0.0048		X417188	NMS	05/01/24 11:09	
EPA 200.7	Phosphorus	0.076	mg/L	0.050	0.013		X417188	NMS	05/01/24 11:09	
EPA 200.7	Potassium	13.3	mg/L	0.50	0.18		X417188	NMS	05/01/24 11:09	
EPA 200.7	Sodium	7.94	mg/L	0.50	0.12		X417188	NMS	05/01/24 11:09	
EPA 200.7	Zinc	0.747	mg/L	0.0100	0.0054		X417188	NMS	05/01/24 11:09	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X417191	SMU	04/30/24 14:39	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X417191	SMU	04/30/24 14:39	
EPA 200.8	Cadmium	0.00317	mg/L	0.000100	0.000063		X417191	SMU	04/30/24 14:39	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X417191	SMU	04/30/24 14:39	
EPA 200.8	Copper	0.00196	mg/L	0.00040	0.00036		X417191	SMU	04/30/24 14:39	B1
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X417191	SMU	04/30/24 14:39	B10
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X417191	SMU	04/30/24 14:39	
SM 2340 B	Hardness (as CaC03)	152	mg/L	2.31	0.543		N/A		04/23/24 15:43	

Metals (Dissolved)

EPA 200.7	Aluminum	0.882	mg/L	0.080	0.054		X416170	NMS	04/23/24 15:43	
EPA 200.7	Barium	0.0406	mg/L	0.0020	0.0019		X416170	NMS	04/23/24 15:43	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X416170	NMS	04/23/24 15:43	
EPA 200.7	Calcium	41.3	mg/L	0.100	0.069		X416170	NMS	04/23/24 15:43	
EPA 200.7	Iron	0.155	mg/L	0.100	0.056		X416170	NMS	04/23/24 15:43	
EPA 200.7	Magnesium	12.5	mg/L	0.500	0.090		X416170	NMS	04/23/24 15:43	
EPA 200.7	Manganese	3.21	mg/L	0.0080	0.0034		X416170	NMS	04/23/24 15:43	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X416170	NMS	04/23/24 15:43	
EPA 200.7	Nickel	0.0375	mg/L	0.0100	0.0048		X416170	NMS	04/23/24 15:43	
EPA 200.7	Potassium	13.1	mg/L	0.50	0.18		X416170	NMS	04/23/24 15:43	
EPA 200.7	Sodium	8.24	mg/L	0.50	0.12		X416170	NMS	04/23/24 15:43	
EPA 200.7	Zinc	0.748	mg/L	0.0100	0.0054		X416170	NMS	04/23/24 15:43	
EPA 200.8	Antimony	< 0.00200	mg/L	0.00200	0.00144	2	X416272	SMU	04/29/24 16:17	D1
EPA 200.8	Arsenic	< 0.00200	mg/L	0.00200	0.00042	2	X416272	SMU	04/29/24 16:17	D1
EPA 200.8	Cadmium	0.00288	mg/L	0.000200	0.000126	2	X416272	SMU	04/29/24 16:17	D1
EPA 200.8	Chromium	< 0.00200	mg/L	0.00200	0.00034	2	X416272	SMU	04/29/24 16:17	D1
EPA 200.8	Copper	0.00152	mg/L	0.00080	0.00072	2	X416272	SMU	04/29/24 16:17	D1
EPA 200.8	Lead	< 0.00040	mg/L	0.00040	0.00028	2	X416272	SMU	04/29/24 16:17	D1
EPA 200.8	Selenium	< 0.00200	mg/L	0.00200	0.00048	2	X416272	SMU	04/29/24 16:17	D1
EPA 200.8	Silver	< 0.000160	mg/L	0.000160	0.000122	2	X416272	SMU	04/29/24 16:17	D1
EPA 200.8	Thallium	< 0.000400	mg/L	0.000400	0.000160	2	X416272	SMU	04/29/24 16:17	D1
EPA 200.8	Uranium	< 0.000200	mg/L	0.000200	0.000104	2	X416272	SMU	04/29/24 16:17	D1



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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: X4D0308 Reported: 28-May-24 13:20

Client Sample ID: **GV-02**
SVL Sample ID: **X4D0308-01 (Surface Water)**

Sampled: 16-Apr-24 11:00
Received: 17-Apr-24
Sampled By: PB

Sample Report Page 2 of 2

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		X417003	MAC	04/23/24 15:48	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X418026	DD	04/29/24 11:52	
Calculation	Chromium(III)	< 0.0160	mg/L	0.0160	0.00580		N/A		05/01/24 11:09	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X417022	DD	04/23/24 15:35	
EPA 350.1	Ammonia as N	0.088	mg/L	0.030	0.013		X416195	DD	04/24/24 10:41	
EPA 351.2	TKN	1.02	mg/L	0.50	0.31		X416253	DD	04/22/24 10:40	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X416130	DD	04/19/24 13:55	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X416151	MWD	04/18/24 08:48	
SM 2320 B	Total Alkalinity	3.0	mg/L as CaCO3	1.0			X416119	MWD	04/17/24 15:21	
SM 2320 B	Bicarbonate	3.0	mg/L as CaCO3	1.0			X416119	MWD	04/17/24 15:21	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X416119	MWD	04/17/24 15:21	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X416119	MWD	04/17/24 15:21	
SM 2540 C	Total Diss. Solids	272	mg/L	10			X416142	TJL	04/19/24 14:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X416143	TJL	04/22/24 16:30	
SM 4500 H B	pH @19.9°C	5.8	pH Units				X416119	MWD	04/17/24 15:21	H5
SM 4500 S D	Sulfide	< 0.100	mg/L	0.100	0.040	2	X416245	MCM	04/22/24 17:23	D1
SM 4500-O-G	Dissolved Oxygen	6.2	mg/L	0.1			X418017	TJL	04/29/24 14:15	H3,H5

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	< 0.0100	mg/L	0.0100	0.0038	2	X416103	MCM	04/17/24 17:00	D1

Filtered Classical Chemistry Parameters

Calculation	Chromium(III)-Dissolved	< 0.0120	mg/L	0.0120	0.00414		N/A		04/29/24 16:17	

Anions by Ion Chromatography

EPA 300.0	Chloride	11.7	mg/L	0.20	0.02		X416128	RS	04/17/24 12:29	
EPA 300.0	Fluoride	1.85	mg/L	0.100	0.017		X416128	RS	04/17/24 12:29	
EPA 300.0	Nitrate as N	0.825	mg/L	0.050	0.013		X416128	RS	04/17/24 12:29	
EPA 300.0	Nitrate+Nitrite as N	0.825	mg/L	0.100	0.044		X416128	RS	04/17/24 12:29	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X416128	RS	04/17/24 12:29	
EPA 300.0	Sulfate as SO4	164	mg/L	3.00	1.80	10	X416128	RS	04/17/24 12:47	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.95 meq/L	Anion Sum: 3.96 meq/L	C/A Balance: -0.10 %	Calculated TDS: 258	TDS/cTDS: 1.06

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

Kathryn Salter

Kathryn Salter
Project Manager



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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: X4D0308
Reported: 28-May-24 13:20

Client Sample ID: **GV-03**

SVL Sample ID: **X4D0308-02 (Surface Water)**

Sampled: 16-Apr-24 10:35
Received: 17-Apr-24
Sampled By: PB

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		X417041	MAC	04/23/24 14:01	U

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

EPA 200.7	Barium	0.0628	mg/L	0.0020	0.0019		X417188	NMS	05/01/24 11:13	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X417188	NMS	05/01/24 11:13	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X417188	NMS	05/01/24 11:13	
EPA 200.7	Calcium	18.1	mg/L	0.100	0.069		X417188	NMS	05/01/24 11:13	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X417188	NMS	05/01/24 11:13	
EPA 200.7	Iron	0.364	mg/L	0.100	0.056		X417188	NMS	05/01/24 11:13	
EPA 200.7	Magnesium	5.77	mg/L	0.500	0.090		X417188	NMS	05/01/24 11:13	
EPA 200.7	Manganese	0.691	mg/L	0.0080	0.0034		X417188	NMS	05/01/24 11:13	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X417188	NMS	05/01/24 11:13	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X417188	NMS	05/01/24 11:13	
EPA 200.7	Phosphorus	0.186	mg/L	0.050	0.013		X417188	NMS	05/01/24 11:13	
EPA 200.7	Potassium	16.2	mg/L	0.50	0.18		X417188	NMS	05/01/24 11:13	
EPA 200.7	Sodium	3.49	mg/L	0.50	0.12		X417188	NMS	05/01/24 11:13	
EPA 200.7	Zinc	0.114	mg/L	0.0100	0.0054		X417188	NMS	05/01/24 11:13	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X417191	SMU	04/30/24 14:42	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X417191	SMU	04/30/24 14:42	
EPA 200.8	Cadmium	0.000852	mg/L	0.000100	0.000063		X417191	SMU	04/30/24 14:42	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X417191	SMU	04/30/24 14:42	
EPA 200.8	Copper	0.00298	mg/L	0.00040	0.00036		X417191	SMU	04/30/24 14:42	B1
EPA 200.8	Lead	0.00051	mg/L	0.00020	0.00014		X417191	SMU	04/30/24 14:42	B10
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X417191	SMU	04/30/24 14:42	
SM 2340 B	Hardness (as CaC03)	69.9	mg/L	2.31	0.543		N/A		05/01/24 11:13	

Metals (Dissolved)

EPA 200.7	Aluminum	0.139	mg/L	0.080	0.054		X416170	NMS	04/23/24 15:47	
EPA 200.7	Barium	0.0526	mg/L	0.0020	0.0019		X416170	NMS	04/23/24 15:47	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X416170	NMS	04/23/24 15:47	
EPA 200.7	Calcium	17.8	mg/L	0.100	0.069		X416170	NMS	04/23/24 15:47	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X416170	NMS	04/23/24 15:47	
EPA 200.7	Magnesium	6.00	mg/L	0.500	0.090		X416170	NMS	04/23/24 15:47	
EPA 200.7	Manganese	0.645	mg/L	0.0080	0.0034		X416170	NMS	04/23/24 15:47	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X416170	NMS	04/23/24 15:47	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X416170	NMS	04/23/24 15:47	
EPA 200.7	Potassium	15.4	mg/L	0.50	0.18		X416170	NMS	04/23/24 15:47	
EPA 200.7	Sodium	3.51	mg/L	0.50	0.12		X416170	NMS	04/23/24 15:47	
EPA 200.7	Zinc	0.107	mg/L	0.0100	0.0054		X416170	NMS	04/23/24 15:47	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X416272	SMU	04/29/24 16:07	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X416272	SMU	04/29/24 16:07	
EPA 200.8	Cadmium	0.000746	mg/L	0.000100	0.000063		X416272	SMU	04/29/24 16:07	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X416272	SMU	04/29/24 16:07	
EPA 200.8	Copper	0.00212	mg/L	0.00040	0.00036		X416272	SMU	04/29/24 16:07	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X416272	SMU	04/29/24 16:07	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X416272	SMU	04/29/24 16:07	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X416272	SMU	04/29/24 16:07	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X416272	SMU	04/29/24 16:07	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X416272	SMU	04/29/24 16:07	



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Newmont - Cripple Creek & Victor	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4D0308
Victor, CO 80860	Reported: 28-May-24 13:20

Client Sample ID: **GV-03**

SVL Sample ID: **X4D0308-02 (Surface Water)**

Sample Report Page 2 of 2

Sampled: 16-Apr-24 10:35
Received: 17-Apr-24
Sampled By: PB

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		X417003	MAC	04/23/24 15:50	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X418026	DD	04/29/24 11:54	
Calculation	Chromium(III)	< 0.0160	mg/L	0.0160	0.00580		N/A		05/01/24 11:13	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X417022	DD	04/23/24 15:37	
EPA 350.1	Ammonia as N	0.105	mg/L	0.030	0.013		X416195	DD	04/24/24 10:43	
EPA 351.2	TKN	1.18	mg/L	0.50	0.31		X416253	DD	04/22/24 11:32	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X416130	DD	04/19/24 13:57	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X416151	MWD	04/18/24 08:48	
SM 2320 B	Total Alkalinity	7.2	mg/L as CaCO3	1.0			X416119	MWD	04/17/24 15:26	
SM 2320 B	Bicarbonate	7.2	mg/L as CaCO3	1.0			X416119	MWD	04/17/24 15:26	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X416119	MWD	04/17/24 15:26	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X416119	MWD	04/17/24 15:26	
SM 2540 C	Total Diss. Solids	130	mg/L	10			X416142	TJL	04/19/24 14:50	
SM 2540 D	Total Susp. Solids	5.0	mg/L	5.0			X416143	TJL	04/22/24 16:30	
SM 4500 H B	pH @20.0°C	6.3	pH Units				X416119	MWD	04/17/24 15:26	H5
SM 4500 S D	Sulfide	< 0.100	mg/L	0.100	0.040	2	X416245	MCM	04/22/24 17:25	D1
SM 4500-O-G	Dissolved Oxygen	5.9	mg/L	0.1			X418017	TJL	04/29/24 14:15	H3,H5

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	< 0.0100	mg/L	0.0100	0.0038	2	X416103	MCM	04/17/24 17:00	D1

Filtered Classical Chemistry Parameters

Calculation	Chromium(III)-Dissolved	< 0.0110	mg/L	0.0110	0.00397		N/A		04/29/24 16:07	

Anions by Ion Chromatography

EPA 300.0	Chloride	6.72	mg/L	0.20	0.02		X416128	RS	04/17/24 13:05	
EPA 300.0	Fluoride	0.929	mg/L	0.100	0.017		X416128	RS	04/17/24 13:05	
EPA 300.0	Nitrate as N	0.455	mg/L	0.050	0.013		X416128	RS	04/17/24 13:05	
EPA 300.0	Nitrate+Nitrite as N	0.458	mg/L	0.100	0.044		X416128	RS	04/17/24 13:05	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X416128	RS	04/17/24 13:05	
EPA 300.0	Sulfate as SO4	71.4	mg/L	3.00	1.80	10	X416128	RS	04/17/24 13:23	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 1.96 meq/L	Anion Sum: 1.90 meq/L	C/A Balance: 1.54 %	Calculated TDS: 129	TDS/cTDS: 1.01

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

 Kathryn Salter
Project Manager



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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: **X4D0308**
Reported: 28-May-24 13:20

Client Sample ID: **T-2**

SVL Sample ID: **X4D0308-03 (Surface Water)**

Sampled: 16-Apr-24 14:20
Received: 17-Apr-24
Sampled By: PB

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		X417041	MAC	04/23/24 14:03	U

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

EPA 200.7	Barium	0.0914	mg/L	0.0020	0.0019		X417188	NMS	05/01/24 11:16	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X417188	NMS	05/01/24 11:16	
EPA 200.7	Boron	0.0621	mg/L	0.0400	0.0078		X417188	NMS	05/01/24 11:16	
EPA 200.7	Calcium	96.3	mg/L	0.100	0.069		X417188	NMS	05/01/24 11:16	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X417188	NMS	05/01/24 11:16	
EPA 200.7	Iron	0.406	mg/L	0.100	0.056		X417188	NMS	05/01/24 11:16	
EPA 200.7	Magnesium	27.1	mg/L	0.500	0.090		X417188	NMS	05/01/24 11:16	
EPA 200.7	Manganese	1.87	mg/L	0.0080	0.0034		X417188	NMS	05/01/24 11:16	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X417188	NMS	05/01/24 11:16	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X417188	NMS	05/01/24 11:16	
EPA 200.7	Phosphorus	0.077	mg/L	0.050	0.013		X417188	NMS	05/01/24 11:16	
EPA 200.7	Potassium	7.04	mg/L	0.50	0.18		X417188	NMS	05/01/24 11:16	
EPA 200.7	Sodium	26.0	mg/L	0.50	0.12		X417188	NMS	05/01/24 11:16	
EPA 200.7	Zinc	0.0283	mg/L	0.0100	0.0054		X417188	NMS	05/01/24 11:16	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X417191	SMU	04/30/24 14:44	
EPA 200.8	Arsenic	0.00124	mg/L	0.00100	0.00021		X417191	SMU	04/30/24 14:44	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X417191	SMU	04/30/24 14:44	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X417191	SMU	04/30/24 14:44	
EPA 200.8	Copper	0.00061	mg/L	0.00040	0.00036		X417191	SMU	04/30/24 14:44	B1
EPA 200.8	Lead	0.00020	mg/L	0.00020	0.00014		X417191	SMU	04/30/24 14:44	B10
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X417191	SMU	04/30/24 14:44	
SM 2340 B	Hardness (as CaC03)	352	mg/L	2.31	0.543		N/A		04/23/24 15:51	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X416170	NMS	04/23/24 15:51	
EPA 200.7	Barium	0.0919	mg/L	0.0020	0.0019		X416170	NMS	04/23/24 15:51	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X416170	NMS	04/23/24 15:51	
EPA 200.7	Calcium	96.9	mg/L	0.100	0.069		X416170	NMS	04/23/24 15:51	
EPA 200.7	Iron	0.120	mg/L	0.100	0.056		X416170	NMS	04/23/24 15:51	
EPA 200.7	Magnesium	28.3	mg/L	0.500	0.090		X416170	NMS	04/23/24 15:51	
EPA 200.7	Manganese	1.79	mg/L	0.0080	0.0034		X416170	NMS	04/23/24 15:51	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X416170	NMS	04/23/24 15:51	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X416170	NMS	04/23/24 15:51	
EPA 200.7	Potassium	6.84	mg/L	0.50	0.18		X416170	NMS	04/23/24 15:51	
EPA 200.7	Sodium	26.0	mg/L	0.50	0.12		X416170	NMS	04/23/24 15:51	
EPA 200.7	Zinc	0.0263	mg/L	0.0100	0.0054		X416170	NMS	04/23/24 15:51	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X416272	SMU	04/29/24 16:09	
EPA 200.8	Arsenic	0.00121	mg/L	0.00100	0.00021		X416272	SMU	04/29/24 16:09	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X416272	SMU	04/29/24 16:09	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X416272	SMU	04/29/24 16:09	
EPA 200.8	Copper	0.00042	mg/L	0.00040	0.00036		X416272	SMU	04/29/24 16:09	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X416272	SMU	04/29/24 16:09	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X416272	SMU	04/29/24 16:09	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X416272	SMU	04/29/24 16:09	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X416272	SMU	04/29/24 16:09	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X416272	SMU	04/29/24 16:09	



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Newmont - Cripple Creek & Victor	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4D0308
Victor, CO 80860	Reported: 28-May-24 13:20

Client Sample ID: T-2

SVL Sample ID: X4D0308-03 (Surface Water)

Sample Report Page 2 of 2

Sampled: 16-Apr-24 14:20
Received: 17-Apr-24
Sampled By: PB

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		X417003	MAC	04/23/24 15:52	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X418026	DD	04/29/24 11:56	
Calculation	Chromium(III)	< 0.0160	mg/L	0.0160	0.00580		N/A		05/01/24 11:16	
EPA 335.4	Cyanide (total)	0.0057	mg/L	0.0050	0.0038		X417022	DD	04/23/24 15:40	
EPA 350.1	Ammonia as N	0.035	mg/L	0.030	0.013		X416195	DD	04/24/24 10:45	
EPA 351.2	TKN	0.61	mg/L	0.50	0.31		X416253	DD	04/22/24 11:33	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X416130	DD	04/19/24 13:58	
SM 2310 B	Acidity to pH 8.3	-35.5	mg/L as CaCO3	10.0			X416151	MWD	04/18/24 08:48	
SM 2320 B	Total Alkalinity	33.3	mg/L as CaCO3	1.0			X416119	MWD	04/17/24 15:31	
SM 2320 B	Bicarbonate	33.3	mg/L as CaCO3	1.0			X416119	MWD	04/17/24 15:31	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X416119	MWD	04/17/24 15:31	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X416119	MWD	04/17/24 15:31	
SM 2540 C	Total Diss. Solids	579	mg/L	10			X416142	TJL	04/19/24 14:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X416143	TJL	04/22/24 16:30	
SM 4500 H B	pH @20.0°C	6.9	pH Units				X416119	MWD	04/17/24 15:31	H5
SM 4500 S D	Sulfide	< 0.100	mg/L	0.100	0.040	2	X416245	MCM	04/22/24 17:26	D1
SM 4500-O-G	Dissolved Oxygen	5.7	mg/L	0.1			X418017	TJL	04/29/24 14:15	H3,H5

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	< 0.0100	mg/L	0.0100	0.0038	2	X416103	MCM	04/17/24 17:00	D1

Filtered Classical Chemistry Parameters

Calculation	Chromium(III)-Dissolved	< 0.0110	mg/L	0.0110	0.00397		N/A		04/29/24 16:09	

Anions by Ion Chromatography

EPA 300.0	Chloride	24.5	mg/L	2.00	0.22	10	X416128	RS	04/17/24 15:48	D2
EPA 300.0	Fluoride	0.594	mg/L	0.100	0.017		X416128	RS	04/17/24 15:30	
EPA 300.0	Nitrate as N	0.644	mg/L	0.050	0.013		X416128	RS	04/17/24 15:30	
EPA 300.0	Nitrate+Nitrite as N	0.715	mg/L	0.100	0.044		X416128	RS	04/17/24 15:30	
EPA 300.0	Nitrite as N	0.071	mg/L	0.050	0.031		X416128	RS	04/17/24 15:30	
EPA 300.0	Sulfate as SO4	330	mg/L	3.00	1.80	10	X416128	RS	04/17/24 15:48	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 8.42 meq/L	Anion Sum: 8.31 meq/L	C/A Balance: 0.66 %	Calculated TDS: 535	TDS/cTDS: 1.08

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

Kathryn Salter
Project Manager



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Kellogg, ID 83837-0929

(208) 784-1258

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0308**

Reported: 28-May-24 13:20

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	X417041	23-Apr-24	U

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

EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X417188	01-May-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X417188	01-May-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X417188	01-May-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X417188	01-May-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X417188	01-May-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X417188	01-May-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X417188	01-May-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X417188	01-May-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X417188	01-May-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X417188	01-May-24	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X417188	01-May-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X417188	01-May-24	
EPA 200.7	Sodium	mg/L	<0.12	0.12	0.50	X417188	01-May-24	U
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X417188	01-May-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X417191	30-Apr-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X417191	30-Apr-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X417191	30-Apr-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X417191	30-Apr-24	
EPA 200.8	Copper	mg/L	0.00070	0.00036	0.00040	X417191	30-Apr-24	B1
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X417191	30-Apr-24	B10
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X417191	30-Apr-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X416170	23-Apr-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X416170	23-Apr-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X416170	23-Apr-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X416170	23-Apr-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X416170	23-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X416170	23-Apr-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X416170	23-Apr-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X416170	23-Apr-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X416170	23-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X416170	23-Apr-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X416170	23-Apr-24	B7
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X416170	23-Apr-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X416272	29-Apr-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X416272	29-Apr-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X416272	29-Apr-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X416272	29-Apr-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X416272	29-Apr-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X416272	29-Apr-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X416272	29-Apr-24	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X416272	29-Apr-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X416272	29-Apr-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X416272	29-Apr-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X417003	23-Apr-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X418026	29-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X417022	23-Apr-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X416195	24-Apr-24	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X416253	22-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X416130	19-Apr-24	

SVL holds the following certifications:

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

Work

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0308**

Reported: 28-May-24 13:20

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes

Classical Chemistry Parameters (Continued)

SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	<10.0		10.0	X416151	18-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0		1.0	X416119	17-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0		1.0	X416119	17-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0		1.0	X416119	17-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0		1.0	X416119	17-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X416142	19-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X416143	22-Apr-24	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X416245	22-Apr-24	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X416103	17-Apr-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X416128	17-Apr-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X416128	17-Apr-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X416128	17-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X416128	17-Apr-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X416128	17-Apr-24	
EPA 300.0	Sulfate as SO ₄	mg/L	<0.30	0.18	0.30	X416128	17-Apr-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	0.00222	0.00200	111	85 - 115	X417041	23-Apr-24	

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

EPA 200.7	Barium	mg/L	1.07	1.00	107	85 - 115	X417188	01-May-24	
EPA 200.7	Beryllium	mg/L	1.07	1.00	107	85 - 115	X417188	01-May-24	
EPA 200.7	Boron	mg/L	1.06	1.00	106	85 - 115	X417188	01-May-24	
EPA 200.7	Calcium	mg/L	21.3	20.0	106	85 - 115	X417188	01-May-24	
EPA 200.7	Chromium	mg/L	1.05	1.00	105	85 - 115	X417188	01-May-24	
EPA 200.7	Iron	mg/L	11.0	10.0	110	85 - 115	X417188	01-May-24	
EPA 200.7	Magnesium	mg/L	21.3	20.0	106	85 - 115	X417188	01-May-24	
EPA 200.7	Manganese	mg/L	1.06	1.00	106	85 - 115	X417188	01-May-24	
EPA 200.7	Molybdenum	mg/L	1.06	1.00	106	85 - 115	X417188	01-May-24	
EPA 200.7	Nickel	mg/L	1.04	1.00	104	85 - 115	X417188	01-May-24	
EPA 200.7	Phosphorus	mg/L	1.08	1.00	108	85 - 115	X417188	01-May-24	
EPA 200.7	Potassium	mg/L	21.1	20.0	106	85 - 115	X417188	01-May-24	
EPA 200.7	Sodium	mg/L	20.1	19.0	106	85 - 115	X417188	01-May-24	
EPA 200.7	Zinc	mg/L	1.04	1.00	104	85 - 115	X417188	01-May-24	
EPA 200.8	Antimony	mg/L	0.0244	0.0250	97.5	85 - 115	X417191	30-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0239	0.0250	95.7	85 - 115	X417191	30-Apr-24	
EPA 200.8	Cadmium	mg/L	0.0239	0.0250	95.7	85 - 115	X417191	30-Apr-24	
EPA 200.8	Chromium	mg/L	0.0254	0.0250	102	85 - 115	X417191	30-Apr-24	
EPA 200.8	Copper	mg/L	0.0261	0.0250	105	85 - 115	X417191	30-Apr-24	B1
EPA 200.8	Lead	mg/L	0.0241	0.0250	96.4	85 - 115	X417191	30-Apr-24	B10
EPA 200.8	Selenium	mg/L	0.0216	0.0250	86.6	85 - 115	X417191	30-Apr-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.977	1.00	97.7	85 - 115	X416170	23-Apr-24	
EPA 200.7	Barium	mg/L	0.985	1.00	98.5	85 - 115	X416170	23-Apr-24	
EPA 200.7	Beryllium	mg/L	0.910	1.00	91.0	85 - 115	X416170	23-Apr-24	
EPA 200.7	Calcium	mg/L	19.5	20.0	97.3	85 - 115	X416170	23-Apr-24	

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: **X4D0308**

Reported: 28-May-24 13:20

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

Metals (Dissolved) (Continued)

EPA 200.7	Iron	mg/L	9.97	10.0	99.7	85 - 115	X416170	23-Apr-24	
EPA 200.7	Magnesium	mg/L	19.9	20.0	99.4	85 - 115	X416170	23-Apr-24	
EPA 200.7	Manganese	mg/L	0.940	1.00	94.0	85 - 115	X416170	23-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.950	1.00	95.0	85 - 115	X416170	23-Apr-24	
EPA 200.7	Nickel	mg/L	0.923	1.00	92.3	85 - 115	X416170	23-Apr-24	
EPA 200.7	Potassium	mg/L	19.0	20.0	95.2	85 - 115	X416170	23-Apr-24	
EPA 200.7	Sodium	mg/L	18.8	19.0	99.0	85 - 115	X416170	23-Apr-24	
EPA 200.7	Zinc	mg/L	0.932	1.00	93.2	85 - 115	X416170	23-Apr-24	B7
EPA 200.8	Antimony	mg/L	0.0259	0.0250	104	85 - 115	X416272	29-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0250	0.0250	100	85 - 115	X416272	29-Apr-24	
EPA 200.8	Cadmium	mg/L	0.0259	0.0250	104	85 - 115	X416272	29-Apr-24	
EPA 200.8	Chromium	mg/L	0.0249	0.0250	99.4	85 - 115	X416272	29-Apr-24	
EPA 200.8	Copper	mg/L	0.0253	0.0250	101	85 - 115	X416272	29-Apr-24	
EPA 200.8	Lead	mg/L	0.0251	0.0250	101	85 - 115	X416272	29-Apr-24	
EPA 200.8	Selenium	mg/L	0.0245	0.0250	98.1	85 - 115	X416272	29-Apr-24	
EPA 200.8	Silver	mg/L	0.0263	0.0250	105	85 - 115	X416272	29-Apr-24	
EPA 200.8	Thallium	mg/L	0.0253	0.0250	101	85 - 115	X416272	29-Apr-24	
EPA 200.8	Uranium	mg/L	0.0248	0.0250	99.2	85 - 115	X416272	29-Apr-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00219	0.00200	109	85 - 115	X417003	23-Apr-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.103	0.100	103	90 - 110	X418026	29-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.100	102	90 - 110	X417022	23-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.01	1.00	101	90 - 110	X416195	24-Apr-24	
EPA 351.2	TKN	mg/L	8.74	8.00	109	90 - 110	X416253	22-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0950	0.100	95.0	90 - 110	X416130	19-Apr-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1650	1640	101	95.4 - 104	X416151	18-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.2	9.93	103	96.4 - 105	X416119	17-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	96.4 - 105	X416119	17-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	403	397	102	96.4 - 105	X416119	17-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X416143	22-Apr-24	
SM 4500 S D	Sulfide	mg/L	0.485	0.500	97.0	85 - 115	X416245	22-Apr-24	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	0.104	0.100	104	80 - 120	X416103	17-Apr-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.99	3.00	99.7	90 - 110	X416128	17-Apr-24	
EPA 300.0	Fluoride	mg/L	1.94	2.00	97.2	90 - 110	X416128	17-Apr-24	
EPA 300.0	Nitrate as N	mg/L	1.99	2.00	99.3	90 - 110	X416128	17-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.48	4.50	99.5	90 - 110	X416128	17-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.49	2.50	99.8	90 - 110	X416128	17-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X416128	17-Apr-24	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0308**

Reported: 28-May-24 13:20

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	<10.0	<10.0	UDL	20	X416151 - X4D0212-01	18-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	512	512	0.0	20	X416119 - X4D0281-01	17-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	512	512	0.0	20	X416119 - X4D0281-01	17-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X416119 - X4D0281-01	17-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X416119 - X4D0281-01	17-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	238	246	3.3	10	X416142 - X4D0301-02	19-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	371	351	5.5	10	X416142 - X4D0312-02	19-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	<5.0	<RL	10	X416143 - X4D0301-02	22-Apr-24	R2B
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X416143 - X4D0312-02	22-Apr-24	
SM 4500 H B	pH @19.0°C	pH Units	6.8	6.8	0.6	20	X416119 - X4D0281-01	17-Apr-24	
SM 4500-O-G	Dissolved Oxygen	mg/L	6.1	6.2	1.6	20	X418017 - X4D0308-01	29-Apr-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	0.00223	<0.000093	0.00200	112	70 - 130	X417041 - X4D0308-01	23-Apr-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	0.981	0.0180	1.00	96.3	70 - 130	X417188 - X4D0348-02	01-May-24	
EPA 200.7	Beryllium	mg/L	0.977	<0.00200	1.00	97.7	70 - 130	X417188 - X4D0348-02	01-May-24	
EPA 200.7	Boron	mg/L	1.01	0.0439	1.00	96.3	70 - 130	X417188 - X4D0348-02	01-May-24	
EPA 200.7	Calcium	mg/L	577	557	20.0	102	70 - 130	X417188 - X4D0348-02	01-May-24	D2
EPA 200.7	Chromium	mg/L	0.956	<0.0060	1.00	95.6	70 - 130	X417188 - X4D0348-02	01-May-24	
EPA 200.7	Iron	mg/L	10.1	<0.100	10.0	100	70 - 130	X417188 - X4D0348-02	01-May-24	
EPA 200.7	Magnesium	mg/L	127	107	20.0	103	70 - 130	X417188 - X4D0348-02	01-May-24	
EPA 200.7	Manganese	mg/L	1.05	0.0794	1.00	97.6	70 - 130	X417188 - X4D0348-02	01-May-24	
EPA 200.7	Molybdenum	mg/L	0.975	0.0152	1.00	95.9	70 - 130	X417188 - X4D0348-02	01-May-24	
EPA 200.7	Nickel	mg/L	0.883	<0.0100	1.00	88.3	70 - 130	X417188 - X4D0348-02	01-May-24	
EPA 200.7	Phosphorus	mg/L	1.12	0.057	1.00	106	70 - 130	X417188 - X4D0348-02	01-May-24	
EPA 200.7	Potassium	mg/L	25.6	4.47	20.0	106	70 - 130	X417188 - X4D0348-02	01-May-24	
EPA 200.7	Sodium	mg/L	119	99.0	19.0	107	70 - 130	X417188 - X4D0348-02	01-May-24	
EPA 200.7	Zinc	mg/L	0.869	<0.0100	1.00	86.9	70 - 130	X417188 - X4D0348-02	01-May-24	
EPA 200.8	Antimony	mg/L	0.0266	<0.00100	0.0250	106	70 - 130	X417191 - X4D0308-03	30-Apr-24	
EPA 200.8	Antimony	mg/L	0.0256	<0.00100	0.0250	102	70 - 130	X417191 - X4D0312-06	30-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0256	0.00124	0.0250	97.5	70 - 130	X417191 - X4D0308-03	30-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0290	0.00527	0.0250	94.9	70 - 130	X417191 - X4D0312-06	30-Apr-24	
EPA 200.8	Cadmium	mg/L	0.0249	<0.000100	0.0250	99.5	70 - 130	X417191 - X4D0308-03	30-Apr-24	
EPA 200.8	Cadmium	mg/L	0.0250	<0.000100	0.0250	100	70 - 130	X417191 - X4D0312-06	30-Apr-24	
EPA 200.8	Chromium	mg/L	0.0243	<0.00100	0.0250	97.2	70 - 130	X417191 - X4D0308-03	30-Apr-24	
EPA 200.8	Chromium	mg/L	0.0234	<0.00100	0.0250	92.7	70 - 130	X417191 - X4D0312-06	30-Apr-24	
EPA 200.8	Copper	mg/L	0.0258	0.00061	0.0250	101	70 - 130	X417191 - X4D0308-03	30-Apr-24	B1
EPA 200.8	Copper	mg/L	0.0254	0.00051	0.0250	99.5	70 - 130	X417191 - X4D0312-06	30-Apr-24	B1
EPA 200.8	Lead	mg/L	0.0239	0.00020	0.0250	95.0	70 - 130	X417191 - X4D0308-03	30-Apr-24	B10
EPA 200.8	Lead	mg/L	0.0246	<0.00020	0.0250	98.3	70 - 130	X417191 - X4D0312-06	30-Apr-24	B10
EPA 200.8	Selenium	mg/L	0.0235	<0.00100	0.0250	91.8	70 - 130	X417191 - X4D0308-03	30-Apr-24	
EPA 200.8	Selenium	mg/L	0.0223	<0.00100	0.0250	89.0	70 - 130	X417191 - X4D0312-06	30-Apr-24	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0308**

Reported: 28-May-24 13:20

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.17	0.168	1.00	99.7	70 - 130	X416170 - X4D0275-01	23-Apr-24	
EPA 200.7	Aluminum	mg/L	1.03	<0.080	1.00	103	70 - 130	X416170 - X4D0283-01	23-Apr-24	
EPA 200.7	Barium	mg/L	1.05	0.0398	1.00	101	70 - 130	X416170 - X4D0275-01	23-Apr-24	
EPA 200.7	Barium	mg/L	1.06	0.0335	1.00	102	70 - 130	X416170 - X4D0283-01	23-Apr-24	
EPA 200.7	Beryllium	mg/L	0.933	<0.00200	1.00	93.3	70 - 130	X416170 - X4D0275-01	23-Apr-24	
EPA 200.7	Beryllium	mg/L	0.923	<0.00200	1.00	92.3	70 - 130	X416170 - X4D0283-01	23-Apr-24	
EPA 200.7	Calcium	mg/L	96.3	76.2	20.0	101	70 - 130	X416170 - X4D0275-01	23-Apr-24	
EPA 200.7	Calcium	mg/L	78.4	56.2	20.0	111	70 - 130	X416170 - X4D0283-01	23-Apr-24	
EPA 200.7	Iron	mg/L	10.2	<0.100	10.0	102	70 - 130	X416170 - X4D0275-01	23-Apr-24	
EPA 200.7	Iron	mg/L	10.4	0.192	10.0	102	70 - 130	X416170 - X4D0283-01	23-Apr-24	
EPA 200.7	Magnesium	mg/L	39.6	18.7	20.0	105	70 - 130	X416170 - X4D0275-01	23-Apr-24	
EPA 200.7	Magnesium	mg/L	30.8	9.51	20.0	106	70 - 130	X416170 - X4D0283-01	23-Apr-24	
EPA 200.7	Manganese	mg/L	5.04	4.05	1.00	99.0	70 - 130	X416170 - X4D0275-01	23-Apr-24	
EPA 200.7	Manganese	mg/L	1.11	0.150	1.00	95.7	70 - 130	X416170 - X4D0283-01	23-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.970	<0.0080	1.00	97.0	70 - 130	X416170 - X4D0275-01	23-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.977	<0.0080	1.00	97.7	70 - 130	X416170 - X4D0283-01	23-Apr-24	
EPA 200.7	Nickel	mg/L	0.964	0.0243	1.00	94.0	70 - 130	X416170 - X4D0275-01	23-Apr-24	
EPA 200.7	Nickel	mg/L	0.956	<0.0100	1.00	94.8	70 - 130	X416170 - X4D0283-01	23-Apr-24	
EPA 200.7	Potassium	mg/L	24.5	4.97	20.0	97.8	70 - 130	X416170 - X4D0275-01	23-Apr-24	
EPA 200.7	Potassium	mg/L	22.0	2.44	20.0	98.0	70 - 130	X416170 - X4D0283-01	23-Apr-24	
EPA 200.7	Sodium	mg/L	103	84.4	19.0	97.5	70 - 130	X416170 - X4D0275-01	23-Apr-24	B7
EPA 200.7	Sodium	mg/L	43.1	23.5	19.0	103	70 - 130	X416170 - X4D0283-01	23-Apr-24	B7
EPA 200.7	Zinc	mg/L	1.15	0.186	1.00	96.5	70 - 130	X416170 - X4D0275-01	23-Apr-24	
EPA 200.7	Zinc	mg/L	0.980	<0.0100	1.00	97.3	70 - 130	X416170 - X4D0283-01	23-Apr-24	
EPA 200.8	Antimony	mg/L	0.0268	<0.00100	0.0250	107	70 - 130	X416272 - X4D0283-01	29-Apr-24	
EPA 200.8	Antimony	mg/L	0.0266	<0.00100	0.0250	107	70 - 130	X416272 - X4D0301-01	29-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0263	<0.00100	0.0250	104	70 - 130	X416272 - X4D0283-01	29-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0242	<0.00100	0.0250	96.8	70 - 130	X416272 - X4D0301-01	29-Apr-24	
EPA 200.8	Cadmium	mg/L	0.0251	<0.000100	0.0250	100	70 - 130	X416272 - X4D0283-01	29-Apr-24	
EPA 200.8	Cadmium	mg/L	0.0246	<0.000100	0.0250	98.3	70 - 130	X416272 - X4D0301-01	29-Apr-24	
EPA 200.8	Chromium	mg/L	0.0245	<0.00100	0.0250	98.2	70 - 130	X416272 - X4D0283-01	29-Apr-24	
EPA 200.8	Chromium	mg/L	0.0236	<0.00100	0.0250	94.5	70 - 130	X416272 - X4D0301-01	29-Apr-24	
EPA 200.8	Copper	mg/L	0.0262	0.00105	0.0250	101	70 - 130	X416272 - X4D0283-01	29-Apr-24	
EPA 200.8	Copper	mg/L	0.0248	0.00070	0.0250	96.3	70 - 130	X416272 - X4D0301-01	29-Apr-24	
EPA 200.8	Lead	mg/L	0.0238	<0.00020	0.0250	95.4	70 - 130	X416272 - X4D0283-01	29-Apr-24	
EPA 200.8	Lead	mg/L	0.0228	<0.00020	0.0250	91.2	70 - 130	X416272 - X4D0301-01	29-Apr-24	
EPA 200.8	Selenium	mg/L	0.0246	<0.00100	0.0250	96.4	70 - 130	X416272 - X4D0283-01	29-Apr-24	
EPA 200.8	Selenium	mg/L	0.0236	<0.00100	0.0250	93.2	70 - 130	X416272 - X4D0301-01	29-Apr-24	
EPA 200.8	Silver	mg/L	0.0244	<0.00008	0.0250	97.7	70 - 130	X416272 - X4D0283-01	29-Apr-24	
EPA 200.8	Silver	mg/L	0.0242	<0.00008	0.0250	96.8	70 - 130	X416272 - X4D0301-01	29-Apr-24	
EPA 200.8	Thallium	mg/L	0.0239	<0.000200	0.0250	95.7	70 - 130	X416272 - X4D0283-01	29-Apr-24	
EPA 200.8	Thallium	mg/L	0.0228	<0.000200	0.0250	91.1	70 - 130	X416272 - X4D0301-01	29-Apr-24	
EPA 200.8	Uranium	mg/L	0.0262	0.00211	0.0250	96.4	70 - 130	X416272 - X4D0283-01	29-Apr-24	
EPA 200.8	Uranium	mg/L	0.0232	0.000278	0.0250	91.8	70 - 130	X416272 - X4D0301-01	29-Apr-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00330	0.00109	0.00200	110	70 - 130	X417003 - X4D0264-01	23-Apr-24	
EPA 245.1	Mercury	mg/L	0.00223	<0.000200	0.00200	111	70 - 130	X417003 - X4D0308-02	23-Apr-24	



Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0308**

Reported: 28-May-24 13:20

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.121	<0.0050	0.100	121	79 - 121	X418026 - X4D0308-01	29-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.106	<0.0050	0.100	106	90 - 110	X417022 - X4D0346-13	23-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.105	<0.0050	0.100	105	90 - 110	X417022 - X4D0346-12	23-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.22	<0.030	1.00	119	90 - 110	X416195 - X4D0296-01	24-Apr-24	M1
EPA 350.1	Ammonia as N	mg/L	1.13	<0.030	1.00	112	90 - 110	X416195 - X4D0296-02	24-Apr-24	M1
EPA 351.2	TKN	mg/L	8.79	24.3	8.00	-193	90 - 110	X416253 - X4D0235-01	22-Apr-24	M1
EPA 351.2	TKN	mg/L	8.30	<0.50	8.00	104	90 - 110	X416253 - X4D0241-01	22-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.115	<0.0050	0.100	114	82 - 118	X416130 - X4D0206-01	19-Apr-24	
SM 4500 S D	Sulfide	mg/L	0.292	<0.050	0.200	146	75 - 125	X416245 - X4D0348-01	22-Apr-24	M1

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0216	<0.0050	0.0200	108	75 - 125	X416103 - X4D0283-02	17-Apr-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	9.83	6.72	3.00	103	90 - 110	X416128 - X4D0308-02	17-Apr-24	
EPA 300.0	Chloride	mg/L	7.44	4.47	3.00	99.0	90 - 110	X416128 - X4D0324-01	17-Apr-24	
EPA 300.0	Fluoride	mg/L	2.88	0.929	2.00	97.5	90 - 110	X416128 - X4D0308-02	17-Apr-24	
EPA 300.0	Fluoride	mg/L	1.96	<0.100	2.00	96.1	90 - 110	X416128 - X4D0324-01	17-Apr-24	
EPA 300.0	Nitrate as N	mg/L	2.42	0.455	2.00	98.3	90 - 110	X416128 - X4D0308-02	17-Apr-24	
EPA 300.0	Nitrate as N	mg/L	2.05	0.098	2.00	97.4	90 - 110	X416128 - X4D0324-01	17-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.44	0.458	4.00	99.5	90 - 110	X416128 - X4D0308-02	17-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.05	<0.100	4.00	98.9	90 - 110	X416128 - X4D0324-01	17-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X416128 - X4D0308-02	17-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.01	<0.050	2.00	100	90 - 110	X416128 - X4D0324-01	17-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	81.5	71.4	10.0	101	90 - 110	X416128 - X4D0308-02	17-Apr-24	D2
EPA 300.0	Sulfate as SO4	mg/L	12.8	2.70	10.0	101	90 - 110	X416128 - X4D0324-01	17-Apr-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	0.00220	0.00223	0.00200	1.5	20	110	X417041 - X4D0308-01	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	0.971	0.981	1.00	1.1	20	95.3	X417188 - X4D0348-02	
EPA 200.7	Beryllium	mg/L	0.938	0.977	1.00	4.0	20	93.8	X417188 - X4D0348-02	
EPA 200.7	Boron	mg/L	0.997	1.01	1.00	1.0	20	95.3	X417188 - X4D0348-02	
EPA 200.7	Calcium	mg/L	571	577	20.0	1.0	20	71	X417188 - X4D0348-02	D2
EPA 200.7	Chromium	mg/L	0.936	0.956	1.00	2.1	20	93.6	X417188 - X4D0348-02	
EPA 200.7	Iron	mg/L	9.82	10.1	10.0	2.8	20	97.4	X417188 - X4D0348-02	
EPA 200.7	Magnesium	mg/L	121	127	20.0	4.8	20	73.0	X417188 - X4D0348-02	
EPA 200.7	Manganese	mg/L	1.02	1.05	1.00	3.3	20	94.1	X417188 - X4D0348-02	
EPA 200.7	Molybdenum	mg/L	0.954	0.975	1.00	2.1	20	93.9	X417188 - X4D0348-02	
EPA 200.7	Nickel	mg/L	0.870	0.883	1.00	1.5	20	87.0	X417188 - X4D0348-02	
EPA 200.7	Phosphorus	mg/L	1.11	1.12	1.00	0.6	20	106	X417188 - X4D0348-02	
EPA 200.7	Potassium	mg/L	24.5	25.6	20.0	4.5	20	100	X417188 - X4D0348-02	
EPA 200.7	Sodium	mg/L	115	119	19.0	3.7	20	83.7	X417188 - X4D0348-02	
EPA 200.7	Zinc	mg/L	0.855	0.869	1.00	1.7	20	85.5	X417188 - X4D0348-02	
EPA 200.8	Antimony	mg/L	0.0272	0.0266	0.0250	2.4	20	109	X417191 - X4D0308-03	
EPA 200.8	Arsenic	mg/L	0.0262	0.0256	0.0250	2.2	20	99.8	X417191 - X4D0308-03	
EPA 200.8	Cadmium	mg/L	0.0257	0.0249	0.0250	3.5	20	103	X417191 - X4D0308-03	

SVL holds the following certifications:

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

Work



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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: **X4D0308**

Reported: 28-May-24 13:20

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

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

EPA 200.8	Chromium	mg/L	0.0246	0.0243	0.0250	1.3	20	98.5	X417191 - X4D0308-03	
EPA 200.8	Copper	mg/L	0.0262	0.0258	0.0250	1.6	20	102	X417191 - X4D0308-03	B1
EPA 200.8	Lead	mg/L	0.0244	0.0239	0.0250	1.8	20	96.7	X417191 - X4D0308-03	B10
EPA 200.8	Selenium	mg/L	0.0244	0.0235	0.0250	3.9	20	95.5	X417191 - X4D0308-03	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.16	1.17	1.00	0.8	20	98.9	X416170 - X4D0275-01	
EPA 200.7	Barium	mg/L	1.03	1.05	1.00	1.9	20	98.8	X416170 - X4D0275-01	
EPA 200.7	Beryllium	mg/L	0.940	0.933	1.00	0.8	20	94.0	X416170 - X4D0275-01	
EPA 200.7	Calcium	mg/L	96.0	96.3	20.0	0.3	20	99.2	X416170 - X4D0275-01	
EPA 200.7	Iron	mg/L	10.1	10.2	10.0	1.0	20	101	X416170 - X4D0275-01	
EPA 200.7	Magnesium	mg/L	38.9	39.6	20.0	1.8	20	101	X416170 - X4D0275-01	
EPA 200.7	Manganese	mg/L	5.07	5.04	1.00	0.6	20	102	X416170 - X4D0275-01	
EPA 200.7	Molybdenum	mg/L	0.968	0.970	1.00	0.2	20	96.8	X416170 - X4D0275-01	
EPA 200.7	Nickel	mg/L	0.956	0.964	1.00	0.8	20	93.2	X416170 - X4D0275-01	
EPA 200.7	Potassium	mg/L	24.2	24.5	20.0	1.3	20	96.2	X416170 - X4D0275-01	
EPA 200.7	Sodium	mg/L	103	103	19.0	0.3	20	95.8	X416170 - X4D0275-01	B7
EPA 200.7	Zinc	mg/L	1.14	1.15	1.00	0.7	20	95.7	X416170 - X4D0275-01	
EPA 200.8	Antimony	mg/L	0.0272	0.0268	0.0250	1.6	20	109	X416272 - X4D0283-01	
EPA 200.8	Arsenic	mg/L	0.0257	0.0263	0.0250	2.4	20	101	X416272 - X4D0283-01	
EPA 200.8	Cadmium	mg/L	0.0257	0.0251	0.0250	2.2	20	103	X416272 - X4D0283-01	
EPA 200.8	Chromium	mg/L	0.0247	0.0245	0.0250	0.7	20	98.8	X416272 - X4D0283-01	
EPA 200.8	Copper	mg/L	0.0267	0.0262	0.0250	1.8	20	103	X416272 - X4D0283-01	
EPA 200.8	Lead	mg/L	0.0245	0.0238	0.0250	2.7	20	98.0	X416272 - X4D0283-01	
EPA 200.8	Selenium	mg/L	0.0247	0.0246	0.0250	0.4	20	96.8	X416272 - X4D0283-01	
EPA 200.8	Silver	mg/L	0.0253	0.0244	0.0250	3.7	20	101	X416272 - X4D0283-01	
EPA 200.8	Thallium	mg/L	0.0243	0.0239	0.0250	1.7	20	97.4	X416272 - X4D0283-01	
EPA 200.8	Uranium	mg/L	0.0269	0.0262	0.0250	2.5	20	99.1	X416272 - X4D0283-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00339	0.00330	0.00200	2.7	20	115	X417003 - X4D0264-01	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.114	0.121	0.100	6.0	11	114	X418026 - X4D0308-01	
EPA 335.4	Cyanide (total)	mg/L	0.106	0.106	0.100	0.4	20	106	X417022 - X4D0346-13	
EPA 350.1	Ammonia as N	mg/L	1.20	1.22	1.00	1.6	20	117	X416195 - X4D0296-01	M1
EPA 351.2	TKN	mg/L	8.61	8.79	8.00	2.0	20	-196	X416253 - X4D0235-01	M1
OIA 1677	Cyanide (WAD)	mg/L	0.120	0.115	0.100	4.3	11	119	X416130 - X4D0206-01	M1
SM 4500 S D	Sulfide	mg/L	0.280	0.292	0.200	4.2	20	140	X416245 - X4D0348-01	M1

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0219	0.0216	0.0200	1.4	20	109	X416103 - X4D0283-02	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	9.91	9.83	3.00	0.8	20	106	X416128 - X4D0308-02	
EPA 300.0	Fluoride	mg/L	2.93	2.88	2.00	1.8	20	100	X416128 - X4D0308-02	
EPA 300.0	Nitrate as N	mg/L	2.47	2.42	2.00	2.0	20	101	X416128 - X4D0308-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.54	4.44	4.00	2.2	20	102	X416128 - X4D0308-02	
EPA 300.0	Nitrite as N	mg/L	2.07	2.02	2.00	2.4	20	103	X416128 - X4D0308-02	
EPA 300.0	Sulfate as SO4	mg/L	81.6	81.5	10.0	0.1	20	102	X416128 - X4D0308-02	D2



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Kellogg, ID 83837-0929

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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0308**

Reported: 28-May-24 13:20

Notes and Definitions

B1	Target analyte detected in method blank at or above the method reporting limit.
B10	Target analyte detected in method blank above laboratory acceptance limit but below reporting limit.
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.
D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
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.
R2B	RPD exceeded the laboratory acceptance limit.
U	Less than 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: X4E0006				
Victor, CO 80860					Reported: 15-May-24 13:40				

Client Sample ID: **AG-2.0**

SVL Sample ID: **X4E0006-01 (Surface Water)**

Sampled: 30-Apr-24 07:55
Received: 01-May-24
Sampled By: PB

Sample Report Page 1 of 2

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		X419147	MAC	05/14/24 14:04	U

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

EPA 200.7	Barium	0.0395	mg/L	0.0020	0.0019		X419017	SMU	05/07/24 18:07	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X419017	SMU	05/07/24 13:25	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X419017	SMU	05/07/24 13:25	
EPA 200.7	Calcium	21.4	mg/L	0.100	0.069		X419017	SMU	05/07/24 13:25	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X419017	SMU	05/07/24 13:25	
EPA 200.7	Iron	0.645	mg/L	0.100	0.056		X419017	SMU	05/07/24 13:25	
EPA 200.7	Magnesium	4.66	mg/L	0.500	0.090		X419017	SMU	05/07/24 13:25	
EPA 200.7	Manganese	0.0229	mg/L	0.0080	0.0034		X419017	SMU	05/07/24 13:25	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X419017	SMU	05/07/24 13:25	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X419017	SMU	05/07/24 13:25	
EPA 200.7	Phosphorus	< 0.050	mg/L	0.050	0.013		X419017	SMU	05/07/24 13:25	
EPA 200.7	Potassium	2.06	mg/L	0.50	0.18		X419017	SMU	05/07/24 13:25	
EPA 200.7	Sodium	9.31	mg/L	0.50	0.12		X419017	SMU	05/07/24 13:25	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X419017	SMU	05/07/24 13:25	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X419020	SMU	05/13/24 11:38	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X419020	SMU	05/13/24 11:38	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X419020	SMU	05/13/24 11:38	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X419020	SMU	05/13/24 11:38	
EPA 200.8	Copper	0.00070	mg/L	0.00040	0.00036		X419020	SMU	05/13/24 11:38	
EPA 200.8	Lead	0.00026	mg/L	0.00020	0.00014		X419020	SMU	05/13/24 11:38	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X419020	SMU	05/13/24 11:38	
SM 2340 B	Hardness (as CaC03)	73.3	mg/L	2.31	0.543		N/A		05/10/24 12:02	

Metals (Dissolved)

EPA 200.7	Aluminum	0.186	mg/L	0.080	0.054		X419008	NMS	05/10/24 12:02	
EPA 200.7	Barium	0.0387	mg/L	0.0020	0.0019		X419008	NMS	05/10/24 12:02	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X419008	NMS	05/10/24 12:02	
EPA 200.7	Calcium	21.7	mg/L	0.100	0.069		X419008	NMS	05/10/24 12:02	
EPA 200.7	Iron	0.238	mg/L	0.100	0.056		X419008	NMS	05/10/24 12:02	
EPA 200.7	Magnesium	5.48	mg/L	0.500	0.090		X419008	NMS	05/10/24 12:02	
EPA 200.7	Manganese	0.0186	mg/L	0.0080	0.0034		X419008	NMS	05/10/24 12:02	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X419008	NMS	05/10/24 12:02	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X419008	NMS	05/10/24 12:02	
EPA 200.7	Potassium	2.14	mg/L	0.50	0.18		X419008	NMS	05/10/24 12:02	
EPA 200.7	Sodium	9.58	mg/L	0.50	0.12		X419008	NMS	05/10/24 12:02	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X419008	NMS	05/10/24 12:02	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X418295	SMU	05/10/24 16:45	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X418295	SMU	05/10/24 16:45	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X418295	SMU	05/10/24 16:45	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X418295	SMU	05/10/24 16:45	
EPA 200.8	Copper	0.00088	mg/L	0.00040	0.00036		X418295	SMU	05/10/24 16:45	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X418295	SMU	05/10/24 16:45	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X418295	SMU	05/10/24 16:45	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X418295	SMU	05/10/24 16:45	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X418295	SMU	05/10/24 16:45	
EPA 200.8	Uranium	0.000150	mg/L	0.000100	0.000052		X418295	SMU	05/10/24 16:45	



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Newmont - Cripple Creek & Victor	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4E0006
Victor, CO 80860	Reported: 15-May-24 13:40

Client Sample ID: **AG-2.0**

SVL Sample ID: **X4E0006-01 (Surface Water)**

Sample Report Page 2 of 2

Sampled: 30-Apr-24 07:55
Received: 01-May-24
Sampled By: PB

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		X419148	MAC	05/14/24 12:47	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X418274	DD	05/06/24 13:31	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		05/07/24 13:25	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X419004	DD	05/07/24 09:13	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X418240	DD	05/03/24 08:57	
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X419105	DD	05/09/24 13:39	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X418219	DD	05/02/24 13:36	
SM 2310 B	Acidity to pH 8.3	-18.8	mg/L as CaCO3	10.0			X418258	MWD	05/03/24 12:34	
SM 2320 B	Total Alkalinity	17.0	mg/L as CaCO3	1.0			X418228	MWD	05/02/24 12:45	
SM 2320 B	Bicarbonate	17.0	mg/L as CaCO3	1.0			X418228	MWD	05/02/24 12:45	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X418228	MWD	05/02/24 12:45	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X418228	MWD	05/02/24 12:45	
SM 2540 C	Total Diss. Solids	141	mg/L	10			X418215	TJL	05/03/24 14:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X418216	TJL	05/03/24 15:50	
SM 4500 H B	pH @18.7°C	7.2	pH Units				X418228	MWD	05/02/24 12:45	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X418151	MCM	05/01/24 13:41	
SM 4500-O-G	Dissolved Oxygen	6.3	mg/L	0.1			X418253	TJL	05/02/24 12:50	H3,H5

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X418269	MCM	05/03/24 16:15	

Filtered Classical Chemistry Parameters

Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		05/10/24 16:45	

Anions by Ion Chromatography

EPA 300.0	Chloride	16.5	mg/L	2.00	0.22	10	X418197	RS	05/01/24 15:03	D2
EPA 300.0	Fluoride	1.91	mg/L	0.100	0.017		X418197	RS	05/01/24 14:44	
EPA 300.0	Nitrate as N	0.173	mg/L	0.050	0.013		X418197	RS	05/01/24 14:44	
EPA 300.0	Nitrate+Nitrite as N	0.173	mg/L	0.100	0.044		X418197	RS	05/01/24 14:44	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X418197	RS	05/01/24 14:44	
EPA 300.0	Sulfate as SO4	50.1	mg/L	0.30	0.18		X418197	RS	05/01/24 14:44	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1.94 meq/L	Anion Sum: 1.96 meq/L	C/A Balance: -0.53 %	Calculated TDS: 118	TDS/cTDS: 1.20

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

Kathryn Salter
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0006**

Reported: 15-May-24 13:40

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	X419147	14-May-24	U

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

EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X419017	07-May-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X419017	07-May-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X419017	07-May-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X419017	07-May-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X419017	07-May-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X419017	07-May-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X419017	07-May-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X419017	07-May-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X419017	07-May-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X419017	07-May-24	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X419017	07-May-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X419017	07-May-24	
EPA 200.7	Sodium	mg/L	<0.12	0.12	0.50	X419017	07-May-24	U
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X419017	07-May-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X419020	13-May-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X419020	13-May-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X419020	13-May-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X419020	13-May-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X419020	13-May-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X419020	13-May-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X419020	13-May-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X419008	10-May-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X419008	10-May-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X419008	10-May-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X419008	10-May-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X419008	10-May-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X419008	10-May-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X419008	10-May-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X419008	10-May-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X419008	10-May-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X419008	10-May-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X419008	10-May-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X419008	10-May-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X419008	10-May-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X419008	10-May-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X419008	10-May-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X419008	10-May-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X419008	10-May-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X419008	10-May-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X419008	10-May-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X419008	10-May-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X419008	10-May-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X418295	10-May-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X418295	10-May-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X418295	10-May-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X418295	10-May-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X418295	10-May-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X418295	10-May-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X418295	10-May-24	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X418295	10-May-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X418295	10-May-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X418295	10-May-24	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0006**

Reported: 15-May-24 13:40

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	X419148	14-May-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X418274	06-May-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X419004	07-May-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X418240	03-May-24	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X419105	09-May-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X418219	02-May-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X418258	03-May-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X418228	02-May-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X418228	02-May-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X418228	02-May-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X418228	02-May-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X418215	03-May-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X418216	03-May-24	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X418151	01-May-24	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X418269	03-May-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X418197	01-May-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X418197	01-May-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X418197	01-May-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X418197	01-May-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X418197	01-May-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X418197	01-May-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	0.00208	0.00200	104	85 - 115	X419147	14-May-24	

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

EPA 200.7	Barium	mg/L	0.973	1.00	97.3	85 - 115	X419017	07-May-24	
EPA 200.7	Beryllium	mg/L	1.03	1.00	103	85 - 115	X419017	07-May-24	
EPA 200.7	Boron	mg/L	0.958	1.00	95.8	85 - 115	X419017	07-May-24	
EPA 200.7	Calcium	mg/L	19.2	20.0	96	85 - 115	X419017	07-May-24	
EPA 200.7	Chromium	mg/L	0.928	1.00	92.8	85 - 115	X419017	07-May-24	
EPA 200.7	Iron	mg/L	9.34	10.0	93.4	85 - 115	X419017	07-May-24	
EPA 200.7	Magnesium	mg/L	17.9	20.0	89.3	85 - 115	X419017	07-May-24	
EPA 200.7	Manganese	mg/L	0.915	1.00	91.5	85 - 115	X419017	07-May-24	
EPA 200.7	Molybdenum	mg/L	0.931	1.00	93.1	85 - 115	X419017	07-May-24	
EPA 200.7	Nickel	mg/L	0.894	1.00	89.4	85 - 115	X419017	07-May-24	
EPA 200.7	Phosphorus	mg/L	0.971	1.00	97.1	85 - 115	X419017	07-May-24	
EPA 200.7	Potassium	mg/L	19.3	20.0	96.7	85 - 115	X419017	07-May-24	
EPA 200.7	Sodium	mg/L	18.3	19.0	96.2	85 - 115	X419017	07-May-24	
EPA 200.7	Zinc	mg/L	0.923	1.00	92.3	85 - 115	X419017	07-May-24	
EPA 200.8	Antimony	mg/L	0.0242	0.0250	96.9	85 - 115	X419020	13-May-24	
EPA 200.8	Arsenic	mg/L	0.0239	0.0250	95.7	85 - 115	X419020	13-May-24	
EPA 200.8	Cadmium	mg/L	0.0234	0.0250	93.4	85 - 115	X419020	13-May-24	
EPA 200.8	Chromium	mg/L	0.0239	0.0250	95.6	85 - 115	X419020	13-May-24	

SVL holds the following certifications:

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

Work **Page 13 of 20**


Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0006**

Reported: 15-May-24 13:40

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	0.0250	0.0250	100	85 - 115	X419020	13-May-24	
EPA 200.8	Lead	mg/L	0.0240	0.0250	96.0	85 - 115	X419020	13-May-24	
EPA 200.8	Selenium	mg/L	0.0232	0.0250	93.0	85 - 115	X419020	13-May-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.01	1.00	101	85 - 115	X419008	10-May-24	
EPA 200.7	Barium	mg/L	0.993	1.00	99.3	85 - 115	X419008	10-May-24	
EPA 200.7	Beryllium	mg/L	0.989	1.00	98.9	85 - 115	X419008	10-May-24	
EPA 200.7	Boron	mg/L	1.00	1.00	100	85 - 115	X419008	10-May-24	
EPA 200.7	Cadmium	mg/L	0.977	1.00	97.7	85 - 115	X419008	10-May-24	
EPA 200.7	Calcium	mg/L	19.2	20.0	96.0	85 - 115	X419008	10-May-24	
EPA 200.7	Chromium	mg/L	1.00	1.00	100	85 - 115	X419008	10-May-24	
EPA 200.7	Cobalt	mg/L	0.960	1.00	96.0	85 - 115	X419008	10-May-24	
EPA 200.7	Copper	mg/L	0.992	1.00	99.2	85 - 115	X419008	10-May-24	
EPA 200.7	Iron	mg/L	9.68	10.0	96.8	85 - 115	X419008	10-May-24	
EPA 200.7	Lead	mg/L	0.964	1.00	96.4	85 - 115	X419008	10-May-24	
EPA 200.7	Lithium	mg/L	0.976	1.00	97.6	85 - 115	X419008	10-May-24	
EPA 200.7	Magnesium	mg/L	20.8	20.0	104	85 - 115	X419008	10-May-24	
EPA 200.7	Manganese	mg/L	0.991	1.00	99.1	85 - 115	X419008	10-May-24	
EPA 200.7	Molybdenum	mg/L	1.00	1.00	100	85 - 115	X419008	10-May-24	
EPA 200.7	Nickel	mg/L	0.957	1.00	95.7	85 - 115	X419008	10-May-24	
EPA 200.7	Potassium	mg/L	19.1	20.0	95.3	85 - 115	X419008	10-May-24	
EPA 200.7	Silver	mg/L	0.0510	0.0500	102	85 - 115	X419008	10-May-24	
EPA 200.7	Sodium	mg/L	18.4	19.0	96.6	85 - 115	X419008	10-May-24	
EPA 200.7	Vanadium	mg/L	0.999	1.00	99.9	85 - 115	X419008	10-May-24	
EPA 200.7	Zinc	mg/L	0.969	1.00	96.9	85 - 115	X419008	10-May-24	
EPA 200.8	Antimony	mg/L	0.0239	0.0250	95.4	85 - 115	X418295	10-May-24	
EPA 200.8	Arsenic	mg/L	0.0236	0.0250	94.4	85 - 115	X418295	10-May-24	
EPA 200.8	Cadmium	mg/L	0.0242	0.0250	96.8	85 - 115	X418295	10-May-24	
EPA 200.8	Chromium	mg/L	0.0236	0.0250	94.3	85 - 115	X418295	10-May-24	
EPA 200.8	Copper	mg/L	0.0235	0.0250	94.0	85 - 115	X418295	10-May-24	
EPA 200.8	Lead	mg/L	0.0241	0.0250	96.4	85 - 115	X418295	10-May-24	
EPA 200.8	Selenium	mg/L	0.0235	0.0250	94.1	85 - 115	X418295	10-May-24	
EPA 200.8	Silver	mg/L	0.0246	0.0250	98.3	85 - 115	X418295	10-May-24	
EPA 200.8	Thallium	mg/L	0.0238	0.0250	95.4	85 - 115	X418295	10-May-24	
EPA 200.8	Uranium	mg/L	0.0240	0.0250	96.1	85 - 115	X418295	10-May-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00205	0.00200	103	85 - 115	X419148	14-May-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.104	0.100	104	90 - 110	X418274	06-May-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X419004	07-May-24	
EPA 350.1	Ammonia as N	mg/L	1.02	1.00	102	90 - 110	X418240	03-May-24	
EPA 351.2	TKN	mg/L	7.41	8.00	92.7	90 - 110	X419105	09-May-24	
OIA 1677	Cyanide (WAD)	mg/L	0.110	0.100	110	90 - 110	X418219	02-May-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	897	884	102	95.4 - 104	X418258	03-May-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.80	9.93	98.7	96.4 - 105	X418228	02-May-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	96.4 - 105	X418228	02-May-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X418216	03-May-24	
SM 4500 S D	Sulfide	mg/L	0.524	0.500	105	85 - 115	X418151	01-May-24	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	0.102	0.100	102	80 - 120	X418269	03-May-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.05	3.00	102	90 - 110	X418197	01-May-24	

SVL holds the following certifications:

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

Work

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0006**

Reported: 15-May-24 13:40

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	1.97	2.00	98.7	90 - 110	X418197	01-May-24	
EPA 300.0	Nitrate as N	mg/L	2.02	2.00	101	90 - 110	X418197	01-May-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.53	4.50	101	90 - 110	X418197	01-May-24	
EPA 300.0	Nitrite as N	mg/L	2.51	2.50	101	90 - 110	X418197	01-May-24	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.0	105	90 - 110	X418197	01-May-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	X418258 - X4E0006-01	03-May-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	30.3	31.1	2.6	20	X418228 - X4E0006-02	02-May-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	30.3	31.1	2.6	20	X418228 - X4E0006-02	02-May-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X418228 - X4E0006-02	02-May-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X418228 - X4E0006-02	02-May-24	
SM 2540 C	Total Diss. Solids	mg/L	195	180	8.0	10	X418215 - X4E0006-04	03-May-24	
SM 2540 C	Total Diss. Solids	mg/L	298	293	1.7	10	X418215 - X4E0009-04	03-May-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X418216 - X4E0006-04	03-May-24	
SM 2540 D	Total Susp. Solids	mg/L	7.0	6.0	15.4	10	X418216 - X4E0009-04	03-May-24	D1,R2B
SM 4500 H B	pH @16.6°C	pH Units	6.7	6.7	1.2	20	X418228 - X4E0006-02	02-May-24	
SM 4500-O-G	Dissolved Oxygen	mg/L	6.4	6.3	1.6	20	X418253 - X4E0006-01	02-May-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	0.00205	<0.000093	0.00200	103	70 - 130	X419147 - X4E0073-05	14-May-24	
EPA 245.1	Mercury	mg/L	0.00207	<0.000093	0.00200	104	70 - 130	X419147 - X4E0073-06	14-May-24	

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

EPA 200.7	Barium	mg/L	1.04	0.0395	1.00	100	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Barium	mg/L	1.00	0.0124	1.00	99.0	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Beryllium	mg/L	1.06	<0.00200	1.00	106	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Beryllium	mg/L	1.07	<0.00200	1.00	107	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	101	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Boron	mg/L	1.04	<0.0400	1.00	103	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Calcium	mg/L	41.2	21.4	20.0	99	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Calcium	mg/L	118	98.6	20.0	98	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Chromium	mg/L	0.967	<0.0060	1.00	96.7	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Chromium	mg/L	0.986	0.0132	1.00	97.3	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Iron	mg/L	10.2	0.645	10.0	95.3	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Iron	mg/L	44.2	35.3	10.0	89.0	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Magnesium	mg/L	23.2	4.66	20.0	92.5	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Magnesium	mg/L	24.2	5.73	20.0	92.2	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Manganese	mg/L	0.982	0.0229	1.00	95.9	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Manganese	mg/L	2.33	1.37	1.00	96.5	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Molybdenum	mg/L	0.982	<0.0080	1.00	97.9	70 - 130	X419017 - X4E0006-01	07-May-24	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0006**

Reported: 15-May-24 13:40

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.7	Molybdenum	mg/L	0.994	<0.0080	1.00	99.4	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Nickel	mg/L	0.930	<0.0100	1.00	93.0	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Nickel	mg/L	1.20	0.238	1.00	96.5	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Phosphorus	mg/L	1.05	<0.050	1.00	103	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Phosphorus	mg/L	1.31	0.268	1.00	104	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Potassium	mg/L	21.7	2.06	20.0	98.4	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Potassium	mg/L	20.4	<0.50	20.0	102	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Sodium	mg/L	27.7	9.31	19.0	96.7	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Sodium	mg/L	20.4	0.97	19.0	102	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.7	Zinc	mg/L	0.964	<0.0100	1.00	96.4	70 - 130	X419017 - X4E0006-01	07-May-24	
EPA 200.7	Zinc	mg/L	4.20	3.31	1.00	89.2	70 - 130	X419017 - X4E0026-02	07-May-24	
EPA 200.8	Antimony	mg/L	0.0243	<0.00100	0.0250	97.0	70 - 130	X419020 - X4E0026-01	13-May-24	
EPA 200.8	Antimony	mg/L	0.106	0.0794	0.0250	107	70 - 130	X419020 - X4E0005-01	13-May-24	D1
EPA 200.8	Arsenic	mg/L	0.0260	0.00143	0.0250	98.3	70 - 130	X419020 - X4E0026-01	13-May-24	
EPA 200.8	Arsenic	mg/L	0.232	0.210	0.0250	89.8	70 - 130	X419020 - X4E0005-01	13-May-24	D1
EPA 200.8	Cadmium	mg/L	0.0237	<0.000100	0.0250	94.8	70 - 130	X419020 - X4E0026-01	13-May-24	
EPA 200.8	Cadmium	mg/L	0.0248	<0.000500	0.0250	99.2	70 - 130	X419020 - X4E0005-01	13-May-24	D1
EPA 200.8	Chromium	mg/L	0.0247	<0.00100	0.0250	97.8	70 - 130	X419020 - X4E0026-01	13-May-24	
EPA 200.8	Chromium	mg/L	0.0185	<0.00500	0.0250	73.9	70 - 130	X419020 - X4E0005-01	13-May-24	D1
EPA 200.8	Copper	mg/L	0.0265	<0.00040	0.0250	104	70 - 130	X419020 - X4E0026-01	13-May-24	
EPA 200.8	Copper	mg/L	0.0344	0.0142	0.0250	80.7	70 - 130	X419020 - X4E0005-01	13-May-24	D1
EPA 200.8	Lead	mg/L	0.0242	<0.00020	0.0250	96.8	70 - 130	X419020 - X4E0026-01	13-May-24	
EPA 200.8	Lead	mg/L	0.0252	0.00188	0.0250	93.1	70 - 130	X419020 - X4E0005-01	13-May-24	D1
EPA 200.8	Selenium	mg/L	0.0226	<0.00100	0.0250	90.3	70 - 130	X419020 - X4E0026-01	13-May-24	
EPA 200.8	Selenium	mg/L	0.0187	<0.00500	0.0250	74.6	70 - 130	X419020 - X4E0005-01	13-May-24	D1,M4

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.17	0.186	1.00	98.6	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Aluminum	mg/L	13.8	12.9	1.00	90.5	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Barium	mg/L	1.06	0.0387	1.00	102	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Barium	mg/L	1.00	<0.0020	1.00	100	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Beryllium	mg/L	0.981	<0.00200	1.00	98.1	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Beryllium	mg/L	1.03	0.0184	1.00	102	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	101	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Boron	mg/L	1.15	0.114	1.00	104	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Cadmium	mg/L	0.977	<0.0020	1.00	97.7	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Cadmium	mg/L	1.03	0.0232	1.00	101	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Calcium	mg/L	40.8	21.7	20.0	95.3	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Calcium	mg/L	512	501	20.0	0.30R>S	70 - 130	X419008 - X4E0072-03	10-May-24	M3
EPA 200.7	Chromium	mg/L	1.01	<0.0060	1.00	101	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Cobalt	mg/L	0.969	<0.0060	1.00	96.3	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Cobalt	mg/L	1.83	0.841	1.00	99.2	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Copper	mg/L	0.994	<0.0100	1.00	99.4	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Copper	mg/L	1.76	0.653	1.00	111	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Iron	mg/L	10.1	0.238	10.0	98.5	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Iron	mg/L	192	183	10.0	95.9	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Lead	mg/L	0.970	<0.0075	1.00	97.0	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Lead	mg/L	1.00	0.0187	1.00	98.6	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Lithium	mg/L	0.972	<0.040	1.00	97.2	70 - 130	X419008 - X4E0006-01	10-May-24	

SVL holds the following certifications:

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

Work


Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0006**

Reported: 15-May-24 13:40

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Lithium	mg/L	1.23	0.231	1.00	100	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Magnesium	mg/L	26.7	5.48	20.0	106	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Magnesium	mg/L	225	206	20.0	98.8	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Manganese	mg/L	1.01	0.0186	1.00	99.0	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Manganese	mg/L	167	153	1.00	0.30R>S	70 - 130	X419008 - X4E0072-03	10-May-24	D2,M4
EPA 200.7	Molybdenum	mg/L	0.988	<0.0080	1.00	98.8	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Molybdenum	mg/L	0.993	<0.0080	1.00	99.3	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Nickel	mg/L	0.961	<0.0100	1.00	96.1	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Nickel	mg/L	1.32	0.331	1.00	98.9	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Potassium	mg/L	21.6	2.14	20.0	97.4	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Potassium	mg/L	26.9	6.44	20.0	102	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Silver	mg/L	0.0504	<0.0050	0.0500	101	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Silver	mg/L	0.0549	<0.0050	0.0500	105	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Sodium	mg/L	28.1	9.58	19.0	97.2	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Sodium	mg/L	98.4	80.2	19.0	96.0	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Vanadium	mg/L	1.00	<0.0050	1.00	100	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Vanadium	mg/L	0.998	<0.0050	1.00	99.8	70 - 130	X419008 - X4E0072-03	10-May-24	
EPA 200.7	Zinc	mg/L	0.982	<0.0100	1.00	98.2	70 - 130	X419008 - X4E0006-01	10-May-24	
EPA 200.7	Zinc	mg/L	128	120	1.00	0.30R>S	70 - 130	X419008 - X4E0072-03	10-May-24	D2,M4
EPA 200.8	Antimony	mg/L	0.0252	<0.00100	0.0250	96.9	70 - 130	X418295 - X4D0517-01	10-May-24	
EPA 200.8	Antimony	mg/L	0.0251	<0.00100	0.0250	101	70 - 130	X418295 - X4E0017-01	10-May-24	
EPA 200.8	Arsenic	mg/L	0.0243	<0.00100	0.0250	97.2	70 - 130	X418295 - X4D0517-01	10-May-24	
EPA 200.8	Arsenic	mg/L	0.0189	0.00131	0.0250	70.3	70 - 130	X418295 - X4E0017-01	10-May-24	
EPA 200.8	Cadmium	mg/L	0.0239	<0.000100	0.0250	95.5	70 - 130	X418295 - X4D0517-01	10-May-24	
EPA 200.8	Cadmium	mg/L	0.0847	0.0605	0.0250	96.6	70 - 130	X418295 - X4E0017-01	10-May-24	
EPA 200.8	Chromium	mg/L	0.0243	0.00100	0.0250	93.4	70 - 130	X418295 - X4D0517-01	10-May-24	
EPA 200.8	Chromium	mg/L	0.0178	<0.00100	0.0250	69.8	70 - 130	X418295 - X4E0017-01	10-May-24	M2
EPA 200.8	Copper	mg/L	0.0240	0.00047	0.0250	94.0	70 - 130	X418295 - X4D0517-01	10-May-24	
EPA 200.8	Copper	mg/L	47.7	47.4	0.0250	0.30R>S	70 - 130	X418295 - X4E0017-01	13-May-24	D2,M4
EPA 200.8	Lead	mg/L	0.0230	<0.00020	0.0250	92.1	70 - 130	X418295 - X4D0517-01	10-May-24	
EPA 200.8	Lead	mg/L	0.0229	0.00095	0.0250	87.7	70 - 130	X418295 - X4E0017-01	10-May-24	
EPA 200.8	Selenium	mg/L	0.0254	<0.00100	0.0250	99.0	70 - 130	X418295 - X4D0517-01	10-May-24	
EPA 200.8	Selenium	mg/L	0.0187	0.00149	0.0250	68.8	70 - 130	X418295 - X4E0017-01	10-May-24	M2
EPA 200.8	Silver	mg/L	0.0231	<0.00008	0.0250	92.2	70 - 130	X418295 - X4D0517-01	10-May-24	
EPA 200.8	Silver	mg/L	0.0234	<0.00008	0.0250	93.6	70 - 130	X418295 - X4E0017-01	10-May-24	
EPA 200.8	Thallium	mg/L	0.0229	<0.000200	0.0250	91.7	70 - 130	X418295 - X4D0517-01	10-May-24	
EPA 200.8	Thallium	mg/L	0.0218	<0.000200	0.0250	87.4	70 - 130	X418295 - X4E0017-01	10-May-24	
EPA 200.8	Uranium	mg/L	0.0239	0.000442	0.0250	93.7	70 - 130	X418295 - X4D0517-01	10-May-24	
EPA 200.8	Uranium	mg/L	0.0380	0.0151	0.0250	91.8	70 - 130	X418295 - X4E0017-01	10-May-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00217	<0.000200	0.00200	108	70 - 130	X419148 - X4E0006-01	14-May-24	
EPA 245.1	Mercury	mg/L	0.0119	0.00973	0.00200	107	70 - 130	X419148 - X4E0041-02	14-May-24	D2

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.102	<0.0050	0.100	102	79 - 121	X418274 - X4D0346-12	06-May-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X419004 - X4D0500-01	07-May-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X419004 - X4E0006-01	07-May-24	
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	101	90 - 110	X418240 - X4D0500-01	03-May-24	
EPA 350.1	Ammonia as N	mg/L	1.09	<0.030	1.00	109	90 - 110	X418240 - X4E0006-01	03-May-24	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0006**

Reported: 15-May-24 13:40

Quality Control - MATRIX SPIKE Data (Continued)

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

Classical Chemistry Parameters (Continued)

EPA 351.2	TKN	mg/L	6.82	<0.50	8.00	85.3	90 - 110	X419105 - X4E0041-02	09-May-24	M2
EPA 351.2	TKN	mg/L	7.16	0.76	8.00	79.9	90 - 110	X419105 - X4E0041-04	09-May-24	M2
OIA 1677	Cyanide (WAD)	mg/L	0.112	<0.0050	0.100	110	82 - 118	X418219 - X4D0500-01	02-May-24	
SM 4500 S D	Sulfide	mg/L	0.209	<0.050	0.200	105	75 - 125	X418151 - X4D0478-01	01-May-24	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0186	<0.0050	0.0200	93.1	75 - 125	X418269 - X4D0447-01	03-May-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	8.66	5.44	3.00	107	90 - 110	X418197 - X4E0006-03	01-May-24	
EPA 300.0	Chloride	mg/L	3.27	0.23	3.00	102	90 - 110	X418197 - X4E0013-01	01-May-24	
EPA 300.0	Fluoride	mg/L	4.93	2.86	2.00	103	90 - 110	X418197 - X4E0006-03	01-May-24	
EPA 300.0	Fluoride	mg/L	2.02	<0.100	2.00	99.3	90 - 110	X418197 - X4E0013-01	01-May-24	
EPA 300.0	Nitrate as N	mg/L	2.21	0.190	2.00	101	90 - 110	X418197 - X4E0006-03	01-May-24	
EPA 300.0	Nitrate as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X418197 - X4E0013-01	01-May-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.25	0.190	4.00	101	90 - 110	X418197 - X4E0006-03	01-May-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.07	<0.100	4.00	102	90 - 110	X418197 - X4E0013-01	01-May-24	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X418197 - X4E0006-03	01-May-24	
EPA 300.0	Nitrite as N	mg/L	2.05	<0.050	2.00	102	90 - 110	X418197 - X4E0013-01	01-May-24	
EPA 300.0	Sulfate as SO4	mg/L	36.9	26.9	10.0	100	90 - 110	X418197 - X4E0006-03	01-May-24	
EPA 300.0	Sulfate as SO4	mg/L	12.1	1.57	10.0	105	90 - 110	X418197 - X4E0013-01	01-May-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	0.00204	0.00205	0.00200	0.4	20	102	X419147 - X4E0073-05	

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

EPA 200.7	Barium	mg/L	1.02	1.04	1.00	1.9	20	98.1	X419017 - X4E0006-01	
EPA 200.7	Beryllium	mg/L	1.05	1.06	1.00	0.4	20	105	X419017 - X4E0006-01	
EPA 200.7	Boron	mg/L	1.02	1.02	1.00	0.2	20	101	X419017 - X4E0006-01	
EPA 200.7	Calcium	mg/L	41.3	41.2	20.0	0.0	20	99	X419017 - X4E0006-01	
EPA 200.7	Chromium	mg/L	0.963	0.967	1.00	0.4	20	96.3	X419017 - X4E0006-01	
EPA 200.7	Iron	mg/L	10.2	10.2	10.0	0.1	20	95.4	X419017 - X4E0006-01	
EPA 200.7	Magnesium	mg/L	23.0	23.2	20.0	0.8	20	91.5	X419017 - X4E0006-01	
EPA 200.7	Manganese	mg/L	0.959	0.982	1.00	2.4	20	93.6	X419017 - X4E0006-01	
EPA 200.7	Molybdenum	mg/L	0.983	0.982	1.00	0.1	20	98.0	X419017 - X4E0006-01	
EPA 200.7	Nickel	mg/L	0.930	0.930	1.00	0.0	20	93.0	X419017 - X4E0006-01	
EPA 200.7	Phosphorus	mg/L	1.04	1.05	1.00	1.0	20	102	X419017 - X4E0006-01	
EPA 200.7	Potassium	mg/L	21.8	21.7	20.0	0.3	20	98.8	X419017 - X4E0006-01	
EPA 200.7	Sodium	mg/L	27.6	27.7	19.0	0.2	20	96.4	X419017 - X4E0006-01	
EPA 200.7	Zinc	mg/L	0.964	0.964	1.00	0.1	20	96.4	X419017 - X4E0006-01	
EPA 200.8	Antimony	mg/L	0.103	0.106	0.0250	2.5	20	96.6	X419020 - X4E0005-01	D1
EPA 200.8	Arsenic	mg/L	0.231	0.232	0.0250	0.3	20	86.6	X419020 - X4E0005-01	D1
EPA 200.8	Cadmium	mg/L	0.0238	0.0248	0.0250	4.3	20	95.1	X419020 - X4E0005-01	D1
EPA 200.8	Chromium	mg/L	0.0185	0.0185	0.0250	0.0	20	73.9	X419020 - X4E0005-01	D1
EPA 200.8	Copper	mg/L	0.0344	0.0344	0.0250	0.1	20	80.9	X419020 - X4E0005-01	D1
EPA 200.8	Lead	mg/L	0.0246	0.0252	0.0250	2.3	20	90.8	X419020 - X4E0005-01	D1
EPA 200.8	Selenium	mg/L	0.0136	0.0187	0.0250	31.0	20	54.6	X419020 - X4E0005-01	D1,M4



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0006**

Reported: 15-May-24 13:40

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	1.19	1.17	1.00	1.9	20	101	X419008 - X4E0006-01	
EPA 200.7	Barium	mg/L	1.07	1.06	1.00	1.6	20	103	X419008 - X4E0006-01	
EPA 200.7	Beryllium	mg/L	0.977	0.981	1.00	0.5	20	97.7	X419008 - X4E0006-01	
EPA 200.7	Boron	mg/L	1.04	1.02	1.00	1.5	20	102	X419008 - X4E0006-01	
EPA 200.7	Cadmium	mg/L	0.986	0.977	1.00	0.9	20	98.6	X419008 - X4E0006-01	
EPA 200.7	Calcium	mg/L	41.6	40.8	20.0	2.1	20	99.7	X419008 - X4E0006-01	
EPA 200.7	Chromium	mg/L	1.02	1.01	1.00	0.8	20	102	X419008 - X4E0006-01	
EPA 200.7	Cobalt	mg/L	0.981	0.969	1.00	1.2	20	97.5	X419008 - X4E0006-01	
EPA 200.7	Copper	mg/L	0.997	0.994	1.00	0.3	20	99.7	X419008 - X4E0006-01	
EPA 200.7	Iron	mg/L	10.2	10.1	10.0	1.0	20	99.5	X419008 - X4E0006-01	
EPA 200.7	Lead	mg/L	0.983	0.970	1.00	1.4	20	98.3	X419008 - X4E0006-01	
EPA 200.7	Lithium	mg/L	0.976	0.972	1.00	0.4	20	97.6	X419008 - X4E0006-01	
EPA 200.7	Magnesium	mg/L	27.5	26.7	20.0	2.9	20	110	X419008 - X4E0006-01	
EPA 200.7	Manganese	mg/L	1.03	1.01	1.00	1.9	20	101	X419008 - X4E0006-01	
EPA 200.7	Molybdenum	mg/L	1.00	0.988	1.00	1.2	20	100	X419008 - X4E0006-01	
EPA 200.7	Nickel	mg/L	0.971	0.961	1.00	1.1	20	97.1	X419008 - X4E0006-01	
EPA 200.7	Potassium	mg/L	21.8	21.6	20.0	0.9	20	98.4	X419008 - X4E0006-01	
EPA 200.7	Silver	mg/L	0.0512	0.0504	0.0500	1.5	20	102	X419008 - X4E0006-01	
EPA 200.7	Sodium	mg/L	28.3	28.1	19.0	0.9	20	98.6	X419008 - X4E0006-01	
EPA 200.7	Vanadium	mg/L	1.01	1.00	1.00	0.8	20	101	X419008 - X4E0006-01	
EPA 200.7	Zinc	mg/L	1.00	0.982	1.00	2.1	20	100	X419008 - X4E0006-01	
EPA 200.8	Antimony	mg/L	0.0251	0.0252	0.0250	0.2	20	96.7	X418295 - X4D0517-01	
EPA 200.8	Arsenic	mg/L	0.0241	0.0243	0.0250	0.7	20	96.5	X418295 - X4D0517-01	
EPA 200.8	Cadmium	mg/L	0.0240	0.0239	0.0250	0.6	20	96.1	X418295 - X4D0517-01	
EPA 200.8	Chromium	mg/L	0.0247	0.0243	0.0250	1.3	20	94.6	X418295 - X4D0517-01	
EPA 200.8	Copper	mg/L	0.0241	0.0240	0.0250	0.6	20	94.5	X418295 - X4D0517-01	
EPA 200.8	Lead	mg/L	0.0229	0.0230	0.0250	0.3	20	91.8	X418295 - X4D0517-01	
EPA 200.8	Selenium	mg/L	0.0255	0.0254	0.0250	0.4	20	99.4	X418295 - X4D0517-01	
EPA 200.8	Silver	mg/L	0.0233	0.0231	0.0250	0.9	20	93.1	X418295 - X4D0517-01	
EPA 200.8	Thallium	mg/L	0.0229	0.0229	0.0250	0.2	20	91.5	X418295 - X4D0517-01	
EPA 200.8	Uranium	mg/L	0.0238	0.0239	0.0250	0.2	20	93.5	X418295 - X4D0517-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00216	0.00217	0.00200	0.3	20	108	X419148 - X4E0006-01	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.100	0.102	0.100	2.0	11	100	X418274 - X4D0346-12	
EPA 335.4	Cyanide (total)	mg/L	0.0990	0.101	0.100	1.6	20	99.0	X419004 - X4D0500-01	
EPA 350.1	Ammonia as N	mg/L	1.05	1.01	1.00	3.6	20	105	X418240 - X4D0500-01	
EPA 351.2	TKN	mg/L	7.17	6.82	8.00	5.0	20	89.6	X419105 - X4E0041-02	M2
OIA 1677	Cyanide (WAD)	mg/L	0.107	0.112	0.100	4.6	11	105	X418219 - X4D0500-01	
SM 4500 S D	Sulfide	mg/L	0.181	0.209	0.200	14.4	20	90.5	X418151 - X4D0478-01	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0183	0.0186	0.0200	1.6	20	91.7	X418269 - X4D0447-01	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.31	3.27	3.00	1.2	20	103	X418197 - X4E0013-01	
EPA 300.0	Fluoride	mg/L	2.02	2.02	2.00	0.1	20	99.4	X418197 - X4E0013-01	
EPA 300.0	Nitrate as N	mg/L	2.04	2.02	2.00	1.3	20	102	X418197 - X4E0013-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.11	4.07	4.00	1.0	20	103	X418197 - X4E0013-01	
EPA 300.0	Nitrite as N	mg/L	2.06	2.05	2.00	0.7	20	103	X418197 - X4E0013-01	
EPA 300.0	Sulfate as SO4	mg/L	12.1	12.1	10.0	0.1	20	105	X418197 - X4E0013-01	



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Kellogg, ID 83837-0929

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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0006**

Reported: 15-May-24 13:40

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
H3	Sample was received and/or analysis requested past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
U	Less than 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: X4E0490				
Victor, CO 80860					Reported: 25-Jun-24 11:16				

Client Sample ID: **GV-02**

SVL Sample ID: **X4E0490-07 (Surface Water)**

Sampled: 29-May-24 15:30
Received: 30-May-24
Sampled By: SW

Sample Report Page 1 of 2

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		X422165	MAC	06/04/24 16:42	U

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

EPA 200.7	Barium	0.0269	mg/L	0.0020	0.0019		X423008	NMS	06/11/24 15:43	
EPA 200.7	Beryllium	0.0105	mg/L	0.00200	0.00080		X423008	NMS	06/11/24 15:43	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X423008	NMS	06/11/24 15:43	
EPA 200.7	Calcium	245	mg/L	0.100	0.069		X423008	NMS	06/11/24 15:43	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X423008	NMS	06/11/24 15:43	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X423008	NMS	06/11/24 15:43	
EPA 200.7	Magnesium	91.8	mg/L	0.500	0.090		X423008	NMS	06/11/24 15:43	
EPA 200.7	Manganese	19.5	mg/L	0.0080	0.0034		X423008	NMS	06/11/24 15:43	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X423008	NMS	06/11/24 15:43	
EPA 200.7	Nickel	0.438	mg/L	0.0100	0.0048		X423008	NMS	06/11/24 15:43	
EPA 200.7	Phosphorus	< 0.050	mg/L	0.050	0.013		X423008	NMS	06/11/24 15:43	
EPA 200.7	Potassium	9.28	mg/L	0.50	0.18		X423008	NMS	06/11/24 15:43	
EPA 200.7	Sodium	29.5	mg/L	0.50	0.12		X423008	NMS	06/11/24 15:43	
EPA 200.7	Zinc	8.49	mg/L	0.0100	0.0054		X423008	NMS	06/11/24 15:43	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X423206	SMU	06/12/24 12:39	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X423206	SMU	06/12/24 12:39	
EPA 200.8	Cadmium	0.0291	mg/L	0.000100	0.000063		X423206	SMU	06/12/24 12:39	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X423206	SMU	06/12/24 12:39	
EPA 200.8	Copper	0.00141	mg/L	0.00040	0.00036		X423206	SMU	06/12/24 12:39	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X423206	SMU	06/12/24 12:39	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X423206	SMU	06/12/24 12:39	
SM 2340 B	Hardness (as CaC03)	976	mg/L	2.31	0.543		N/A		06/11/24 15:43	

Metals (Dissolved)

EPA 200.7	Aluminum	7.99	mg/L	0.080	0.054		X423004	NMS	06/07/24 13:24	
EPA 200.7	Barium	0.0261	mg/L	0.0020	0.0019		X423004	NMS	06/07/24 13:24	
EPA 200.7	Beryllium	0.0105	mg/L	0.00200	0.00080		X423004	NMS	06/07/24 13:24	
EPA 200.7	Calcium	240	mg/L	0.100	0.069		X423004	NMS	06/07/24 13:24	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X423004	NMS	06/07/24 13:24	
EPA 200.7	Magnesium	91.5	mg/L	0.500	0.090		X423004	NMS	06/07/24 13:24	
EPA 200.7	Manganese	19.8	mg/L	0.0080	0.0034		X423004	NMS	06/07/24 13:24	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X423004	NMS	06/07/24 13:24	
EPA 200.7	Nickel	0.443	mg/L	0.0100	0.0048		X423004	NMS	06/07/24 13:24	
EPA 200.7	Potassium	9.28	mg/L	0.50	0.18		X423004	NMS	06/07/24 13:24	
EPA 200.7	Sodium	29.0	mg/L	0.50	0.12		X423004	NMS	06/07/24 13:24	
EPA 200.7	Zinc	8.58	mg/L	0.0100	0.0054		X423004	NMS	06/07/24 13:24	
EPA 200.8	Antimony	< 0.00200	mg/L	0.00200	0.00144	2	X423062	SMU	06/14/24 08:15	D1
EPA 200.8	Arsenic	< 0.00200	mg/L	0.00200	0.00042	2	X423062	SMU	06/14/24 08:15	D1
EPA 200.8	Cadmium	0.0311	mg/L	0.000200	0.000126	2	X423062	SMU	06/14/24 08:15	D1
EPA 200.8	Chromium	< 0.00200	mg/L	0.00200	0.00034	2	X423062	SMU	06/14/24 08:15	D1
EPA 200.8	Copper	0.00193	mg/L	0.00080	0.00072	2	X423062	SMU	06/14/24 08:15	D1
EPA 200.8	Lead	< 0.00040	mg/L	0.00040	0.00028	2	X423062	SMU	06/14/24 08:15	D1
EPA 200.8	Selenium	< 0.00200	mg/L	0.00200	0.00048	2	X423062	SMU	06/14/24 08:15	D1
EPA 200.8	Silver	< 0.000160	mg/L	0.000160	0.000122	2	X423062	SMU	06/14/24 08:15	D1
EPA 200.8	Thallium	< 0.000400	mg/L	0.000400	0.000160	2	X423062	SMU	06/14/24 08:15	D1
EPA 200.8	Uranium	0.000328	mg/L	0.000200	0.000104	2	X423062	SMU	06/14/24 08:15	D1



One Government Gulch - PO Box 929

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

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0490**

Reported: 25-Jun-24 11:16

Client Sample ID: **GV-02**

Sampled: 29-May-24 15:30

Received: 30-May-24

Sampled By: SW

SVL Sample ID: **X4E0490-07 (Surface Water)**

Sample Report Page 2 of 2

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		X422169	MAC	06/04/24 17:35	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X423066	DD	06/04/24 15:10	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		06/11/24 15:43	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X423197	JPM	06/07/24 12:14	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X423071	DD	06/05/24 11:52	
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X423011	JPM	06/04/24 10:31	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X424024	DD	06/11/24 09:53	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X423192	MWD	06/06/24 09:12	
SM 2320 B	Total Alkalinity	2.6	mg/L as CaCO3	1.0			X423012	MWD	06/03/24 17:11	
SM 2320 B	Bicarbonate	2.6	mg/L as CaCO3	1.0			X423012	MWD	06/03/24 17:11	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X423012	MWD	06/03/24 17:11	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X423012	MWD	06/03/24 17:11	
SM 2540 C	Total Diss. Solids	1550	mg/L	10			X422195	TJL	06/03/24 14:55	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X422196	TJL	06/03/24 15:25	
SM 4500 H B	pH @20.3°C	5.6	pH Units				X423012	MWD	06/03/24 17:11	H5
SM 4500 S D	Sulfide	< 0.100	mg/L	0.100	0.040	2	X422214	MCM	06/01/24 17:24	D1
SM 4500-O-G	Dissolved Oxygen	7.0	mg/L	0.1			X423059	TJL	06/03/24 16:35	H3,H5

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X424043	MCM	06/10/24 17:55	

Filtered Classical Chemistry Parameters

Calculation	Chromium(III)-Dissolved	< 0.00700	mg/L	0.00700	0.00224		N/A		06/14/24 08:15	

Anions by Ion Chromatography

EPA 300.0	Chloride	26.8	mg/L	10.0	1.10	50	X422155	RS	05/30/24 17:33	D2
EPA 300.0	Fluoride	10.4	mg/L	5.00	0.850	50	X422155	RS	05/30/24 17:33	D2
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X422155	RS	05/30/24 17:17	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X422155	RS	05/30/24 17:17	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X422155	RS	05/30/24 17:17	
EPA 300.0	Sulfate as SO4	1110	mg/L	15.0	9.00	50	X422155	RS	05/30/24 17:33	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 22.9 meq/L	Anion Sum: 24.5 meq/L	C/A Balance: -3.38 %	Calculated TDS: 1521	TDS/cTDS: 1.02

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					Project Name: Cripple Creek/Victor Water and Soil 2024				
Post Office Box 191					Work Order: X4E0490				
Victor, CO 80860					Reported: 25-Jun-24 11:16				

Client Sample ID: **GV-06**

SVL Sample ID: **X4E0490-08 (Surface Water)**

Sampled: 29-May-24 11:12
Received: 30-May-24
Sampled By: SW

Sample Report Page 1 of 2

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		X422165	MAC	06/04/24 16:44	U

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

EPA 200.7	Barium	0.121	mg/L	0.0020	0.0019		X423008	NMS	06/11/24 15:47	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X423008	NMS	06/11/24 15:47	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X423008	NMS	06/11/24 15:47	
EPA 200.7	Calcium	63.8	mg/L	0.100	0.069		X423008	NMS	06/11/24 15:47	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X423008	NMS	06/11/24 15:47	
EPA 200.7	Iron	1.33	mg/L	0.100	0.056		X423008	NMS	06/11/24 15:47	
EPA 200.7	Magnesium	15.3	mg/L	0.500	0.090		X423008	NMS	06/11/24 15:47	
EPA 200.7	Manganese	1.16	mg/L	0.0080	0.0034		X423008	NMS	06/11/24 15:47	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X423008	NMS	06/11/24 15:47	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X423008	NMS	06/11/24 15:47	
EPA 200.7	Phosphorus	< 0.050	mg/L	0.050	0.013		X423008	NMS	06/11/24 15:47	
EPA 200.7	Potassium	1.38	mg/L	0.50	0.18		X423008	NMS	06/11/24 15:47	
EPA 200.7	Sodium	13.9	mg/L	0.50	0.12		X423008	NMS	06/11/24 15:47	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X423008	NMS	06/11/24 15:47	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X423206	SMU	06/12/24 12:41	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X423206	SMU	06/12/24 12:41	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X423206	SMU	06/12/24 12:41	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X423206	SMU	06/12/24 12:41	
EPA 200.8	Copper	< 0.00040	mg/L	0.00040	0.00036		X423206	SMU	06/12/24 12:41	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X423206	SMU	06/12/24 12:41	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X423206	SMU	06/12/24 12:41	
SM 2340 B	Hardness (as CaC03)	219	mg/L	2.31	0.543		N/A		06/07/24 13:28	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X423004	NMS	06/07/24 13:28	
EPA 200.7	Barium	0.114	mg/L	0.0020	0.0019		X423004	NMS	06/07/24 13:28	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X423004	NMS	06/07/24 13:28	
EPA 200.7	Calcium	62.5	mg/L	0.100	0.069		X423004	NMS	06/07/24 13:28	
EPA 200.7	Iron	0.454	mg/L	0.100	0.056		X423004	NMS	06/07/24 13:28	
EPA 200.7	Magnesium	15.3	mg/L	0.500	0.090		X423004	NMS	06/07/24 13:28	
EPA 200.7	Manganese	1.02	mg/L	0.0080	0.0034		X423004	NMS	06/07/24 13:28	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X423004	NMS	06/07/24 13:28	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X423004	NMS	06/07/24 13:28	
EPA 200.7	Potassium	1.45	mg/L	0.50	0.18		X423004	NMS	06/07/24 13:28	
EPA 200.7	Sodium	13.6	mg/L	0.50	0.12		X423004	NMS	06/07/24 13:28	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X423004	NMS	06/07/24 13:28	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X423062	SMU	06/14/24 08:23	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X423062	SMU	06/14/24 08:23	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X423062	SMU	06/14/24 08:23	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X423062	SMU	06/14/24 08:23	
EPA 200.8	Copper	< 0.00040	mg/L	0.00040	0.00036		X423062	SMU	06/14/24 08:23	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X423062	SMU	06/14/24 08:23	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X423062	SMU	06/14/24 08:23	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X423062	SMU	06/14/24 08:23	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X423062	SMU	06/14/24 08:23	
EPA 200.8	Uranium	0.000349	mg/L	0.000100	0.000052		X423062	SMU	06/14/24 08:23	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0490**

Reported: 25-Jun-24 11:16

Client Sample ID: **GV-06**

Sampled: 29-May-24 11:12

Received: 30-May-24

Sampled By: SW

SVL Sample ID: **X4E0490-08 (Surface Water)****Sample Report Page 2 of 2**

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		X422169	MAC	06/04/24 17:37	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X423066	DD	06/04/24 15:12	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		06/11/24 15:47	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X423197	JPM	06/07/24 12:17	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X423071	DD	06/05/24 11:55	
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X423011	JPM	06/04/24 10:34	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X424024	DD	06/11/24 09:54	
SM 2310 B	Acidity to pH 8.3	-65.4	mg/L as CaCO3	10.0			X423192	MWD	06/06/24 09:12	
SM 2320 B	Total Alkalinity	65.4	mg/L as CaCO3	1.0			X423012	MWD	06/03/24 17:15	
SM 2320 B	Bicarbonate	65.4	mg/L as CaCO3	1.0			X423012	MWD	06/03/24 17:15	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X423012	MWD	06/03/24 17:15	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X423012	MWD	06/03/24 17:15	
SM 2540 C	Total Diss. Solids	361	mg/L	10			X422195	TJL	06/03/24 14:55	
SM 2540 D	Total Susp. Solids	5.0	mg/L	5.0			X422196	TJL	06/03/24 15:25	
SM 4500 H B	pH @20.3°C	7.3	pH Units				X423012	MWD	06/03/24 17:15	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X422214	MCM	06/01/24 17:25	
SM 4500-O-G	Dissolved Oxygen	6.7	mg/L	0.1			X423059	TJL	06/03/24 16:35	H3,H5

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X424043	MCM	06/10/24 17:55	

Filtered Classical Chemistry Parameters

Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		06/14/24 08:23	

Anions by Ion Chromatography

EPA 300.0	Chloride	6.87	mg/L	0.20	0.02		X422155	RS	05/30/24 18:20	
EPA 300.0	Fluoride	0.782	mg/L	0.100	0.017		X422155	RS	05/30/24 18:20	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X422155	RS	05/30/24 18:20	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X422155	RS	05/30/24 18:20	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X422155	RS	05/30/24 18:20	
EPA 300.0	Sulfate as SO4	181	mg/L	3.00	1.80	10	X422155	RS	05/30/24 18:36	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 5.07 meq/L	Anion Sum: 5.31 meq/L	C/A Balance: -2.37 %	Calculated TDS: 322	TDS/cTDS: 1.12

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0490**

Reported: 25-Jun-24 11:16

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	X422165	04-Jun-24	U

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

EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X423008	11-Jun-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X423008	11-Jun-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X423008	11-Jun-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X423008	11-Jun-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X423008	11-Jun-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X423008	11-Jun-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X423008	11-Jun-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X423008	11-Jun-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X423008	11-Jun-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X423008	11-Jun-24	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X423008	11-Jun-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X423008	11-Jun-24	
EPA 200.7	Sodium	mg/L	<0.12	0.12	0.50	X423008	11-Jun-24	U
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X423008	11-Jun-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X423206	12-Jun-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X423206	12-Jun-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X423206	12-Jun-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X423206	12-Jun-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X423206	12-Jun-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X423206	12-Jun-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X423206	12-Jun-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X423004	07-Jun-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X423004	07-Jun-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X423004	07-Jun-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X423004	07-Jun-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X423004	07-Jun-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X423004	07-Jun-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X423004	07-Jun-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X423004	07-Jun-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X423004	07-Jun-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X423004	07-Jun-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X423004	07-Jun-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X423004	07-Jun-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X423004	07-Jun-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X423004	07-Jun-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X423004	07-Jun-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X423004	07-Jun-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X423004	07-Jun-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X423004	07-Jun-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X423004	07-Jun-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X423004	07-Jun-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X423004	07-Jun-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X423062	14-Jun-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X423062	14-Jun-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X423062	14-Jun-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X423062	14-Jun-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X423062	14-Jun-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X423062	14-Jun-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X423062	14-Jun-24	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X423062	14-Jun-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X423062	14-Jun-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X423062	14-Jun-24	

SVL holds the following certifications:

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

Work order Report Page 18 of 34

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0490**

Reported: 25-Jun-24 11:16

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X423066	04-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X423197	07-Jun-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X423071	05-Jun-24	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X423011	04-Jun-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X424024	11-Jun-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X423192	06-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X423012	03-Jun-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X423012	03-Jun-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X423012	03-Jun-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X423012	03-Jun-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X422195	03-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X422196	03-Jun-24	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X422214	01-Jun-24	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X424043	10-Jun-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X422155	30-May-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X422155	30-May-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X422155	30-May-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X422155	30-May-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X422155	30-May-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X422155	30-May-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	0.00207	0.00200	104	85 - 115	X422165	04-Jun-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Barium	mg/L	0.975	1.00	97.5	85 - 115	X423008	11-Jun-24	
EPA 200.7	Beryllium	mg/L	0.974	1.00	97.4	85 - 115	X423008	11-Jun-24	
EPA 200.7	Boron	mg/L	0.989	1.00	98.9	85 - 115	X423008	11-Jun-24	
EPA 200.7	Calcium	mg/L	19.8	20.0	99	85 - 115	X423008	11-Jun-24	
EPA 200.7	Chromium	mg/L	0.967	1.00	96.7	85 - 115	X423008	11-Jun-24	
EPA 200.7	Iron	mg/L	10.0	10.0	100	85 - 115	X423008	11-Jun-24	
EPA 200.7	Magnesium	mg/L	20.0	20.0	100	85 - 115	X423008	11-Jun-24	
EPA 200.7	Manganese	mg/L	0.963	1.00	96.3	85 - 115	X423008	11-Jun-24	
EPA 200.7	Molybdenum	mg/L	0.982	1.00	98.2	85 - 115	X423008	11-Jun-24	
EPA 200.7	Nickel	mg/L	0.935	1.00	93.5	85 - 115	X423008	11-Jun-24	
EPA 200.7	Phosphorus	mg/L	0.999	1.00	99.9	85 - 115	X423008	11-Jun-24	
EPA 200.7	Potassium	mg/L	19.4	20.0	97.0	85 - 115	X423008	11-Jun-24	
EPA 200.7	Sodium	mg/L	19.2	19.0	101	85 - 115	X423008	11-Jun-24	
EPA 200.7	Zinc	mg/L	0.957	1.00	95.7	85 - 115	X423008	11-Jun-24	
EPA 200.8	Antimony	mg/L	0.0243	0.0250	97.1	85 - 115	X423206	12-Jun-24	
EPA 200.8	Arsenic	mg/L	0.0251	0.0250	100	85 - 115	X423206	12-Jun-24	
EPA 200.8	Cadmium	mg/L	0.0245	0.0250	97.8	85 - 115	X423206	12-Jun-24	
EPA 200.8	Chromium	mg/L	0.0252	0.0250	101	85 - 115	X423206	12-Jun-24	
EPA 200.8	Copper	mg/L	0.0262	0.0250	105	85 - 115	X423206	12-Jun-24	
EPA 200.8	Lead	mg/L	0.0252	0.0250	101	85 - 115	X423206	12-Jun-24	
EPA 200.8	Selenium	mg/L	0.0243	0.0250	97.2	85 - 115	X423206	12-Jun-24	

SVL holds the following certifications:

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

Work order Report Page 19 of 34

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0490**

Reported: 25-Jun-24 11:16

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

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.04	1.00	104	85 - 115	X423004	07-Jun-24	
EPA 200.7	Barium	mg/L	1.06	1.00	106	85 - 115	X423004	07-Jun-24	
EPA 200.7	Beryllium	mg/L	1.05	1.00	105	85 - 115	X423004	07-Jun-24	
EPA 200.7	Boron	mg/L	1.07	1.00	107	85 - 115	X423004	07-Jun-24	
EPA 200.7	Cadmium	mg/L	1.06	1.00	106	85 - 115	X423004	07-Jun-24	
EPA 200.7	Calcium	mg/L	21.2	20.0	106	85 - 115	X423004	07-Jun-24	
EPA 200.7	Chromium	mg/L	1.06	1.00	106	85 - 115	X423004	07-Jun-24	
EPA 200.7	Cobalt	mg/L	1.04	1.00	104	85 - 115	X423004	07-Jun-24	
EPA 200.7	Copper	mg/L	1.04	1.00	104	85 - 115	X423004	07-Jun-24	
EPA 200.7	Iron	mg/L	10.6	10.0	106	85 - 115	X423004	07-Jun-24	
EPA 200.7	Lead	mg/L	1.06	1.00	106	85 - 115	X423004	07-Jun-24	
EPA 200.7	Lithium	mg/L	1.02	1.00	102	85 - 115	X423004	07-Jun-24	
EPA 200.7	Magnesium	mg/L	21.7	20.0	108	85 - 115	X423004	07-Jun-24	
EPA 200.7	Manganese	mg/L	1.04	1.00	104	85 - 115	X423004	07-Jun-24	
EPA 200.7	Molybdenum	mg/L	1.07	1.00	107	85 - 115	X423004	07-Jun-24	
EPA 200.7	Nickel	mg/L	1.04	1.00	104	85 - 115	X423004	07-Jun-24	
EPA 200.7	Potassium	mg/L	21.2	20.0	106	85 - 115	X423004	07-Jun-24	
EPA 200.7	Silver	mg/L	0.0536	0.0500	107	85 - 115	X423004	07-Jun-24	
EPA 200.7	Sodium	mg/L	20.3	19.0	107	85 - 115	X423004	07-Jun-24	
EPA 200.7	Vanadium	mg/L	1.07	1.00	107	85 - 115	X423004	07-Jun-24	
EPA 200.7	Zinc	mg/L	1.07	1.00	107	85 - 115	X423004	07-Jun-24	
EPA 200.8	Antimony	mg/L	0.0239	0.0250	95.6	85 - 115	X423062	14-Jun-24	
EPA 200.8	Arsenic	mg/L	0.0255	0.0250	102	85 - 115	X423062	14-Jun-24	
EPA 200.8	Cadmium	mg/L	0.0249	0.0250	99.5	85 - 115	X423062	14-Jun-24	
EPA 200.8	Chromium	mg/L	0.0254	0.0250	101	85 - 115	X423062	14-Jun-24	
EPA 200.8	Copper	mg/L	0.0250	0.0250	100	85 - 115	X423062	14-Jun-24	
EPA 200.8	Lead	mg/L	0.0254	0.0250	102	85 - 115	X423062	14-Jun-24	
EPA 200.8	Selenium	mg/L	0.0264	0.0250	106	85 - 115	X423062	14-Jun-24	
EPA 200.8	Silver	mg/L	0.0258	0.0250	103	85 - 115	X423062	14-Jun-24	
EPA 200.8	Thallium	mg/L	0.0253	0.0250	101	85 - 115	X423062	14-Jun-24	
EPA 200.8	Uranium	mg/L	0.0251	0.0250	100	85 - 115	X423062	14-Jun-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00199	0.00200	99.7	85 - 115	X422169	04-Jun-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.100	0.100	100	90 - 110	X423066	04-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X423197	07-Jun-24	
EPA 350.1	Ammonia as N	mg/L	0.974	1.00	97.4	90 - 110	X423071	05-Jun-24	
EPA 351.2	TKN	mg/L	7.62	8.00	95.2	90 - 110	X423011	04-Jun-24	
OIA 1677	Cyanide (WAD)	mg/L	0.104	0.100	104	90 - 110	X424024	11-Jun-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	880	884	99.5	95.4 - 104	X423192	06-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.80	9.93	98.7	96.4 - 105	X423012	03-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	96.4 - 105	X423012	03-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X422196	03-Jun-24	
SM 4500 S D	Sulfide	mg/L	0.478	0.500	95.6	85 - 115	X422214	01-Jun-24	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0978	0.100	97.8	80 - 120	X424043	10-Jun-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.11	3.00	104	90 - 110	X422155	30-May-24	
EPA 300.0	Fluoride	mg/L	2.03	2.00	102	90 - 110	X422155	30-May-24	
EPA 300.0	Nitrate as N	mg/L	2.09	2.00	104	90 - 110	X422155	30-May-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.67	4.50	104	90 - 110	X422155	30-May-24	
EPA 300.0	Nitrite as N	mg/L	2.58	2.50	103	90 - 110	X422155	30-May-24	
EPA 300.0	Sulfate as SO4	mg/L	10.9	10.0	109	90 - 110	X422155	30-May-24	

SVL holds the following certifications:

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

Work order Report Page 20 of 34

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0490**

Reported: 25-Jun-24 11:16

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	148000	148000	0.2	20	X423192 - X4E0490-01	06-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X423012 - X4E0490-02	03-Jun-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X423012 - X4E0490-02	03-Jun-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X423012 - X4E0490-02	03-Jun-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X423012 - X4E0490-02	03-Jun-24	
SM 2540 C	Total Diss. Solids	mg/L	262	262	0.0	10	X422195 - X4E0460-01	03-Jun-24	
SM 2540 C	Total Diss. Solids	mg/L	505	537	6.1	10	X422195 - X4E0490-04	03-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X422196 - X4E0490-04	03-Jun-24	
SM 4500 H B	pH @20.1°C	pH Units	2.3	2.3	0.0	20	X423012 - X4E0490-02	03-Jun-24	
SM 4500-O-G	Dissolved Oxygen	mg/L	7.1	7.0	1.4	20	X423059 - X4E0490-07	03-Jun-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	0.00216	0.000183	0.00200	98.7	70 - 130	X422165 - X4E0487-03	04-Jun-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	0.386	0.0029	1.00	38.3	70 - 130	X423008 - X4E0450-02	11-Jun-24	M2
EPA 200.7	Barium	mg/L	1.00	0.0405	1.00	96.0	70 - 130	X423008 - X4E0510-07	11-Jun-24	
EPA 200.7	Beryllium	mg/L	0.989	0.0184	1.00	97.0	70 - 130	X423008 - X4E0450-02	11-Jun-24	
EPA 200.7	Beryllium	mg/L	0.968	<0.00200	1.00	96.8	70 - 130	X423008 - X4E0510-07	11-Jun-24	
EPA 200.7	Boron	mg/L	1.41	0.392	1.00	101	70 - 130	X423008 - X4E0450-02	11-Jun-24	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	101	70 - 130	X423008 - X4E0510-07	11-Jun-24	
EPA 200.7	Calcium	mg/L	415	407	20.0	0.30R>S	70 - 130	X423008 - X4E0450-02	11-Jun-24	M3
EPA 200.7	Calcium	mg/L	62.6	42.5	20.0	101	70 - 130	X423008 - X4E0510-07	11-Jun-24	
EPA 200.7	Chromium	mg/L	0.935	<0.0060	1.00	93.5	70 - 130	X423008 - X4E0450-02	11-Jun-24	
EPA 200.7	Chromium	mg/L	0.957	<0.0060	1.00	95.7	70 - 130	X423008 - X4E0510-07	11-Jun-24	
EPA 200.7	Iron	mg/L	68.8	61.0	10.0	78.1	70 - 130	X423008 - X4E0450-02	11-Jun-24	
EPA 200.7	Iron	mg/L	9.97	<0.100	10.0	99.7	70 - 130	X423008 - X4E0510-07	11-Jun-24	
EPA 200.7	Magnesium	mg/L	34.4	14.6	20.0	99.1	70 - 130	X423008 - X4E0510-07	11-Jun-24	
EPA 200.7	Magnesium	mg/L	924	879	20.0	0.30R>S	70 - 130	X423008 - X4E0450-02	11-Jun-24	D2,M4
EPA 200.7	Manganese	mg/L	0.965	<0.0080	1.00	96.5	70 - 130	X423008 - X4E0510-07	11-Jun-24	
EPA 200.7	Manganese	mg/L	159	154	1.00	0.30R>S	70 - 130	X423008 - X4E0450-02	11-Jun-24	D2,M4
EPA 200.7	Molybdenum	mg/L	0.996	<0.0080	1.00	99.3	70 - 130	X423008 - X4E0450-02	11-Jun-24	
EPA 200.7	Molybdenum	mg/L	0.986	<0.0080	1.00	98.6	70 - 130	X423008 - X4E0510-07	11-Jun-24	
EPA 200.7	Nickel	mg/L	15.1	14.5	1.00	0.30R>S	70 - 130	X423008 - X4E0450-02	11-Jun-24	M2
EPA 200.7	Nickel	mg/L	0.926	<0.0100	1.00	92.6	70 - 130	X423008 - X4E0510-07	11-Jun-24	
EPA 200.7	Phosphorus	mg/L	1.10	0.062	1.00	104	70 - 130	X423008 - X4E0450-02	11-Jun-24	
EPA 200.7	Phosphorus	mg/L	1.14	0.122	1.00	102	70 - 130	X423008 - X4E0510-07	11-Jun-24	
EPA 200.7	Potassium	mg/L	24.9	4.17	20.0	104	70 - 130	X423008 - X4E0450-02	11-Jun-24	
EPA 200.7	Potassium	mg/L	22.8	3.43	20.0	97.1	70 - 130	X423008 - X4E0510-07	11-Jun-24	
EPA 200.7	Sodium	mg/L	51.9	32.3	19.0	103	70 - 130	X423008 - X4E0450-02	11-Jun-24	
EPA 200.7	Sodium	mg/L	35.3	16.8	19.0	97.5	70 - 130	X423008 - X4E0510-07	11-Jun-24	
EPA 200.7	Zinc	mg/L	0.971	0.0125	1.00	95.8	70 - 130	X423008 - X4E0510-07	11-Jun-24	
EPA 200.7	Zinc	mg/L	53.9	51.6	1.00	0.30R>S	70 - 130	X423008 - X4E0450-02	11-Jun-24	D2,M4
EPA 200.8	Antimony	mg/L	0.0250	<0.00100	0.0250	99.9	70 - 130	X423206 - X4E0486-04	12-Jun-24	
EPA 200.8	Antimony	mg/L	0.0252	<0.00100	0.0250	101	70 - 130	X423206 - X4E0509-03	12-Jun-24	
EPA 200.8	Arsenic	mg/L	0.0506	0.0259	0.0250	98.6	70 - 130	X423206 - X4E0486-04	12-Jun-24	

SVL holds the following certifications:

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

Work order Report Page 21 of 34



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net
Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0490**

Reported: 25-Jun-24 11:16

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 200.8	Arsenic	mg/L	0.0266	0.00163	0.0250	100	70 - 130	X423206 - X4E0509-03	12-Jun-24	
EPA 200.8	Cadmium	mg/L	0.0248	<0.000100	0.0250	99.4	70 - 130	X423206 - X4E0486-04	12-Jun-24	
EPA 200.8	Cadmium	mg/L	0.0252	<0.000100	0.0250	101	70 - 130	X423206 - X4E0509-03	12-Jun-24	
EPA 200.8	Chromium	mg/L	0.0240	<0.00100	0.0250	95.9	70 - 130	X423206 - X4E0486-04	12-Jun-24	
EPA 200.8	Chromium	mg/L	0.0245	<0.00100	0.0250	97.9	70 - 130	X423206 - X4E0509-03	12-Jun-24	
EPA 200.8	Copper	mg/L	0.0267	0.00294	0.0250	95.0	70 - 130	X423206 - X4E0486-04	12-Jun-24	
EPA 200.8	Copper	mg/L	0.0257	0.00182	0.0250	95.4	70 - 130	X423206 - X4E0509-03	12-Jun-24	
EPA 200.8	Lead	mg/L	0.0238	<0.00020	0.0250	95.4	70 - 130	X423206 - X4E0486-04	12-Jun-24	
EPA 200.8	Lead	mg/L	0.0245	0.00063	0.0250	95.5	70 - 130	X423206 - X4E0509-03	12-Jun-24	
EPA 200.8	Selenium	mg/L	0.0243	<0.00100	0.0250	93.8	70 - 130	X423206 - X4E0486-04	12-Jun-24	
EPA 200.8	Selenium	mg/L	0.0258	<0.00100	0.0250	100	70 - 130	X423206 - X4E0509-03	12-Jun-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	<0.080	1.00	101	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Aluminum	mg/L	1.04	<0.080	1.00	104	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Barium	mg/L	1.06	0.0379	1.00	102	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Barium	mg/L	1.09	0.0314	1.00	106	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Beryllium	mg/L	1.06	<0.00200	1.00	106	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Beryllium	mg/L	1.07	<0.00200	1.00	107	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Boron	mg/L	1.10	<0.0400	1.00	108	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Boron	mg/L	1.15	0.0485	1.00	110	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Cadmium	mg/L	1.03	<0.0020	1.00	103	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Cadmium	mg/L	1.04	<0.0020	1.00	104	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Calcium	mg/L	182	161	20.0	103	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Calcium	mg/L	131	104	20.0	0.30R>S	70 - 130	X423004 - X4E0509-03	07-Jun-24	M3
EPA 200.7	Chromium	mg/L	1.04	<0.0060	1.00	104	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Chromium	mg/L	1.07	<0.0060	1.00	107	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Cobalt	mg/L	1.01	<0.0060	1.00	100	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Cobalt	mg/L	1.01	<0.0060	1.00	101	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Copper	mg/L	1.04	<0.0100	1.00	104	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Copper	mg/L	1.06	<0.0100	1.00	106	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Iron	mg/L	10.2	<0.100	10.0	102	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Iron	mg/L	10.7	<0.100	10.0	107	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Lead	mg/L	1.02	<0.0075	1.00	102	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Lead	mg/L	1.03	<0.0075	1.00	103	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Lithium	mg/L	0.993	<0.040	1.00	99.3	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Lithium	mg/L	1.02	<0.040	1.00	102	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Magnesium	mg/L	36.7	16.9	20.0	99.2	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Magnesium	mg/L	48.5	25.7	20.0	114	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Manganese	mg/L	1.04	<0.0080	1.00	103	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Manganese	mg/L	1.10	0.0548	1.00	105	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Molybdenum	mg/L	1.07	0.0108	1.00	106	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Molybdenum	mg/L	1.07	<0.0080	1.00	107	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Nickel	mg/L	0.996	<0.0100	1.00	99.6	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Nickel	mg/L	1.00	<0.0100	1.00	100	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Potassium	mg/L	22.9	2.52	20.0	102	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Potassium	mg/L	24.3	2.73	20.0	108	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Silver	mg/L	0.0522	<0.0050	0.0500	104	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Silver	mg/L	0.0533	<0.0050	0.0500	107	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Sodium	mg/L	34.9	15.4	19.0	102	70 - 130	X423004 - X4E0433-01	07-Jun-24	

SVL holds the following certifications:

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

Work order Report Page 22 of 34

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0490**

Reported: 25-Jun-24 11:16

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	Sodium	mg/L	58.6	36.7	19.0	115	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Vanadium	mg/L	1.06	<0.0050	1.00	106	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Vanadium	mg/L	1.08	0.0051	1.00	108	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.7	Zinc	mg/L	1.06	<0.0100	1.00	105	70 - 130	X423004 - X4E0433-01	07-Jun-24	
EPA 200.7	Zinc	mg/L	1.05	<0.0100	1.00	105	70 - 130	X423004 - X4E0509-03	07-Jun-24	
EPA 200.8	Antimony	mg/L	0.0252	<0.00200	0.0250	101	70 - 130	X423062 - X4E0490-07	14-Jun-24	D1
EPA 200.8	Antimony	mg/L	0.0261	<0.00100	0.0250	104	70 - 130	X423062 - X4E0496-01	14-Jun-24	
EPA 200.8	Arsenic	mg/L	0.0238	<0.00200	0.0250	95.3	70 - 130	X423062 - X4E0490-07	14-Jun-24	D1
EPA 200.8	Arsenic	mg/L	0.0254	<0.00100	0.0250	101	70 - 130	X423062 - X4E0496-01	14-Jun-24	
EPA 200.8	Cadmium	mg/L	0.0580	0.0311	0.0250	108	70 - 130	X423062 - X4E0490-07	14-Jun-24	D1
EPA 200.8	Cadmium	mg/L	0.0257	<0.000100	0.0250	103	70 - 130	X423062 - X4E0496-01	14-Jun-24	
EPA 200.8	Chromium	mg/L	0.0240	<0.00200	0.0250	93.7	70 - 130	X423062 - X4E0490-07	14-Jun-24	D1
EPA 200.8	Chromium	mg/L	0.0260	<0.00100	0.0250	103	70 - 130	X423062 - X4E0496-01	14-Jun-24	
EPA 200.8	Copper	mg/L	0.0267	0.00193	0.0250	99.1	70 - 130	X423062 - X4E0490-07	14-Jun-24	D1
EPA 200.8	Copper	mg/L	0.0270	<0.00040	0.0250	108	70 - 130	X423062 - X4E0496-01	14-Jun-24	
EPA 200.8	Lead	mg/L	0.0243	<0.00040	0.0250	97.1	70 - 130	X423062 - X4E0490-07	14-Jun-24	D1
EPA 200.8	Lead	mg/L	0.0244	<0.00020	0.0250	97.6	70 - 130	X423062 - X4E0496-01	14-Jun-24	
EPA 200.8	Selenium	mg/L	0.0227	<0.00200	0.0250	90.8	70 - 130	X423062 - X4E0490-07	14-Jun-24	D1
EPA 200.8	Selenium	mg/L	0.0224	<0.00100	0.0250	89.6	70 - 130	X423062 - X4E0496-01	14-Jun-24	
EPA 200.8	Silver	mg/L	0.0245	<0.000160	0.0250	98.2	70 - 130	X423062 - X4E0490-07	14-Jun-24	D1
EPA 200.8	Silver	mg/L	0.0253	<0.00008	0.0250	101	70 - 130	X423062 - X4E0496-01	14-Jun-24	
EPA 200.8	Thallium	mg/L	0.0239	<0.000400	0.0250	95.4	70 - 130	X423062 - X4E0490-07	14-Jun-24	D1
EPA 200.8	Thallium	mg/L	0.0244	<0.000200	0.0250	97.4	70 - 130	X423062 - X4E0496-01	14-Jun-24	
EPA 200.8	Uranium	mg/L	0.0247	0.000328	0.0250	97.4	70 - 130	X423062 - X4E0490-07	14-Jun-24	D1
EPA 200.8	Uranium	mg/L	0.0254	0.000146	0.0250	101	70 - 130	X423062 - X4E0496-01	14-Jun-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00201	<0.000200	0.00200	100	70 - 130	X422169 - X4E0450-01	04-Jun-24	
EPA 245.1	Mercury	mg/L	0.00209	<0.000200	0.00200	99.4	70 - 130	X422169 - X4E0490-03	04-Jun-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0880	<0.0050	0.100	88.0	79 - 121	X423066 - X4E0481-10	04-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X423197 - X4E0490-05	07-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.105	<0.0050	0.100	105	90 - 110	X423197 - X4E0490-04	07-Jun-24	
EPA 350.1	Ammonia as N	mg/L	1.06	<0.030	1.00	105	90 - 110	X423071 - X4E0487-05	05-Jun-24	
EPA 350.1	Ammonia as N	mg/L	1.24	0.084	1.00	115	90 - 110	X423071 - X4E0487-04	05-Jun-24	M1
EPA 351.2	TKN	mg/L	8.11	<0.50	8.00	101	90 - 110	X423011 - X4E0450-04	04-Jun-24	
EPA 351.2	TKN	mg/L	7.87	0.62	8.00	90.6	90 - 110	X423011 - X4E0450-03	04-Jun-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0990	<0.0050	0.100	99.0	82 - 118	X424024 - X4E0490-03	11-Jun-24	
SM 4500 S D	Sulfide	mg/L	0.176	<0.050	0.200	88.0	75 - 125	X422214 - X4E0458-01	01-Jun-24	
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0212	<0.0050	0.0200	106	75 - 125	X424043 - X4F0078-09	10-Jun-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.41	1.21	3.00	107	90 - 110	X422155 - X4E0483-01	30-May-24	
EPA 300.0	Chloride	mg/L	25.6	23.3	3.00	0.30R>S	90 - 110	X422155 - X4E0499-01	30-May-24	D2,M4
EPA 300.0	Fluoride	mg/L	2.08	<0.100	2.00	102	90 - 110	X422155 - X4E0483-01	30-May-24	
EPA 300.0	Fluoride	mg/L	2.07	0.118	2.00	97.4	90 - 110	X422155 - X4E0499-01	30-May-24	
EPA 300.0	Nitrate as N	mg/L	2.26	0.169	2.00	104	90 - 110	X422155 - X4E0483-01	30-May-24	
EPA 300.0	Nitrate as N	mg/L	12.0	10.2	2.00	90.5	90 - 110	X422155 - X4E0499-01	30-May-24	D2

SVL holds the following certifications:

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

Work order Report Page 23 of 34

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0490**

Reported: 25-Jun-24 11:16

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	Nitrate+Nitrite as N	mg/L	4.36	0.169	4.00	105	90 - 110	X422155 - X4E0483-01	30-May-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	14.2	10.3	4.00	97.4	90 - 110	X422155 - X4E0499-01	30-May-24	
EPA 300.0	Nitrite as N	mg/L	2.10	<0.050	2.00	105	90 - 110	X422155 - X4E0483-01	30-May-24	
EPA 300.0	Nitrite as N	mg/L	2.15	0.063	2.00	104	90 - 110	X422155 - X4E0499-01	30-May-24	
EPA 300.0	Sulfate as SO4	mg/L	12.4	1.66	10.0	107	90 - 110	X422155 - X4E0483-01	30-May-24	
EPA 300.0	Sulfate as SO4	mg/L	94.9	87.1	10.0	0.30R>S	90 - 110	X422155 - X4E0499-01	30-May-24	D2,M4

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes

Metals (Total)

EPA 245.1	Mercury	mg/L	0.00219	0.00216	0.00200	1.6	20	100	X422165 - X4E0487-03	

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

EPA 200.7	Barium	mg/L	0.351	0.386	1.00	9.7	20	34.8	X423008 - X4E0450-02	M2
EPA 200.7	Beryllium	mg/L	1.01	0.989	1.00	1.7	20	98.7	X423008 - X4E0450-02	
EPA 200.7	Boron	mg/L	1.41	1.41	1.00	0.6	20	102	X423008 - X4E0450-02	
EPA 200.7	Calcium	mg/L	428	415	20.0	3.0	20	104	X423008 - X4E0450-02	
EPA 200.7	Chromium	mg/L	0.934	0.935	1.00	0.1	20	93.4	X423008 - X4E0450-02	
EPA 200.7	Iron	mg/L	69.6	68.8	10.0	1.2	20	86.1	X423008 - X4E0450-02	
EPA 200.7	Magnesium	mg/L	930	924	20.0	0.6	20	0.30R>S	X423008 - X4E0450-02	D2,M4
EPA 200.7	Manganese	mg/L	160	159	1.00	1.0	20	0.30R>S	X423008 - X4E0450-02	D2,M4
EPA 200.7	Molybdenum	mg/L	0.999	0.996	1.00	0.2	20	99.5	X423008 - X4E0450-02	
EPA 200.7	Nickel	mg/L	15.2	15.1	1.00	0.6	20	0.30R>S	X423008 - X4E0450-02	M2
EPA 200.7	Phosphorus	mg/L	1.11	1.10	1.00	0.6	20	105	X423008 - X4E0450-02	
EPA 200.7	Potassium	mg/L	25.5	24.9	20.0	2.1	20	107	X423008 - X4E0450-02	
EPA 200.7	Sodium	mg/L	53.2	51.9	19.0	2.5	20	110	X423008 - X4E0450-02	
EPA 200.7	Zinc	mg/L	53.2	53.9	1.00	1.2	20	0.30R>S	X423008 - X4E0450-02	D2,M4
EPA 200.8	Antimony	mg/L	0.0246	0.0250	0.0250	1.5	20	98.4	X423206 - X4E0486-04	
EPA 200.8	Arsenic	mg/L	0.0519	0.0506	0.0250	2.7	20	104	X423206 - X4E0486-04	
EPA 200.8	Cadmium	mg/L	0.0239	0.0248	0.0250	3.7	20	95.8	X423206 - X4E0486-04	
EPA 200.8	Chromium	mg/L	0.0245	0.0240	0.0250	2.1	20	98.0	X423206 - X4E0486-04	
EPA 200.8	Copper	mg/L	0.0273	0.0267	0.0250	2.1	20	97.3	X423206 - X4E0486-04	
EPA 200.8	Lead	mg/L	0.0235	0.0238	0.0250	1.3	20	94.2	X423206 - X4E0486-04	
EPA 200.8	Selenium	mg/L	0.0235	0.0243	0.0250	3.5	20	90.5	X423206 - X4E0486-04	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.04	1.01	1.00	2.5	20	104	X423004 - X4E0433-01	
EPA 200.7	Barium	mg/L	1.10	1.06	1.00	3.9	20	106	X423004 - X4E0433-01	
EPA 200.7	Beryllium	mg/L	1.08	1.06	1.00	1.9	20	108	X423004 - X4E0433-01	
EPA 200.7	Boron	mg/L	1.13	1.10	1.00	2.6	20	111	X423004 - X4E0433-01	
EPA 200.7	Cadmium	mg/L	1.06	1.03	1.00	2.5	20	106	X423004 - X4E0433-01	
EPA 200.7	Calcium	mg/L	182	182	20.0	0.2	20	104	X423004 - X4E0433-01	
EPA 200.7	Chromium	mg/L	1.08	1.04	1.00	3.2	20	108	X423004 - X4E0433-01	
EPA 200.7	Cobalt	mg/L	1.03	1.01	1.00	2.5	20	103	X423004 - X4E0433-01	
EPA 200.7	Copper	mg/L	1.08	1.04	1.00	3.2	20	107	X423004 - X4E0433-01	
EPA 200.7	Iron	mg/L	10.7	10.2	10.0	5.6	20	107	X423004 - X4E0433-01	
EPA 200.7	Lead	mg/L	1.05	1.02	1.00	2.7	20	105	X423004 - X4E0433-01	
EPA 200.7	Lithium	mg/L	1.02	0.993	1.00	2.6	20	102	X423004 - X4E0433-01	
EPA 200.7	Magnesium	mg/L	38.3	36.7	20.0	4.2	20	107	X423004 - X4E0433-01	
EPA 200.7	Manganese	mg/L	1.07	1.04	1.00	3.4	20	107	X423004 - X4E0433-01	
EPA 200.7	Molybdenum	mg/L	1.10	1.07	1.00	3.0	20	109	X423004 - X4E0433-01	
EPA 200.7	Nickel	mg/L	1.02	0.996	1.00	2.5	20	102	X423004 - X4E0433-01	
EPA 200.7	Potassium	mg/L	24.0	22.9	20.0	4.7	20	107	X423004 - X4E0433-01	

SVL holds the following certifications:

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

Work order Report Page 24 of 34



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Kellogg, ID 83837-0929

(208) 784-1258

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0490**

Reported: 25-Jun-24 11:16

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	Silver	mg/L	0.0533	0.0522	0.0500	2.1	20	107	X423004 - X4E0433-01	
EPA 200.7	Sodium	mg/L	36.0	34.9	19.0	3.2	20	108	X423004 - X4E0433-01	
EPA 200.7	Vanadium	mg/L	1.10	1.06	1.00	3.5	20	110	X423004 - X4E0433-01	
EPA 200.7	Zinc	mg/L	1.08	1.06	1.00	2.2	20	107	X423004 - X4E0433-01	
EPA 200.8	Antimony	mg/L	0.0252	0.0252	0.0250	0.1	20	101	X423062 - X4E0490-07	D1
EPA 200.8	Arsenic	mg/L	0.0245	0.0238	0.0250	2.9	20	98.1	X423062 - X4E0490-07	D1
EPA 200.8	Cadmium	mg/L	0.0578	0.0580	0.0250	0.2	20	107	X423062 - X4E0490-07	D1
EPA 200.8	Chromium	mg/L	0.0249	0.0240	0.0250	3.7	20	97.3	X423062 - X4E0490-07	D1
EPA 200.8	Copper	mg/L	0.0272	0.0267	0.0250	1.7	20	101	X423062 - X4E0490-07	D1
EPA 200.8	Lead	mg/L	0.0243	0.0243	0.0250	0.3	20	97.3	X423062 - X4E0490-07	D1
EPA 200.8	Selenium	mg/L	0.0221	0.0227	0.0250	2.5	20	88.5	X423062 - X4E0490-07	D1
EPA 200.8	Silver	mg/L	0.0245	0.0245	0.0250	0.3	20	97.9	X423062 - X4E0490-07	D1
EPA 200.8	Thallium	mg/L	0.0239	0.0239	0.0250	0.3	20	95.7	X423062 - X4E0490-07	D1
EPA 200.8	Uranium	mg/L	0.0246	0.0247	0.0250	0.3	20	97.2	X423062 - X4E0490-07	D1

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00204	0.00201	0.00200	1.5	20	102	X422169 - X4E0450-01	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0920	0.0880	0.100	4.4	11	92.0	X423066 - X4E0481-10	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.102	0.100	0.1	20	102	X423197 - X4E0490-05	
EPA 350.1	Ammonia as N	mg/L	1.05	1.06	1.00	1.1	20	103	X423071 - X4E0487-05	
EPA 351.2	TKN	mg/L	8.21	8.11	8.00	1.2	20	103	X423011 - X4E0450-04	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.0990	0.100	2.0	11	101	X424024 - X4E0490-03	
SM 4500 S D	Sulfide	mg/L	0.169	0.176	0.200	4.1	20	84.5	X422214 - X4E0458-01	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0232	0.0212	0.0200	8.9	20	116	X424043 - X4F0078-09	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	4.45	4.41	3.00	0.9	20	108	X422155 - X4E0483-01	
EPA 300.0	Fluoride	mg/L	2.09	2.08	2.00	0.7	20	102	X422155 - X4E0483-01	
EPA 300.0	Nitrate as N	mg/L	2.27	2.26	2.00	0.4	20	105	X422155 - X4E0483-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.37	4.36	4.00	0.4	20	105	X422155 - X4E0483-01	
EPA 300.0	Nitrite as N	mg/L	2.10	2.10	2.00	0.3	20	105	X422155 - X4E0483-01	
EPA 300.0	Sulfate as SO4	mg/L	12.4	12.4	10.0	0.0	20	107	X422155 - X4E0483-01	



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Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0490**

Reported: 25-Jun-24 11:16

HOLDING TIME SUMMARY**ASTM D7237**Laboratory: **SVL Analytical, Inc.**SDG: **X4E0490**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
Seep-1	05/29/24	05/30/24	06/04/24	6	14	06/04/24	6	14	
Seep-2	05/29/24	05/30/24	06/04/24	6	14	06/04/24	6	14	
EMP-16	05/29/24	05/30/24	06/04/24	6	14	06/04/24	6	14	
EMP-17	05/29/24	05/30/24	06/04/24	6	14	06/04/24	6	14	
EMP-17A	05/29/24	05/30/24	06/04/24	6	14	06/04/24	6	14	
EMP-17B	05/29/24	05/30/24	06/04/24	6	14	06/04/24	6	14	
GV-02	05/29/24	05/30/24	06/04/24	6	14	06/04/24	6	14	
GV-06	05/29/24	05/30/24	06/04/24	6	14	06/04/24	6	14	

HOLDING TIME SUMMARY**Calculation**Laboratory: **SVL Analytical, Inc.**SDG: **X4E0490**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GV-02	05/29/24 15:30	05/30/24	06/10/24 12:58	11.9	1.0		1.0		*
GV-02	05/29/24 15:30	05/30/24	06/10/24 12:58	11.9	1.0		4.0		*
GV-06	05/29/24 11:12	05/30/24	06/10/24 12:58	12.1	1.0		1.0		*
GV-06	05/29/24 11:12	05/30/24	06/10/24 12:58	12.1	1.0		4.0		*



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Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0490**

Reported: 25-Jun-24 11:16

HOLDING TIME SUMMARY**EPA 245.1**Laboratory: **SVL Analytical, Inc.**SDG: **X4E0490**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
Seep-1	05/29/24	05/30/24	06/04/24	6	28	06/04/24	6	28	
Seep-2	05/29/24	05/30/24	06/04/24	6	28	06/04/24	6	28	
EMP-16	05/29/24	05/30/24	06/04/24	6	28	06/04/24	6	28	
EMP-17	05/29/24	05/30/24	06/04/24	6	28	06/04/24	6	28	
EMP-17A	05/29/24	05/30/24	06/04/24	6	28	06/04/24	6	28	
EMP-17B	05/29/24	05/30/24	06/04/24	6	28	06/04/24	6	28	
GV-02	05/29/24	05/30/24	06/04/24	6	28	06/04/24	6	28	
GV-02	05/29/24	05/30/24	06/04/24	6	28	06/04/24	6	28	
GV-06	05/29/24	05/30/24	06/04/24	6	28	06/04/24	6	28	
GV-06	05/29/24	05/30/24	06/04/24	6	28	06/04/24	6	28	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0490**

Reported: 25-Jun-24 11:16

HOLDING TIME SUMMARY**EPA 300.0**Laboratory: **SVL Analytical, Inc.**SDG: **X4E0490**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
Seep-1	05/29/24 14:35	05/30/24	05/30/24 12:01	0.9	2.0	05/30/24 13:35	1.0	2.0	
Seep-1	05/29/24	05/30/24	05/30/24	1	28	05/30/24	1	28	
Seep-1	05/29/24	05/30/24	05/30/24	1	28	05/30/24	1	28	
Seep-2	05/29/24 14:55	05/30/24	05/30/24 12:01	0.9	2.0	05/30/24 14:06	1.0	2.0	
Seep-2	05/29/24	05/30/24	05/30/24	1	28	05/30/24	1	28	
Seep-2	05/29/24	05/30/24	05/30/24	1	28	05/30/24	1	28	
EMP-16	05/29/24 14:05	05/30/24	05/30/24 12:01	1.0	2.0	05/30/24 15:10	1.1	2.0	
EMP-16	05/29/24	05/30/24	05/30/24	1	28	05/30/24	1	28	
EMP-16	05/29/24	05/30/24	05/30/24	1	28	05/30/24	1	28	
EMP-17	05/29/24 13:20	05/30/24	05/30/24 12:01	1.0	2.0	05/30/24 15:42	1.1	2.0	
EMP-17	05/29/24	05/30/24	05/30/24	1	28	05/30/24	1	28	
EMP-17	05/29/24	05/30/24	05/30/24	1	28	05/30/24	1	28	
EMP-17A	05/29/24 13:40	05/30/24	05/30/24 12:01	1.0	2.0	05/30/24 16:13	1.1	2.0	
EMP-17A	05/29/24	05/30/24	05/30/24	1	28	05/30/24	1	28	
EMP-17A	05/29/24	05/30/24	05/30/24	1	28	05/30/24	1	28	
EMP-17B	05/29/24 13:00	05/30/24	05/30/24 12:01	1.0	2.0	05/30/24 16:45	1.2	2.0	
EMP-17B	05/29/24	05/30/24	05/30/24	1	28	05/30/24	1	28	
EMP-17B	05/29/24	05/30/24	05/30/24	1	28	05/30/24	1	28	
GV-02	05/29/24 15:30	05/30/24	05/30/24 12:01	0.9	2.0	05/30/24 17:17	1.1	2.0	
GV-02	05/29/24	05/30/24	05/30/24	1	28	05/30/24	1	28	
GV-06	05/29/24 11:12	05/30/24	05/30/24 12:01	1.1	2.0	05/30/24 18:20	1.3	2.0	
GV-06	05/29/24	05/30/24	05/30/24	1	28	05/30/24	1	28	
GV-06	05/29/24	05/30/24	05/30/24	1	28	05/30/24	1	28	

**Newmont - Cripple Creek & Victor**

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Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0490**

Reported: 25-Jun-24 11:16

HOLDING TIME SUMMARY**EPA 335.4**Laboratory: **SVL Analytical, Inc.**SDG: **X4E0490**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
Seep-1	05/29/24	05/30/24	06/06/24	8	14	06/07/24	9	14	
Seep-2	05/29/24	05/30/24	06/06/24	8	14	06/07/24	9	14	
EMP-16	05/29/24	05/30/24	06/06/24	8	14	06/07/24	9	14	
EMP-17	05/29/24	05/30/24	06/06/24	8	14	06/07/24	9	14	
EMP-17A	05/29/24	05/30/24	06/06/24	8	14	06/07/24	9	14	
EMP-17B	05/29/24	05/30/24	06/06/24	8	14	06/07/24	9	14	
GV-02	05/29/24	05/30/24	06/06/24	8	14	06/07/24	9	14	
GV-06	05/29/24	05/30/24	06/06/24	8	14	06/07/24	9	14	

HOLDING TIME SUMMARY**EPA 350.1**Laboratory: **SVL Analytical, Inc.**SDG: **X4E0490**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
Seep-1	05/29/24	05/30/24	06/04/24	6	28	06/05/24	7	28	
Seep-2	05/29/24	05/30/24	06/04/24	6	28	06/05/24	7	28	
EMP-16	05/29/24	05/30/24	06/04/24	6	28	06/05/24	7	28	
EMP-17	05/29/24	05/30/24	06/04/24	6	28	06/05/24	7	28	
EMP-17A	05/29/24	05/30/24	06/04/24	6	28	06/05/24	7	28	
EMP-17B	05/29/24	05/30/24	06/04/24	6	28	06/05/24	7	28	
GV-02	05/29/24	05/30/24	06/04/24	6	28	06/05/24	7	28	
GV-06	05/29/24	05/30/24	06/04/24	6	28	06/05/24	7	28	

HOLDING TIME SUMMARY**EPA 351.2**Laboratory: **SVL Analytical, Inc.**SDG: **X4E0490**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GV-02	05/29/24	05/30/24	06/03/24	5	28	06/04/24	6	28	
GV-06	05/29/24	05/30/24	06/03/24	5	28	06/04/24	6	28	

SVL holds the following certifications:

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

Work order Report Page 29 of 34

**Newmont - Cripple Creek & Victor**

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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0490**

Reported: 25-Jun-24 11:16

HOLDING TIME SUMMARY**OIA 1677**Laboratory: **SVL Analytical, Inc.**SDG: **X4E0490**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
Seep-1	05/29/24	05/30/24	06/10/24	12	14	06/11/24	13	14	
Seep-2	05/29/24	05/30/24	06/10/24	12	14	06/11/24	13	14	
EMP-16	05/29/24	05/30/24	06/10/24	12	14	06/11/24	13	14	
EMP-17	05/29/24	05/30/24	06/10/24	12	14	06/11/24	13	14	
EMP-17A	05/29/24	05/30/24	06/10/24	12	14	06/11/24	13	14	
EMP-17B	05/29/24	05/30/24	06/10/24	12	14	06/11/24	13	14	
GV-02	05/29/24	05/30/24	06/10/24	12	14	06/11/24	13	14	
GV-06	05/29/24	05/30/24	06/10/24	12	14	06/11/24	13	14	

HOLDING TIME SUMMARY**SM 2310 B**Laboratory: **SVL Analytical, Inc.**SDG: **X4E0490**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
Seep-1	05/29/24	05/30/24	06/06/24	8	14	06/06/24	8	14	
Seep-2	05/29/24	05/30/24	06/06/24	8	14	06/06/24	8	14	
EMP-16	05/29/24	05/30/24	06/06/24	8	14	06/06/24	8	14	
EMP-17	05/29/24	05/30/24	06/06/24	8	14	06/06/24	8	14	
EMP-17A	05/29/24	05/30/24	06/06/24	8	14	06/06/24	8	14	
EMP-17B	05/29/24	05/30/24	06/06/24	8	14	06/06/24	8	14	
GV-02	05/29/24	05/30/24	06/06/24	8	14	06/06/24	8	14	
GV-06	05/29/24	05/30/24	06/06/24	8	14	06/06/24	8	14	



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Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0490**

Reported: 25-Jun-24 11:16

HOLDING TIME SUMMARY**SM 2320 B**Laboratory: **SVL Analytical, Inc.**SDG: **X4E0490**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
Seep-1	05/29/24	05/30/24	06/03/24	5	14	06/03/24	5	14	
Seep-2	05/29/24	05/30/24	06/03/24	5	14	06/03/24	5	14	
EMP-16	05/29/24	05/30/24	06/03/24	5	14	06/03/24	5	14	
EMP-17	05/29/24	05/30/24	06/03/24	5	14	06/03/24	5	14	
EMP-17A	05/29/24	05/30/24	06/03/24	5	14	06/03/24	5	14	
EMP-17B	05/29/24	05/30/24	06/03/24	5	14	06/03/24	5	14	
GV-02	05/29/24	05/30/24	06/03/24	5	14	06/03/24	5	14	
GV-06	05/29/24	05/30/24	06/03/24	5	14	06/03/24	5	14	

HOLDING TIME SUMMARY**SM 2540 C**Laboratory: **SVL Analytical, Inc.**SDG: **X4E0490**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
Seep-1		05/30/24		2	7		3.0		
Seep-2		05/30/24		2	7		3.0		
EMP-16		05/30/24		2	7		3.0		
EMP-17		05/30/24		2	7		3.0		
EMP-17A		05/30/24		2	7		3.0		
EMP-17B		05/30/24		2	7		3.0		
GV-02		05/30/24		2	7		3.0		
GV-06		05/30/24		2	7		3.0		



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Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0490**

Reported: 25-Jun-24 11:16

HOLDING TIME SUMMARY**SM 2540 D**Laboratory: **SVL Analytical, Inc.**SDG: **X4E0490**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
Seep-1		05/30/24		2	7		3.0		
Seep-2		05/30/24		2	7		3.0		
EMP-16		05/30/24		2	7		3.0		
EMP-17		05/30/24		2	7		3.0		
EMP-17A		05/30/24		2	7		3.0		
EMP-17B		05/30/24		2	7		3.0		
GV-02		05/30/24		2	7		3.0		
GV-06		05/30/24		2	7		3.0		

HOLDING TIME SUMMARY**SM 3500 Cr B**Laboratory: **SVL Analytical, Inc.**SDG: **X4E0490**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GV-02	05/29/24 15:30	05/30/24	06/10/24 12:58	11.9	1.0	06/10/24 17:55	12.1	1.0	*
GV-06	05/29/24 11:12	05/30/24	06/10/24 12:58	12.1	1.0	06/10/24 17:55	12.3	1.0	*

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0490**

Reported: 25-Jun-24 11:16

HOLDING TIME SUMMARY**SM 4500 H B**Laboratory: **SVL Analytical, Inc.**SDG: **X4E0490**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
Seep-1	05/29/24 14:35	05/30/24	06/03/24 08:08	4.8	0.0	06/03/24 16:32	5.1	0.0	H5
Seep-2	05/29/24 14:55	05/30/24	06/03/24 08:08	4.8	0.0	06/03/24 16:46	5.1	0.0	H5
EMP-16	05/29/24 14:05	05/30/24	06/03/24 08:08	4.8	0.0	06/03/24 16:51	5.2	0.0	H5
EMP-17	05/29/24 13:20	05/30/24	06/03/24 08:08	4.8	0.0	06/03/24 16:56	5.2	0.0	H5
EMP-17A	05/29/24 13:40	05/30/24	06/03/24 08:08	4.8	0.0	06/03/24 17:01	5.2	0.0	H5
EMP-17B	05/29/24 13:00	05/30/24	06/03/24 08:08	4.8	0.0	06/03/24 17:05	5.2	0.0	H5
GV-02	05/29/24 15:30	05/30/24	06/03/24 08:08	4.7	0.0	06/03/24 17:11	5.1	0.0	H5
GV-06	05/29/24 11:12	05/30/24	06/03/24 08:08	4.9	0.0	06/03/24 17:15	5.3	0.0	H5

HOLDING TIME SUMMARY**SM 4500 S D**Laboratory: **SVL Analytical, Inc.**SDG: **X4E0490**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GV-02	05/29/24	05/30/24	06/01/24	3	7	06/01/24	3	7	
GV-06	05/29/24	05/30/24	06/01/24	3	7	06/01/24	3	7	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4E0490**

Reported: 25-Jun-24 11:16

HOLDING TIME SUMMARY**SM 4500-O-G**Laboratory: **SVL Analytical, Inc.**SDG: **X4E0490**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GV-02	05/29/24 15:30	05/30/24	06/03/24 16:35	5.1	0.0	06/03/24 16:35	5.1	0.0	H3
GV-06	05/29/24 11:12	05/30/24	06/03/24 16:35	5.3	0.0	06/03/24 16:35	5.3	0.0	H3

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
E11	Sample exceeds method-specified limit for solids content.
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.
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.
Q20	Sample tested positive for oxidizers and was treated with sodium thiosulfate. Oxidizers are to be treated at collection before preservation.
Q24	COC was not relinquished by the client or an agent of the client.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
U	Less than 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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Kellogg, ID 83837-0929
(208) 784-1258
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Newmont - Cripple Creek & Victor	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4F0423
Victor, CO 80860	Reported: 10-Jul-24 13:34

Client Sample ID: **GV-06**

SVL Sample ID: **X4F0423-01 (Surface Water)**

Sampled: 24-Jun-24 08:07
Received: 25-Jun-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		X426107	MAC	07/08/24 13:10	U

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

EPA 200.7	Barium	0.119	mg/L	0.0020	0.0019		X426262	SJN	07/02/24 15:00	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X426262	SJN	07/02/24 15:00	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X426262	SJN	07/02/24 15:00	
EPA 200.7	Calcium	44.4	mg/L	0.100	0.069		X426262	SJN	07/02/24 15:00	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X426262	SJN	07/02/24 15:00	
EPA 200.7	Iron	3.07	mg/L	0.100	0.056		X426262	SJN	07/02/24 15:00	
EPA 200.7	Magnesium	10.9	mg/L	0.500	0.090		X426262	SJN	07/02/24 15:00	
EPA 200.7	Manganese	1.18	mg/L	0.0080	0.0034		X426262	SJN	07/02/24 15:00	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X426262	SJN	07/02/24 15:00	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X426262	SJN	07/02/24 15:00	
EPA 200.7	Phosphorus	0.114	mg/L	0.050	0.013		X426262	SJN	07/02/24 15:00	
EPA 200.7	Potassium	1.11	mg/L	0.50	0.18		X426262	SJN	07/02/24 15:00	
EPA 200.7	Sodium	11.4	mg/L	0.50	0.12		X426262	SJN	07/02/24 15:00	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X426262	SJN	07/02/24 15:00	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X426271	JRR	07/08/24 09:18	
EPA 200.8	Arsenic	0.00105	mg/L	0.00100	0.00021		X426271	JRR	07/08/24 09:18	
EPA 200.8	Cadmium	0.000144	mg/L	0.000100	0.000063		X426271	JRR	07/08/24 09:18	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X426271	JRR	07/08/24 09:18	
EPA 200.8	Copper	0.00061	mg/L	0.00040	0.00036		X428026	JRR	07/09/24 16:29	
EPA 200.8	Lead	0.00098	mg/L	0.00020	0.00014		X426271	JRR	07/08/24 09:18	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X426271	JRR	07/08/24 09:18	
SM 2340 B	Hardness (as CaC03)	150	mg/L	2.31	0.543		N/A		07/02/24 15:00	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X426164	NMS	06/26/24 16:39	
EPA 200.7	Barium	0.0795	mg/L	0.0020	0.0019		X426164	NMS	06/26/24 16:39	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X426164	NMS	06/26/24 16:39	
EPA 200.7	Calcium	42.7	mg/L	0.100	0.069		X426164	NMS	06/26/24 16:39	
EPA 200.7	Iron	0.391	mg/L	0.100	0.056		X426164	NMS	06/26/24 16:39	
EPA 200.7	Magnesium	10.4	mg/L	0.500	0.090		X426164	NMS	06/26/24 16:39	
EPA 200.7	Manganese	0.555	mg/L	0.0080	0.0034		X426164	NMS	06/26/24 16:39	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X426164	NMS	06/26/24 16:39	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X426164	NMS	06/26/24 16:39	
EPA 200.7	Potassium	1.07	mg/L	0.50	0.18		X426164	NMS	06/26/24 16:39	
EPA 200.7	Sodium	11.3	mg/L	0.50	0.12		X426164	NMS	06/26/24 16:39	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X426164	NMS	06/26/24 16:39	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X426139	SMU	07/09/24 07:50	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X426139	SMU	07/09/24 07:50	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X426139	SMU	07/09/24 07:50	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X426139	SMU	07/09/24 10:11	
EPA 200.8	Copper	0.00184	mg/L	0.00040	0.00036		X426139	SMU	07/09/24 10:11	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X426139	SMU	07/09/24 07:50	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X426139	SMU	07/09/24 07:50	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X426139	SMU	07/09/24 07:50	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X426139	SMU	07/09/24 07:50	
EPA 200.8	Uranium	0.00141	mg/L	0.000100	0.000052		X426139	SMU	07/09/24 07:50	



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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0423**

Reported: 10-Jul-24 13:34

Client Sample ID: **GV-06**SVL Sample ID: **X4F0423-01 (Surface Water)**

Sampled: 24-Jun-24 08:07

Received: 25-Jun-24

Sampled By: TR

Sample Report Page 2 of 2

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		X426110	MAC	07/08/24 15:24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X426215	DD	06/27/24 16:31	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		07/02/24 15:00	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X427001	DD	07/02/24 16:19	
EPA 350.1	Ammonia as N	0.031	mg/L	0.030	0.013		X426212	DD	06/28/24 13:48	
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X426209	DD	06/28/24 11:22	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X426132	DD	06/26/24 16:18	
SM 2310 B	Acidity to pH 8.3	-105	mg/L as CaCO3	10.0			X426220	MWD	07/01/24 08:51	
SM 2320 B	Total Alkalinity	99.8	mg/L as CaCO3	1.0			X426182	MWD	06/27/24 12:09	
SM 2320 B	Bicarbonate	99.8	mg/L as CaCO3	1.0			X426182	MWD	06/27/24 12:09	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X426182	MWD	06/27/24 12:09	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X426182	MWD	06/27/24 12:09	
SM 2540 C	Total Diss. Solids	233	mg/L	10			X426115	TJL	06/27/24 14:25	
SM 2540 D	Total Susp. Solids	23.0	mg/L	5.0			X426116	TJL	06/27/24 14:20	
SM 4500 H B	pH @17.7°C	7.6	pH Units				X426182	MWD	06/27/24 12:09	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X426105	MCM	06/25/24 18:29	
SM 4500-O-G	Dissolved Oxygen	6.6	mg/L	0.1			X426222	TJL	06/27/24 12:45	H3,H5

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X427012	MCM	07/01/24 15:45	M2

Filtered Classical Chemistry Parameters

Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		07/09/24 10:11	

Anions by Ion Chromatography

EPA 300.0	Chloride	5.50	mg/L	0.20	0.02		X426111	RS	06/25/24 14:13	
EPA 300.0	Fluoride	0.777	mg/L	0.100	0.017		X426111	RS	06/25/24 14:13	
EPA 300.0	Nitrate as N	0.098	mg/L	0.050	0.013		X426111	RS	06/25/24 14:13	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X426111	RS	06/25/24 14:13	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X426111	RS	06/25/24 14:13	
EPA 300.0	Sulfate as SO4	81.9	mg/L	3.00	1.80	10	X426111	RS	06/25/24 14:29	D2,M4

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.55 meq/L	Anion Sum: 3.90 meq/L	C/A Balance: -4.69 %	Calculated TDS: 215	TDS/cTDS: 1.09

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



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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0423**

Reported: 10-Jul-24 13:34

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	X426107	08-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	X426262	02-Jul-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X426262	02-Jul-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X426262	02-Jul-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X426262	02-Jul-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X426262	02-Jul-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X426262	02-Jul-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X426262	02-Jul-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X426262	02-Jul-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X426262	02-Jul-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X426262	02-Jul-24	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X426262	02-Jul-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X426262	02-Jul-24	
EPA 200.7	Sodium	mg/L	<0.12	0.12	0.50	X426262	02-Jul-24	U
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X426262	02-Jul-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X426271	08-Jul-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X426271	08-Jul-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X426271	08-Jul-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X426271	08-Jul-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X428026	09-Jul-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X426271	08-Jul-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X426271	08-Jul-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X426164	26-Jun-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X426164	26-Jun-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X426164	26-Jun-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X426164	26-Jun-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X426164	26-Jun-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X426164	26-Jun-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X426164	26-Jun-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X426164	26-Jun-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X426164	26-Jun-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X426164	26-Jun-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X426164	26-Jun-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X426164	26-Jun-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X426164	26-Jun-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X426164	26-Jun-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X426164	26-Jun-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X426164	26-Jun-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X426164	26-Jun-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X426164	26-Jun-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X426164	26-Jun-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X426164	26-Jun-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X426164	26-Jun-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X426139	09-Jul-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X426139	09-Jul-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X426139	09-Jul-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X426139	09-Jul-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X426139	09-Jul-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X426139	09-Jul-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X426139	09-Jul-24	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X426139	09-Jul-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X426139	09-Jul-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X426139	09-Jul-24	

SVL holds the following certifications:

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

Work order Report Page 8 of 16

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0423**

Reported: 10-Jul-24 13:34

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	X426110	08-Jul-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X426215	27-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X427001	02-Jul-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X426212	28-Jun-24	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X426209	28-Jun-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X426132	26-Jun-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X426220	01-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X426182	27-Jun-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X426182	27-Jun-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X426182	27-Jun-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X426182	27-Jun-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X426115	27-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X426116	27-Jun-24	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X426105	25-Jun-24	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X427012	01-Jul-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X426111	25-Jun-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X426111	25-Jun-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X426111	25-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X426111	25-Jun-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X426111	25-Jun-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X426111	25-Jun-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	0.00211	0.00200	106	85 - 115	X426107	08-Jul-24	

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

EPA 200.7	Barium	mg/L	0.965	1.00	96.5	85 - 115	X426262	02-Jul-24	
EPA 200.7	Beryllium	mg/L	1.04	1.00	104	85 - 115	X426262	02-Jul-24	
EPA 200.7	Boron	mg/L	0.996	1.00	99.6	85 - 115	X426262	02-Jul-24	
EPA 200.7	Calcium	mg/L	19.5	20.0	98	85 - 115	X426262	02-Jul-24	
EPA 200.7	Chromium	mg/L	0.995	1.00	99.5	85 - 115	X426262	02-Jul-24	
EPA 200.7	Iron	mg/L	9.87	10.0	98.7	85 - 115	X426262	02-Jul-24	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.3	85 - 115	X426262	02-Jul-24	
EPA 200.7	Manganese	mg/L	0.997	1.00	99.7	85 - 115	X426262	02-Jul-24	
EPA 200.7	Molybdenum	mg/L	0.999	1.00	99.9	85 - 115	X426262	02-Jul-24	
EPA 200.7	Nickel	mg/L	0.967	1.00	96.7	85 - 115	X426262	02-Jul-24	
EPA 200.7	Phosphorus	mg/L	1.01	1.00	101	85 - 115	X426262	02-Jul-24	
EPA 200.7	Potassium	mg/L	19.9	20.0	99.5	85 - 115	X426262	02-Jul-24	
EPA 200.7	Sodium	mg/L	18.5	19.0	97.5	85 - 115	X426262	02-Jul-24	
EPA 200.7	Zinc	mg/L	1.01	1.00	101	85 - 115	X426262	02-Jul-24	
EPA 200.8	Antimony	mg/L	0.0246	0.0250	98.4	85 - 115	X426271	08-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0247	0.0250	98.8	85 - 115	X426271	08-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0246	0.0250	98.5	85 - 115	X426271	08-Jul-24	
EPA 200.8	Chromium	mg/L	0.0252	0.0250	101	85 - 115	X426271	08-Jul-24	

SVL holds the following certifications:

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

Work order Report Page 9 of 16

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0423**

Reported: 10-Jul-24 13:34

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	0.0237	0.0250	94.8	85 - 115	X428026	09-Jul-24	
EPA 200.8	Lead	mg/L	0.0248	0.0250	99.1	85 - 115	X426271	08-Jul-24	
EPA 200.8	Selenium	mg/L	0.0248	0.0250	99.2	85 - 115	X426271	08-Jul-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.928	1.00	92.8	85 - 115	X426164	26-Jun-24	
EPA 200.7	Barium	mg/L	0.954	1.00	95.4	85 - 115	X426164	26-Jun-24	
EPA 200.7	Beryllium	mg/L	0.995	1.00	99.5	85 - 115	X426164	26-Jun-24	
EPA 200.7	Boron	mg/L	0.971	1.00	97.1	85 - 115	X426164	26-Jun-24	
EPA 200.7	Cadmium	mg/L	0.971	1.00	97.1	85 - 115	X426164	26-Jun-24	
EPA 200.7	Calcium	mg/L	19.1	20.0	95.5	85 - 115	X426164	26-Jun-24	
EPA 200.7	Chromium	mg/L	0.984	1.00	98.4	85 - 115	X426164	26-Jun-24	
EPA 200.7	Cobalt	mg/L	0.952	1.00	95.2	85 - 115	X426164	26-Jun-24	
EPA 200.7	Copper	mg/L	0.981	1.00	98.1	85 - 115	X426164	26-Jun-24	
EPA 200.7	Iron	mg/L	9.51	10.0	95.1	85 - 115	X426164	26-Jun-24	
EPA 200.7	Lead	mg/L	0.957	1.00	95.7	85 - 115	X426164	26-Jun-24	
EPA 200.7	Lithium	mg/L	0.945	1.00	94.5	85 - 115	X426164	26-Jun-24	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.7	85 - 115	X426164	26-Jun-24	
EPA 200.7	Manganese	mg/L	0.958	1.00	95.8	85 - 115	X426164	26-Jun-24	
EPA 200.7	Molybdenum	mg/L	0.994	1.00	99.4	85 - 115	X426164	26-Jun-24	
EPA 200.7	Nickel	mg/L	0.952	1.00	95.2	85 - 115	X426164	26-Jun-24	
EPA 200.7	Potassium	mg/L	19.3	20.0	96.3	85 - 115	X426164	26-Jun-24	
EPA 200.7	Silver	mg/L	0.0493	0.0500	98.6	85 - 115	X426164	26-Jun-24	
EPA 200.7	Sodium	mg/L	18.3	19.0	96.4	85 - 115	X426164	26-Jun-24	
EPA 200.7	Vanadium	mg/L	0.997	1.00	99.7	85 - 115	X426164	26-Jun-24	
EPA 200.7	Zinc	mg/L	0.975	1.00	97.5	85 - 115	X426164	26-Jun-24	
EPA 200.8	Antimony	mg/L	0.0237	0.0250	94.7	85 - 115	X426139	09-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0251	0.0250	100	85 - 115	X426139	09-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0244	0.0250	97.6	85 - 115	X426139	09-Jul-24	
EPA 200.8	Chromium	mg/L	0.0227	0.0250	90.8	85 - 115	X426139	09-Jul-24	
EPA 200.8	Copper	mg/L	0.0256	0.0250	102	85 - 115	X426139	09-Jul-24	
EPA 200.8	Lead	mg/L	0.0244	0.0250	97.4	85 - 115	X426139	09-Jul-24	
EPA 200.8	Selenium	mg/L	0.0246	0.0250	98.6	85 - 115	X426139	09-Jul-24	
EPA 200.8	Silver	mg/L	0.0251	0.0250	100	85 - 115	X426139	09-Jul-24	
EPA 200.8	Thallium	mg/L	0.0241	0.0250	96.4	85 - 115	X426139	09-Jul-24	
EPA 200.8	Uranium	mg/L	0.0238	0.0250	95.3	85 - 115	X426139	09-Jul-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00216	0.00200	108	85 - 115	X426110	08-Jul-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.104	0.100	104	90 - 110	X426215	27-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.0989	0.100	98.9	90 - 110	X427001	02-Jul-24	
EPA 350.1	Ammonia as N	mg/L	1.04	1.00	104	90 - 110	X426212	28-Jun-24	
EPA 351.2	TKN	mg/L	7.81	8.00	97.7	90 - 110	X426209	28-Jun-24	
OIA 1677	Cyanide (WAD)	mg/L	0.104	0.100	104	90 - 110	X426132	26-Jun-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	889	884	101	95.4 - 104	X426220	01-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.80	9.93	98.7	96.4 - 105	X426182	27-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	96.4 - 105	X426182	27-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	408	397	103	96.4 - 105	X426182	27-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X426116	27-Jun-24	
SM 4500 S D	Sulfide	mg/L	0.537	0.500	107	85 - 115	X426105	25-Jun-24	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	0.102	0.100	102	80 - 120	X427012	01-Jul-24	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0423**

Reported: 10-Jul-24 13:34

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	2.88	3.00	96.0	90 - 110	X426111	25-Jun-24	
EPA 300.0	Fluoride	mg/L	1.91	2.00	95.6	90 - 110	X426111	25-Jun-24	
EPA 300.0	Nitrate as N	mg/L	1.96	2.00	98.0	90 - 110	X426111	25-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.46	4.50	99.0	90 - 110	X426111	25-Jun-24	
EPA 300.0	Nitrite as N	mg/L	2.50	2.50	99.9	90 - 110	X426111	25-Jun-24	
EPA 300.0	Sulfate as SO4	mg/L	10.0	10.0	100	90 - 110	X426111	25-Jun-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	23500	23500	0.0	20	X426220 - X4F0415-01	01-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	27.5	26.9	2.2	20	X426182 - X4F0423-02	27-Jun-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	27.5	26.9	2.2	20	X426182 - X4F0423-02	27-Jun-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X426182 - X4F0423-02	27-Jun-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X426182 - X4F0423-02	27-Jun-24	
SM 2540 C	Total Diss. Solids	mg/L	299	300	0.3	10	X426115 - X4F0436-02	27-Jun-24	
SM 2540 C	Total Diss. Solids	mg/L	580	856	38.4	10	X426115 - X4F0415-05	27-Jun-24	R2B
SM 2540 D	Total Susp. Solids	mg/L	7.0	7.0	0.0	10	X426116 - X4F0436-02	27-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	87.0	94.0	7.7	10	X426116 - X4F0415-05	27-Jun-24	
SM 4500 H B	pH @17.0°C	pH Units	7.0	7.0	0.7	20	X426182 - X4F0423-02	27-Jun-24	
SM 4500-O-G	Dissolved Oxygen	mg/L	6.6	6.6	0.0	20	X426222 - X4F0423-01	27-Jun-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	0.00203	<0.000093	0.00200	102	70 - 130	X426107 - X4F0391-01	08-Jul-24	
EPA 245.1	Mercury	mg/L	0.00205	<0.000093	0.00200	102	70 - 130	X426107 - X4F0391-08	08-Jul-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	0.948	0.0264	1.00	92.1	70 - 130	X426262 - X4F0422-01	02-Jul-24	
EPA 200.7	Barium	mg/L	0.984	0.0126	1.00	97.2	70 - 130	X426262 - X4F0428-02	02-Jul-24	
EPA 200.7	Beryllium	mg/L	0.987	<0.00200	1.00	98.7	70 - 130	X426262 - X4F0422-01	02-Jul-24	
EPA 200.7	Beryllium	mg/L	1.04	<0.00200	1.00	104	70 - 130	X426262 - X4F0428-02	02-Jul-24	
EPA 200.7	Boron	mg/L	1.13	0.159	1.00	96.8	70 - 130	X426262 - X4F0422-01	02-Jul-24	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	103	70 - 130	X426262 - X4F0428-02	02-Jul-24	
EPA 200.7	Calcium	mg/L	43.3	22.6	20.0	104	70 - 130	X426262 - X4F0428-02	02-Jul-24	
EPA 200.7	Calcium	mg/L	534	474	20.0	0.30R>S	70 - 130	X426262 - X4F0422-01	02-Jul-24	D2,M4
EPA 200.7	Chromium	mg/L	0.931	<0.0060	1.00	93.1	70 - 130	X426262 - X4F0422-01	02-Jul-24	
EPA 200.7	Chromium	mg/L	1.01	<0.0060	1.00	101	70 - 130	X426262 - X4F0428-02	02-Jul-24	
EPA 200.7	Iron	mg/L	9.61	<0.100	10.0	96.1	70 - 130	X426262 - X4F0422-01	02-Jul-24	
EPA 200.7	Iron	mg/L	10.1	0.110	10.0	100	70 - 130	X426262 - X4F0428-02	02-Jul-24	
EPA 200.7	Magnesium	mg/L	187	181	20.0	0.30R>S	70 - 130	X426262 - X4F0422-01	02-Jul-24	M3
EPA 200.7	Magnesium	mg/L	26.9	6.40	20.0	102	70 - 130	X426262 - X4F0428-02	02-Jul-24	
EPA 200.7	Manganese	mg/L	1.05	0.105	1.00	94.1	70 - 130	X426262 - X4F0422-01	02-Jul-24	
EPA 200.7	Manganese	mg/L	0.994	<0.0080	1.00	99.4	70 - 130	X426262 - X4F0428-02	02-Jul-24	

SVL holds the following certifications:

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

Work order Report Page 11 of 16

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0423**

Reported: 10-Jul-24 13:34

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 (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.7	Molybdenum	mg/L	0.907	<0.0080	1.00	90.7	70 - 130	X426262 - X4F0422-01	02-Jul-24	
EPA 200.7	Molybdenum	mg/L	1.01	<0.0080	1.00	101	70 - 130	X426262 - X4F0428-02	02-Jul-24	
EPA 200.7	Nickel	mg/L	0.923	<0.0100	1.00	91.6	70 - 130	X426262 - X4F0422-01	02-Jul-24	
EPA 200.7	Nickel	mg/L	0.982	<0.0100	1.00	97.4	70 - 130	X426262 - X4F0428-02	02-Jul-24	
EPA 200.7	Phosphorus	mg/L	1.00	<0.050	1.00	100	70 - 130	X426262 - X4F0422-01	02-Jul-24	
EPA 200.7	Phosphorus	mg/L	1.12	0.108	1.00	101	70 - 130	X426262 - X4F0428-02	02-Jul-24	
EPA 200.7	Potassium	mg/L	59.5	39.3	20.0	101	70 - 130	X426262 - X4F0422-01	02-Jul-24	
EPA 200.7	Potassium	mg/L	22.3	1.75	20.0	103	70 - 130	X426262 - X4F0428-02	02-Jul-24	
EPA 200.7	Sodium	mg/L	125	109	19.0	83.8	70 - 130	X426262 - X4F0422-01	02-Jul-24	
EPA 200.7	Sodium	mg/L	28.5	9.74	19.0	98.6	70 - 130	X426262 - X4F0428-02	02-Jul-24	
EPA 200.7	Zinc	mg/L	4.91	4.23	1.00	0.30R>S	70 - 130	X426262 - X4F0422-01	02-Jul-24	M3
EPA 200.7	Zinc	mg/L	1.02	<0.0100	1.00	102	70 - 130	X426262 - X4F0428-02	02-Jul-24	
EPA 200.8	Antimony	mg/L	0.0244	<0.00100	0.0250	97.5	70 - 130	X426271 - X4F0458-01	08-Jul-24	
EPA 200.8	Antimony	mg/L	0.0309	0.00771	0.0250	92.6	70 - 130	X426271 - X4F0467-02	08-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0248	<0.00100	0.0250	96.6	70 - 130	X426271 - X4F0458-01	08-Jul-24	
EPA 200.8	Arsenic	mg/L	0.235	0.204	0.0250	121	70 - 130	X426271 - X4F0467-02	08-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0403	0.0162	0.0250	96.1	70 - 130	X426271 - X4F0458-01	08-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0246	<0.000100	0.0250	98.3	70 - 130	X426271 - X4F0467-02	08-Jul-24	
EPA 200.8	Chromium	mg/L	0.0239	<0.00100	0.0250	94.0	70 - 130	X426271 - X4F0458-01	08-Jul-24	
EPA 200.8	Chromium	mg/L	0.0287	0.00548	0.0250	92.8	70 - 130	X426271 - X4F0467-02	08-Jul-24	
EPA 200.8	Copper	mg/L	0.0246	<0.00040	0.0250	98.3	70 - 130	X428026 - X4F0422-02	09-Jul-24	
EPA 200.8	Lead	mg/L	0.166	0.138	0.0250	108	70 - 130	X426271 - X4F0458-01	08-Jul-24	
EPA 200.8	Lead	mg/L	0.0256	0.00152	0.0250	96.4	70 - 130	X426271 - X4F0467-02	08-Jul-24	
EPA 200.8	Selenium	mg/L	0.0240	0.00100	0.0250	91.8	70 - 130	X426271 - X4F0458-01	08-Jul-24	
EPA 200.8	Selenium	mg/L	0.0227	<0.00100	0.0250	89.5	70 - 130	X426271 - X4F0467-02	08-Jul-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.896	<0.080	1.00	89.6	70 - 130	X426164 - X4F0393-01	26-Jun-24	
EPA 200.7	Aluminum	mg/L	105	103	1.00	0.30R>S	70 - 130	X426164 - X4F0423-03	26-Jun-24	M3
EPA 200.7	Barium	mg/L	1.04	0.0934	1.00	94.5	70 - 130	X426164 - X4F0393-01	26-Jun-24	
EPA 200.7	Barium	mg/L	0.964	0.0213	1.00	94.2	70 - 130	X426164 - X4F0423-03	26-Jun-24	
EPA 200.7	Beryllium	mg/L	0.982	<0.00200	1.00	98.2	70 - 130	X426164 - X4F0393-01	26-Jun-24	
EPA 200.7	Beryllium	mg/L	1.00	0.0264	1.00	97.7	70 - 130	X426164 - X4F0423-03	26-Jun-24	
EPA 200.7	Boron	mg/L	1.09	0.121	1.00	96.6	70 - 130	X426164 - X4F0393-01	26-Jun-24	
EPA 200.7	Boron	mg/L	0.984	<0.0400	1.00	96.5	70 - 130	X426164 - X4F0423-03	26-Jun-24	
EPA 200.7	Cadmium	mg/L	0.942	<0.0020	1.00	94.2	70 - 130	X426164 - X4F0393-01	26-Jun-24	
EPA 200.7	Cadmium	mg/L	1.13	0.157	1.00	97.5	70 - 130	X426164 - X4F0423-03	26-Jun-24	
EPA 200.7	Calcium	mg/L	106	86.3	20.0	99.8	70 - 130	X426164 - X4F0393-01	26-Jun-24	
EPA 200.7	Calcium	mg/L	224	204	20.0	97.3	70 - 130	X426164 - X4F0423-03	26-Jun-24	
EPA 200.7	Chromium	mg/L	0.951	<0.0060	1.00	95.1	70 - 130	X426164 - X4F0393-01	26-Jun-24	
EPA 200.7	Chromium	mg/L	0.947	0.0086	1.00	93.8	70 - 130	X426164 - X4F0423-03	26-Jun-24	
EPA 200.7	Cobalt	mg/L	0.912	<0.0060	1.00	91.2	70 - 130	X426164 - X4F0393-01	26-Jun-24	
EPA 200.7	Cobalt	mg/L	1.88	0.916	1.00	96.2	70 - 130	X426164 - X4F0423-03	26-Jun-24	
EPA 200.7	Copper	mg/L	0.956	<0.0100	1.00	95.6	70 - 130	X426164 - X4F0393-01	26-Jun-24	
EPA 200.7	Copper	mg/L	1.27	0.241	1.00	103	70 - 130	X426164 - X4F0423-03	26-Jun-24	
EPA 200.7	Iron	mg/L	9.42	<0.100	10.0	94.2	70 - 130	X426164 - X4F0393-01	26-Jun-24	
EPA 200.7	Iron	mg/L	11.8	2.40	10.0	94.4	70 - 130	X426164 - X4F0423-03	26-Jun-24	
EPA 200.7	Lead	mg/L	0.935	<0.0075	1.00	93.5	70 - 130	X426164 - X4F0393-01	26-Jun-24	
EPA 200.7	Lead	mg/L	0.979	0.0346	1.00	94.5	70 - 130	X426164 - X4F0423-03	26-Jun-24	
EPA 200.7	Lithium	mg/L	0.931	<0.040	1.00	93.1	70 - 130	X426164 - X4F0393-01	26-Jun-24	

SVL holds the following certifications:

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

Work order Report Page 12 of 16



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0423**

Reported: 10-Jul-24 13:34

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	Lithium	mg/L	1.06	0.088	1.00	97.1	70 - 130	X426164 - X4F0423-03	26-Jun-24	
EPA 200.7	Magnesium	mg/L	45.7	26.2	20.0	97.4	70 - 130	X426164 - X4F0393-01	26-Jun-24	
EPA 200.7	Magnesium	mg/L	101	82.5	20.0	94.3	70 - 130	X426164 - X4F0423-03	26-Jun-24	
EPA 200.7	Manganese	mg/L	0.944	<0.0080	1.00	94.4	70 - 130	X426164 - X4F0393-01	26-Jun-24	
EPA 200.7	Manganese	mg/L	34.5	33.0	1.00	0.30R>S	70 - 130	X426164 - X4F0423-03	26-Jun-24	M3
EPA 200.7	Molybdenum	mg/L	0.975	<0.0080	1.00	97.5	70 - 130	X426164 - X4F0393-01	26-Jun-24	
EPA 200.7	Molybdenum	mg/L	0.962	<0.0080	1.00	96.2	70 - 130	X426164 - X4F0423-03	26-Jun-24	
EPA 200.7	Nickel	mg/L	0.929	0.0143	1.00	91.5	70 - 130	X426164 - X4F0393-01	26-Jun-24	
EPA 200.7	Nickel	mg/L	1.58	0.612	1.00	96.8	70 - 130	X426164 - X4F0423-03	26-Jun-24	
EPA 200.7	Potassium	mg/L	21.0	1.48	20.0	97.4	70 - 130	X426164 - X4F0393-01	26-Jun-24	
EPA 200.7	Potassium	mg/L	26.6	6.87	20.0	98.7	70 - 130	X426164 - X4F0423-03	26-Jun-24	
EPA 200.7	Silver	mg/L	0.0465	<0.0050	0.0500	93.1	70 - 130	X426164 - X4F0393-01	26-Jun-24	
EPA 200.7	Silver	mg/L	0.0440	<0.0050	0.0500	88.1	70 - 130	X426164 - X4F0423-03	26-Jun-24	
EPA 200.7	Sodium	mg/L	28.6	10.2	19.0	96.9	70 - 130	X426164 - X4F0393-01	26-Jun-24	
EPA 200.7	Sodium	mg/L	28.1	9.23	19.0	99.1	70 - 130	X426164 - X4F0423-03	26-Jun-24	
EPA 200.7	Vanadium	mg/L	0.972	<0.0050	1.00	97.2	70 - 130	X426164 - X4F0393-01	26-Jun-24	
EPA 200.7	Vanadium	mg/L	0.965	<0.0050	1.00	96.5	70 - 130	X426164 - X4F0423-03	26-Jun-24	
EPA 200.7	Zinc	mg/L	0.968	<0.0100	1.00	96.8	70 - 130	X426164 - X4F0393-01	26-Jun-24	
EPA 200.7	Zinc	mg/L	9.78	8.64	1.00	114	70 - 130	X426164 - X4F0423-03	26-Jun-24	
EPA 200.8	Antimony	mg/L	0.0238	<0.00100	0.0250	95.0	70 - 130	X426139 - X4F0382-01	09-Jul-24	
EPA 200.8	Antimony	mg/L	0.0245	<0.00100	0.0250	97.9	70 - 130	X426139 - X4F0382-04	09-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0274	0.00294	0.0250	97.9	70 - 130	X426139 - X4F0382-01	09-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0213	<0.00100	0.0250	81.5	70 - 130	X426139 - X4F0382-04	09-Jul-24	
EPA 200.8	Cadmium	mg/L	0.0239	<0.000100	0.0250	95.6	70 - 130	X426139 - X4F0382-01	09-Jul-24	
EPA 200.8	Cadmium	mg/L	0.117	0.0890	0.0250	112	70 - 130	X426139 - X4F0382-04	09-Jul-24	
EPA 200.8	Chromium	mg/L	0.0205	<0.00100	0.0250	82.2	70 - 130	X426139 - X4F0382-01	09-Jul-24	
EPA 200.8	Chromium	mg/L	0.0343	0.0147	0.0250	78.1	70 - 130	X426139 - X4F0382-04	09-Jul-24	
EPA 200.8	Copper	mg/L	0.0252	0.00064	0.0250	98.4	70 - 130	X426139 - X4F0382-01	09-Jul-24	
EPA 200.8	Copper	mg/L	0.818	0.797	0.0250	83.4	70 - 130	X426139 - X4F0382-04	09-Jul-24	
EPA 200.8	Lead	mg/L	0.0242	<0.00020	0.0250	96.9	70 - 130	X426139 - X4F0382-01	09-Jul-24	
EPA 200.8	Lead	mg/L	0.0245	<0.00020	0.0250	97.9	70 - 130	X426139 - X4F0382-04	09-Jul-24	
EPA 200.8	Selenium	mg/L	0.0248	<0.00100	0.0250	99.1	70 - 130	X426139 - X4F0382-01	09-Jul-24	
EPA 200.8	Selenium	mg/L	0.0491	0.0306	0.0250	73.9	70 - 130	X426139 - X4F0382-04	09-Jul-24	
EPA 200.8	Silver	mg/L	0.0240	<0.00008	0.0250	96.1	70 - 130	X426139 - X4F0382-01	09-Jul-24	
EPA 200.8	Silver	mg/L	0.0242	0.000091	0.0250	96.4	70 - 130	X426139 - X4F0382-04	09-Jul-24	
EPA 200.8	Thallium	mg/L	0.0241	<0.000200	0.0250	96.5	70 - 130	X426139 - X4F0382-01	09-Jul-24	
EPA 200.8	Thallium	mg/L	0.0255	0.00134	0.0250	96.6	70 - 130	X426139 - X4F0382-04	09-Jul-24	
EPA 200.8	Uranium	mg/L	0.0239	0.000116	0.0250	95.3	70 - 130	X426139 - X4F0382-01	09-Jul-24	
EPA 200.8	Uranium	mg/L	0.0462	0.0215	0.0250	98.7	70 - 130	X426139 - X4F0382-04	09-Jul-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00223	<0.000200	0.00200	111	70 - 130	X426110 - X4F0388-02	08-Jul-24	
EPA 245.1	Mercury	mg/L	0.00242	0.000288	0.00200	107	70 - 130	X426110 - X4F0389-01	08-Jul-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.101	<0.0050	0.100	101	79 - 121	X426215 - X4F0401-01	27-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X427001 - X4F0423-02	02-Jul-24	
EPA 335.4	Cyanide (total)	mg/L	0.0989	<0.0050	0.100	98.9	90 - 110	X427001 - X4F0423-03	02-Jul-24	
EPA 350.1	Ammonia as N	mg/L	1.09	<0.030	1.00	109	90 - 110	X426212 - X4F0419-01	28-Jun-24	
EPA 350.1	Ammonia as N	mg/L	1.76	0.662	1.00	110	90 - 110	X426212 - X4F0419-09	28-Jun-24	

SVL holds the following certifications:

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

Work order Report Page 13 of 16

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0423**

Reported: 10-Jul-24 13:34

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 (Continued)

EPA 351.2	TKN	mg/L	8.00	<0.50	8.00	100	90 - 110	X426209 - X4F0334-01	28-Jun-24	
EPA 351.2	TKN	mg/L	7.59	<0.50	8.00	94.8	90 - 110	X426209 - X4F0334-02	28-Jun-24	
OIA 1677	Cyanide (WAD)	mg/L	0.111	<0.0050	0.100	110	82 - 118	X426132 - X4F0423-01	26-Jun-24	
SM 4500 S D	Sulfide	mg/L	0.291	<0.050	0.200	146	75 - 125	X426105 - X4F0402-05	25-Jun-24	M1

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0138	<0.0050	0.0200	68.8	75 - 125	X427012 - X4F0423-01	01-Jul-24	M2

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	8.64	5.50	3.00	105	90 - 110	X426111 - X4F0423-01	25-Jun-24	
EPA 300.0	Fluoride	mg/L	2.72	0.777	2.00	97.1	90 - 110	X426111 - X4F0423-01	25-Jun-24	
EPA 300.0	Nitrate as N	mg/L	2.10	0.098	2.00	99.9	90 - 110	X426111 - X4F0423-01	25-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.18	<0.100	4.00	102	90 - 110	X426111 - X4F0423-01	25-Jun-24	
EPA 300.0	Nitrite as N	mg/L	2.09	<0.050	2.00	104	90 - 110	X426111 - X4F0423-01	25-Jun-24	
EPA 300.0	Sulfate as SO4	mg/L	90.6	81.9	10.0	0.30R>S	90 - 110	X426111 - X4F0423-01	25-Jun-24	M4

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes

Metals (Total)

EPA 245.1	Mercury	mg/L	0.00197	0.00203	0.00200	3.2	20	98.6	X426107 - X4F0391-01	

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

EPA 200.7	Barium	mg/L	0.962	0.948	1.00	1.5	20	93.6	X426262 - X4F0422-01	
EPA 200.7	Beryllium	mg/L	0.990	0.987	1.00	0.3	20	99.0	X426262 - X4F0422-01	
EPA 200.7	Boron	mg/L	1.14	1.13	1.00	1.3	20	98.3	X426262 - X4F0422-01	
EPA 200.7	Calcium	mg/L	492	534	20.0	8.0	20	91	X426262 - X4F0422-01	D2
EPA 200.7	Chromium	mg/L	0.939	0.931	1.00	0.9	20	93.9	X426262 - X4F0422-01	
EPA 200.7	Iron	mg/L	9.54	9.61	10.0	0.7	20	95.4	X426262 - X4F0422-01	
EPA 200.7	Magnesium	mg/L	189	187	20.0	1.2	20	0.30R>S	X426262 - X4F0422-01	M3
EPA 200.7	Manganese	mg/L	1.08	1.05	1.00	2.8	20	97.1	X426262 - X4F0422-01	
EPA 200.7	Molybdenum	mg/L	0.925	0.907	1.00	1.9	20	92.5	X426262 - X4F0422-01	
EPA 200.7	Nickel	mg/L	0.939	0.923	1.00	1.7	20	93.3	X426262 - X4F0422-01	
EPA 200.7	Phosphorus	mg/L	1.02	1.00	1.00	1.8	20	102	X426262 - X4F0422-01	
EPA 200.7	Potassium	mg/L	58.9	59.5	20.0	1.0	20	97.9	X426262 - X4F0422-01	
EPA 200.7	Sodium	mg/L	123	125	19.0	1.3	20	75.2	X426262 - X4F0422-01	
EPA 200.7	Zinc	mg/L	4.96	4.91	1.00	1.0	20	73.2	X426262 - X4F0422-01	
EPA 200.8	Antimony	mg/L	0.0248	0.0244	0.0250	1.7	20	99.2	X426271 - X4F0458-01	
EPA 200.8	Arsenic	mg/L	0.0254	0.0248	0.0250	2.4	20	99.0	X426271 - X4F0458-01	
EPA 200.8	Cadmium	mg/L	0.0410	0.0403	0.0250	1.8	20	99.1	X426271 - X4F0458-01	
EPA 200.8	Chromium	mg/L	0.0248	0.0239	0.0250	3.7	20	97.6	X426271 - X4F0458-01	
EPA 200.8	Copper	mg/L	0.0300	0.0246	0.0250	19.8	20	120	X428026 - X4F0422-02	
EPA 200.8	Lead	mg/L	0.165	0.166	0.0250	0.0	20	108	X426271 - X4F0458-01	
EPA 200.8	Selenium	mg/L	0.0231	0.0240	0.0250	3.7	20	88.3	X426271 - X4F0458-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.885	0.896	1.00	1.3	20	88.5	X426164 - X4F0393-01	
EPA 200.7	Barium	mg/L	1.01	1.04	1.00	2.4	20	92.0	X426164 - X4F0393-01	
EPA 200.7	Beryllium	mg/L	0.983	0.982	1.00	0.1	20	98.3	X426164 - X4F0393-01	
EPA 200.7	Boron	mg/L	1.07	1.09	1.00	1.1	20	95.4	X426164 - X4F0393-01	
EPA 200.7	Cadmium	mg/L	0.934	0.942	1.00	0.8	20	93.4	X426164 - X4F0393-01	
EPA 200.7	Calcium	mg/L	105	106	20.0	1.1	20	94.2	X426164 - X4F0393-01	
EPA 200.7	Chromium	mg/L	0.944	0.951	1.00	0.7	20	94.4	X426164 - X4F0393-01	

SVL holds the following certifications:

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

Work order Report Page 14 of 16

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0423**

Reported: 10-Jul-24 13:34

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	0.904	0.912	1.00	1.0	20	90.4	X426164 - X4F0393-01	
EPA 200.7	Copper	mg/L	0.941	0.956	1.00	1.6	20	94.1	X426164 - X4F0393-01	
EPA 200.7	Iron	mg/L	9.45	9.42	10.0	0.2	20	94.5	X426164 - X4F0393-01	
EPA 200.7	Lead	mg/L	0.925	0.935	1.00	1.2	20	92.5	X426164 - X4F0393-01	
EPA 200.7	Lithium	mg/L	0.919	0.931	1.00	1.3	20	91.9	X426164 - X4F0393-01	
EPA 200.7	Magnesium	mg/L	45.1	45.7	20.0	1.4	20	94.2	X426164 - X4F0393-01	
EPA 200.7	Manganese	mg/L	0.930	0.944	1.00	1.5	20	93.0	X426164 - X4F0393-01	
EPA 200.7	Molybdenum	mg/L	0.968	0.975	1.00	0.8	20	96.8	X426164 - X4F0393-01	
EPA 200.7	Nickel	mg/L	0.919	0.929	1.00	1.1	20	90.5	X426164 - X4F0393-01	
EPA 200.7	Potassium	mg/L	20.8	21.0	20.0	0.9	20	96.5	X426164 - X4F0393-01	
EPA 200.7	Silver	mg/L	0.0456	0.0465	0.0500	2.0	20	91.3	X426164 - X4F0393-01	
EPA 200.7	Sodium	mg/L	28.5	28.6	19.0	0.4	20	96.2	X426164 - X4F0393-01	
EPA 200.7	Vanadium	mg/L	0.965	0.972	1.00	0.8	20	96.5	X426164 - X4F0393-01	
EPA 200.7	Zinc	mg/L	0.956	0.968	1.00	1.3	20	95.6	X426164 - X4F0393-01	
EPA 200.8	Antimony	mg/L	0.0236	0.0238	0.0250	0.5	20	94.5	X426139 - X4F0382-01	
EPA 200.8	Arsenic	mg/L	0.0269	0.0274	0.0250	1.9	20	95.8	X426139 - X4F0382-01	
EPA 200.8	Cadmium	mg/L	0.0239	0.0239	0.0250	0.1	20	95.5	X426139 - X4F0382-01	
EPA 200.8	Chromium	mg/L	0.0199	0.0205	0.0250	3.2	20	79.6	X426139 - X4F0382-01	
EPA 200.8	Copper	mg/L	0.0251	0.0252	0.0250	0.5	20	97.9	X426139 - X4F0382-01	
EPA 200.8	Lead	mg/L	0.0244	0.0242	0.0250	0.6	20	97.5	X426139 - X4F0382-01	
EPA 200.8	Selenium	mg/L	0.0234	0.0248	0.0250	5.7	20	93.6	X426139 - X4F0382-01	
EPA 200.8	Silver	mg/L	0.0242	0.0240	0.0250	0.9	20	96.9	X426139 - X4F0382-01	
EPA 200.8	Thallium	mg/L	0.0244	0.0241	0.0250	1.1	20	97.6	X426139 - X4F0382-01	
EPA 200.8	Uranium	mg/L	0.0243	0.0239	0.0250	1.4	20	96.6	X426139 - X4F0382-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00217	0.00223	0.00200	2.7	20	108	X426110 - X4F0388-02	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.109	0.101	0.100	7.6	11	109	X426215 - X4F0401-01	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.103	0.100	0.8	20	104	X427001 - X4F0423-02	
EPA 350.1	Ammonia as N	mg/L	1.07	1.09	1.00	2.2	20	107	X426212 - X4F0419-01	
EPA 351.2	TKN	mg/L	7.74	8.00	8.00	3.3	20	96.7	X426209 - X4F0334-01	
OIA 1677	Cyanide (WAD)	mg/L	0.113	0.111	0.100	1.8	11	112	X426132 - X4F0423-01	
SM 4500 S D	Sulfide	mg/L	0.277	0.291	0.200	4.9	20	139	X426105 - X4F0402-05	M1
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0126	0.0138	0.0200	8.9	20	62.9	X427012 - X4F0423-01	M2
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	8.66	8.64	3.00	0.3	20	105	X426111 - X4F0423-01	
EPA 300.0	Fluoride	mg/L	2.74	2.72	2.00	0.7	20	98.1	X426111 - X4F0423-01	
EPA 300.0	Nitrate as N	mg/L	2.12	2.10	2.00	1.2	20	101	X426111 - X4F0423-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.24	4.18	4.00	1.4	20	104	X426111 - X4F0423-01	
EPA 300.0	Nitrite as N	mg/L	2.12	2.09	2.00	1.6	20	106	X426111 - X4F0423-01	
EPA 300.0	Sulfate as SO4	mg/L	90.8	90.6	10.0	0.2	20	0.30R>S	X426111 - X4F0423-01	M4



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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0423**

Reported: 10-Jul-24 13:34

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
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.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
U	Indicates the analyte was analyzed for but was not detected, result was less than the MDL.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0505**

Reported: 23-Jul-24 10:15

Client Sample ID: **WCMW-6**

Sampled: 27-Jun-24 10:47

Received: 28-Jun-24

Sampled By: TR

SVL Sample ID: **X4F0505-01 (Ground Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	41.8	mg/L	0.100	0.069		X427101	SJN	07/09/24 13:21	
EPA 200.7	Magnesium	10.4	mg/L	0.500	0.090		X427101	SJN	07/09/24 13:21	
EPA 200.7	Potassium	2.05	mg/L	0.50	0.18		X427101	SJN	07/09/24 13:21	
SM 2340 B	Hardness (as CaCO3)	147	mg/L	2.31	0.543		N/A		07/03/24 14:11	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X427086	NMS	07/03/24 14:11	
EPA 200.7	Barium	0.0386	mg/L	0.0020	0.0019		X427086	NMS	07/03/24 14:11	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X427086	NMS	07/03/24 14:11	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X427086	NMS	07/03/24 14:11	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X427086	NMS	07/03/24 14:11	
EPA 200.7	Calcium	40.2	mg/L	0.100	0.069		X427086	NMS	07/03/24 14:11	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X427086	NMS	07/03/24 14:11	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X427086	NMS	07/03/24 14:11	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X427086	NMS	07/03/24 14:11	
EPA 200.7	Iron	0.903	mg/L	0.100	0.056		X427086	NMS	07/03/24 14:11	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X427086	NMS	07/03/24 14:11	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X427086	SJN	07/03/24 15:50	
EPA 200.7	Magnesium	10.6	mg/L	0.500	0.090		X427086	NMS	07/03/24 14:11	
EPA 200.7	Manganese	0.165	mg/L	0.0080	0.0034		X427086	NMS	07/03/24 14:11	
EPA 200.7	Molybdenum	0.0091	mg/L	0.0080	0.0034		X427086	NMS	07/03/24 14:11	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X427086	NMS	07/03/24 14:11	
EPA 200.7	Potassium	2.22	mg/L	0.50	0.18		X427086	NMS	07/03/24 14:11	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X427086	NMS	07/03/24 14:11	
EPA 200.7	Sodium	15.6	mg/L	0.50	0.12		X427086	NMS	07/03/24 14:11	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X427086	NMS	07/03/24 14:11	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X427086	NMS	07/03/24 14:11	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X428047	SMU	07/10/24 07:19	
EPA 200.8	Arsenic	0.00473	mg/L	0.00100	0.00021		X428047	SMU	07/10/24 07:19	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X428047	SMU	07/10/24 07:19	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X428047	SMU	07/10/24 07:19	
EPA 200.8	Uranium	0.000786	mg/L	0.000100	0.000052		X428047	SMU	07/10/24 07:19	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X427021	MAC	07/08/24 13:29	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @24.0°C	< 0.0050	mg/L	0.0050	0.0048		X428139	DD	07/11/24 14:32	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X427001	DD	07/02/24 16:54	
EPA 350.1	Ammonia as N	0.049	mg/L	0.030	0.013		X428064	DD	07/12/24 13:47	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X428037	DD	07/09/24 11:52	
SM 2310 B	Acidity to pH 8.3	-133	mg/L as CaCO3	10.0			X428057	MWD	07/09/24 11:51	
SM 2320 B	Total Alkalinity	129	mg/L as CaCO3	1.0			X427049	MWD	07/02/24 11:01	
SM 2320 B	Bicarbonate	129	mg/L as CaCO3	1.0			X427049	MWD	07/02/24 11:01	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X427049	MWD	07/02/24 11:01	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X427049	MWD	07/02/24 11:01	
SM 2540 C	Total Diss. Solids	205	mg/L	10			X426253	TJL	07/01/24 13:25	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X426254	TJL	07/01/24 12:50	
SM 4500 H B	pH @19.2°C	7.5	pH Units				X427049	MWD	07/02/24 11:01	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 12



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

Newmont - Cripple Creek & Victor	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4F0505
Victor, CO 80860	Reported: 23-Jul-24 10:15

Client Sample ID: WCMW-6

SVL Sample ID: X4F0505-01 (Ground Water)

Sample Report Page 2 of 2

Sampled: 27-Jun-24 10:47
Received: 28-Jun-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	2.29	mg/L	0.20	0.02		X426251	RS	06/28/24 10:58	
EPA 300.0	Chloride	2.32	mg/L	0.20	0.02		X429051	KAG	07/15/24 14:31	N1
EPA 300.0	Chloride	2.31	mg/L	0.20	0.02		X429051	KAG	07/15/24 15:02	N1
EPA 300.0	Fluoride	2.10	mg/L	0.100	0.017		X426251	RS	06/28/24 10:58	
EPA 300.0	Fluoride	2.16	mg/L	0.100	0.017		X429051	KAG	07/15/24 14:31	N1
EPA 300.0	Fluoride	2.11	mg/L	0.100	0.017		X429051	KAG	07/15/24 15:02	N1
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X426251	RS	06/28/24 10:58	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X429051	KAG	07/15/24 14:31	H1,N1
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X429051	KAG	07/15/24 15:02	H1,N1
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X426251	RS	06/28/24 10:58	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X429051	KAG	07/15/24 14:31	H1,N1
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X429051	KAG	07/15/24 15:02	H1,N1
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X426251	RS	06/28/24 10:58	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X429051	KAG	07/15/24 14:31	H1,N1
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X429051	KAG	07/15/24 15:02	H1,N1
EPA 300.0	Sulfate as SO4	56.5	mg/L	3.00	1.80	10	X426251	RS	06/28/24 11:14	M4
EPA 300.0	Sulfate as SO4	56.3	mg/L	3.00	1.80	10	X429051	KAG	07/15/24 14:46	N1
EPA 300.0	Sulfate as SO4	56.9	mg/L	3.00	1.80	10	X429051	KAG	07/15/24 15:18	N1

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.65 meq/L

Anion Sum: 3.93 meq/L

C/A Balance: -3.73 %

Calculated TDS: 208

TDS/cTDS: 0.99

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

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order:

X4F0505

Reported:

23-Jul-24 10:15

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes

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

EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X427101	09-Jul-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X427101	09-Jul-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X427101	09-Jul-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X427086	03-Jul-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X427086	03-Jul-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X427086	03-Jul-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X427086	03-Jul-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X427086	03-Jul-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X427086	03-Jul-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X427086	03-Jul-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X427086	03-Jul-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X427086	03-Jul-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X427086	03-Jul-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X427086	03-Jul-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X427086	03-Jul-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X427086	03-Jul-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X427086	03-Jul-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X427086	03-Jul-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X427086	03-Jul-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X427086	03-Jul-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X427086	03-Jul-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X427086	03-Jul-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X427086	03-Jul-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X427086	03-Jul-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X428047	10-Jul-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X428047	10-Jul-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X428047	10-Jul-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X428047	10-Jul-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X428047	10-Jul-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X427021	08-Jul-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X428139	11-Jul-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X427001	02-Jul-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X428064	12-Jul-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X428037	09-Jul-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X428057	09-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X427049	02-Jul-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X427049	02-Jul-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X427049	02-Jul-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X427049	02-Jul-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X426253	01-Jul-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X426254	01-Jul-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X426251	28-Jun-24	
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X429051	15-Jul-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X426251	28-Jun-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X429051	15-Jul-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X426251	28-Jun-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X429051	15-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X426251	28-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X429051	15-Jul-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X426251	28-Jun-24	

SVL holds the following certifications:

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

Work order Report Page 6 of 12



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0505**

Reported: 23-Jul-24 10:15

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	X429051	15-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X426251	28-Jun-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X429051	15-Jul-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	19.4	20.0	97	85 - 115	X427101	09-Jul-24	
EPA 200.7	Magnesium	mg/L	18.8	20.0	93.9	85 - 115	X427101	09-Jul-24	
EPA 200.7	Potassium	mg/L	19.6	20.0	97.8	85 - 115	X427101	09-Jul-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.923	1.00	92.3	85 - 115	X427086	03-Jul-24	
EPA 200.7	Barium	mg/L	0.927	1.00	92.7	85 - 115	X427086	03-Jul-24	
EPA 200.7	Beryllium	mg/L	0.957	1.00	95.7	85 - 115	X427086	03-Jul-24	
EPA 200.7	Boron	mg/L	0.937	1.00	93.7	85 - 115	X427086	03-Jul-24	
EPA 200.7	Cadmium	mg/L	0.938	1.00	93.8	85 - 115	X427086	03-Jul-24	
EPA 200.7	Calcium	mg/L	19.3	20.0	96.3	85 - 115	X427086	03-Jul-24	
EPA 200.7	Chromium	mg/L	0.940	1.00	94.0	85 - 115	X427086	03-Jul-24	
EPA 200.7	Cobalt	mg/L	0.921	1.00	92.1	85 - 115	X427086	03-Jul-24	
EPA 200.7	Copper	mg/L	0.930	1.00	93.0	85 - 115	X427086	03-Jul-24	
EPA 200.7	Iron	mg/L	9.72	10.0	97.2	85 - 115	X427086	03-Jul-24	
EPA 200.7	Lead	mg/L	0.922	1.00	92.2	85 - 115	X427086	03-Jul-24	
EPA 200.7	Lithium	mg/L	0.946	1.00	94.6	85 - 115	X427086	03-Jul-24	
EPA 200.7	Magnesium	mg/L	19.3	20.0	96.5	85 - 115	X427086	03-Jul-24	
EPA 200.7	Manganese	mg/L	0.917	1.00	91.7	85 - 115	X427086	03-Jul-24	
EPA 200.7	Molybdenum	mg/L	0.947	1.00	94.7	85 - 115	X427086	03-Jul-24	
EPA 200.7	Nickel	mg/L	0.929	1.00	92.9	85 - 115	X427086	03-Jul-24	
EPA 200.7	Potassium	mg/L	19.2	20.0	96.2	85 - 115	X427086	03-Jul-24	
EPA 200.7	Silver	mg/L	0.0462	0.0500	92.4	85 - 115	X427086	03-Jul-24	
EPA 200.7	Sodium	mg/L	18.5	19.0	97.2	85 - 115	X427086	03-Jul-24	
EPA 200.7	Vanadium	mg/L	0.942	1.00	94.2	85 - 115	X427086	03-Jul-24	
EPA 200.7	Zinc	mg/L	0.953	1.00	95.3	85 - 115	X427086	03-Jul-24	
EPA 200.8	Antimony	mg/L	0.0241	0.0250	96.2	85 - 115	X428047	10-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0238	0.0250	95.3	85 - 115	X428047	10-Jul-24	
EPA 200.8	Selenium	mg/L	0.0232	0.0250	92.9	85 - 115	X428047	10-Jul-24	
EPA 200.8	Thallium	mg/L	0.0241	0.0250	96.3	85 - 115	X428047	10-Jul-24	
EPA 200.8	Uranium	mg/L	0.0238	0.0250	95.1	85 - 115	X428047	10-Jul-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00210	0.00200	105	85 - 115	X427021	08-Jul-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.103	0.100	103	90 - 110	X428139	11-Jul-24	
EPA 335.4	Cyanide (total)	mg/L	0.0989	0.100	98.9	90 - 110	X427001	02-Jul-24	
EPA 350.1	Ammonia as N	mg/L	0.994	1.00	99.4	90 - 110	X428064	12-Jul-24	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	101	90 - 110	X428037	09-Jul-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	889	884	101	95.4 - 104	X428057	09-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	96.4 - 105	X427049	02-Jul-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X426254	01-Jul-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.16	3.00	105	90 - 110	X429051	15-Jul-24	

SVL holds the following certifications:

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

Work order Report Page 7 of 12

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0505**

Reported: 23-Jul-24 10:15

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	Chloride	mg/L	3.06	3.00	102	90 - 110	X426251	28-Jun-24	
EPA 300.0	Fluoride	mg/L	2.09	2.00	105	90 - 110	X429051	15-Jul-24	
EPA 300.0	Fluoride	mg/L	2.03	2.00	101	90 - 110	X426251	28-Jun-24	
EPA 300.0	Nitrate as N	mg/L	2.14	2.00	107	90 - 110	X429051	15-Jul-24	
EPA 300.0	Nitrate as N	mg/L	2.09	2.00	104	90 - 110	X426251	28-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.86	4.50	108	90 - 110	X429051	15-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.72	4.50	105	90 - 110	X426251	28-Jun-24	
EPA 300.0	Nitrite as N	mg/L	2.72	2.50	109	90 - 110	X429051	15-Jul-24	
EPA 300.0	Nitrite as N	mg/L	2.64	2.50	106	90 - 110	X426251	28-Jun-24	
EPA 300.0	Sulfate as SO4	mg/L	10.9	10.0	109	90 - 110	X429051	15-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	10.7	10.0	107	90 - 110	X426251	28-Jun-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	X428057 - X4F0505-02	09-Jul-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	161	161	0.1	20	X427049 - X4F0505-02	02-Jul-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	161	161	0.1	20	X427049 - X4F0505-02	02-Jul-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X427049 - X4F0505-02	02-Jul-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X427049 - X4F0505-02	02-Jul-24	
SM 2540 C	Total Diss. Solids	mg/L	213	205	3.8	10	X426253 - X4F0505-01	01-Jul-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X426254 - X4F0505-01	01-Jul-24	
SM 4500 H B	pH @19.2°C	pH Units	7.8	7.8	0.5	20	X427049 - X4F0505-02	02-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	63.3	41.8	20.0	107	70 - 130	X427101 - X4F0505-01	09-Jul-24	
EPA 200.7	Calcium	mg/L	33.4	12.8	20.0	103	70 - 130	X427101 - X4F0521-10	09-Jul-24	
EPA 200.7	Magnesium	mg/L	30.8	10.4	20.0	102	70 - 130	X427101 - X4F0505-01	09-Jul-24	
EPA 200.7	Magnesium	mg/L	24.6	4.46	20.0	100	70 - 130	X427101 - X4F0521-10	09-Jul-24	
EPA 200.7	Potassium	mg/L	22.6	2.05	20.0	103	70 - 130	X427101 - X4F0505-01	09-Jul-24	
EPA 200.7	Potassium	mg/L	20.9	0.58	20.0	102	70 - 130	X427101 - X4F0521-10	09-Jul-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.895	<0.080	1.00	89.5	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Aluminum	mg/L	0.893	<0.080	1.00	89.3	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Barium	mg/L	0.964	0.0547	1.00	90.9	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Barium	mg/L	0.984	0.0537	1.00	93.1	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Beryllium	mg/L	0.966	<0.00200	1.00	96.6	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Beryllium	mg/L	0.980	<0.00200	1.00	98.0	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Boron	mg/L	1.06	0.0947	1.00	96.4	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Boron	mg/L	1.00	<0.0400	1.00	97.3	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Cadmium	mg/L	0.918	<0.0020	1.00	91.8	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Cadmium	mg/L	0.929	<0.0020	1.00	92.9	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Calcium	mg/L	207	186	20.0	108	70 - 130	X427086 - X4F0406-01	03-Jul-24	

SVL holds the following certifications:

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

Work order Report Page 8 of 12

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0505**

Reported: 23-Jul-24 10:15

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Calcium	mg/L	122	104	20.0	89.6	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Chromium	mg/L	0.938	<0.0060	1.00	93.8	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Chromium	mg/L	0.948	<0.0060	1.00	94.8	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Cobalt	mg/L	0.928	<0.0060	1.00	92.8	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Cobalt	mg/L	0.942	0.0122	1.00	93.0	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Copper	mg/L	0.971	<0.0100	1.00	96.8	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Copper	mg/L	0.987	<0.0100	1.00	97.9	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Iron	mg/L	10.1	0.329	10.0	97.6	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Iron	mg/L	10.4	0.726	10.0	97.0	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Lead	mg/L	0.908	<0.0075	1.00	90.8	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Lead	mg/L	0.928	0.0120	1.00	91.6	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Lithium	mg/L	0.987	<0.040	1.00	95.4	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Lithium	mg/L	1.04	0.072	1.00	97.0	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Magnesium	mg/L	44.3	24.4	20.0	99.3	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Magnesium	mg/L	56.6	38.4	20.0	90.7	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Manganese	mg/L	1.14	0.229	1.00	91.2	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Manganese	mg/L	1.50	0.578	1.00	91.9	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Molybdenum	mg/L	0.973	0.0107	1.00	96.2	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Molybdenum	mg/L	1.02	0.0555	1.00	96.9	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Nickel	mg/L	0.927	<0.0100	1.00	92.7	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Nickel	mg/L	0.939	<0.0100	1.00	93.9	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Potassium	mg/L	22.7	3.64	20.0	95.5	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Potassium	mg/L	20.1	1.32	20.0	94.1	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Silver	mg/L	0.0453	<0.0050	0.0500	90.6	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Silver	mg/L	0.0453	<0.0050	0.0500	90.6	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Sodium	mg/L	152	133	19.0	98.0	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Sodium	mg/L	139	123	19.0	84.7	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Vanadium	mg/L	0.960	<0.0050	1.00	96.0	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Vanadium	mg/L	0.968	<0.0050	1.00	96.8	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.7	Zinc	mg/L	0.961	<0.0100	1.00	96.1	70 - 130	X427086 - X4F0406-01	03-Jul-24	
EPA 200.7	Zinc	mg/L	0.965	<0.0100	1.00	96.5	70 - 130	X427086 - X4F0505-02	03-Jul-24	
EPA 200.8	Antimony	mg/L	0.0257	<0.00100	0.0250	103	70 - 130	X428047 - X4F0468-10	10-Jul-24	
EPA 200.8	Antimony	mg/L	0.0271	<0.00100	0.0250	108	70 - 130	X428047 - X4F0505-01	10-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0257	<0.00100	0.0250	101	70 - 130	X428047 - X4F0468-10	10-Jul-24	
EPA 200.8	Arsenic	mg/L	0.0308	0.00473	0.0250	104	70 - 130	X428047 - X4F0505-01	10-Jul-24	
EPA 200.8	Selenium	mg/L	0.0262	0.00152	0.0250	98.7	70 - 130	X428047 - X4F0468-10	10-Jul-24	
EPA 200.8	Selenium	mg/L	0.0239	<0.00100	0.0250	95.7	70 - 130	X428047 - X4F0505-01	10-Jul-24	
EPA 200.8	Thallium	mg/L	0.0243	<0.000200	0.0250	97.2	70 - 130	X428047 - X4F0468-10	10-Jul-24	
EPA 200.8	Thallium	mg/L	0.0260	<0.000200	0.0250	104	70 - 130	X428047 - X4F0505-01	10-Jul-24	
EPA 200.8	Uranium	mg/L	0.0285	0.00413	0.0250	97.5	70 - 130	X428047 - X4F0468-10	10-Jul-24	
EPA 200.8	Uranium	mg/L	0.0270	0.000786	0.0250	105	70 - 130	X428047 - X4F0505-01	10-Jul-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00251	0.000391	0.00200	106	70 - 130	X427021 - X4G0040-01	08-Jul-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.100	<0.0050	0.100	100	79 - 121	X428139 - X4F0505-01	11-Jul-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X427001 - X4F0423-02	02-Jul-24	
EPA 335.4	Cyanide (total)	mg/L	0.0989	<0.0050	0.100	98.9	90 - 110	X427001 - X4F0423-03	02-Jul-24	
EPA 350.1	Ammonia as N	mg/L	0.981	0.049	1.00	93.2	90 - 110	X428064 - X4F0505-01	12-Jul-24	



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Kellogg, ID 83837-0929

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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4F0505**

Reported: 23-Jul-24 10:15

Quality Control - MATRIX SPIKE Data (Continued)

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

Classical Chemistry Parameters (Continued)

EPA 350.1	Ammonia as N	mg/L	0.978	<0.030	1.00	97.8	90 - 110	X428064 - X4F0505-02	12-Jul-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0970	<0.0050	0.100	96.0	82 - 118	X428037 - X4F0453-01	09-Jul-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	7.44	4.11	3.00	111	90 - 110	X429051 - X4G0215-06	16-Jul-24	M1
EPA 300.0	Chloride	mg/L	19.0	16.1	3.00	94.8	90 - 110	X429051 - X4G0214-02	19-Jul-24	
EPA 300.0	Chloride	mg/L	5.49	2.29	3.00	107	90 - 110	X426251 - X4F0505-01	28-Jun-24	
EPA 300.0	Fluoride	mg/L	2.26	0.184	2.00	104	90 - 110	X429051 - X4G0215-06	16-Jul-24	
EPA 300.0	Fluoride	mg/L	4.70	2.73	2.00	98.8	90 - 110	X429051 - X4G0214-02	19-Jul-24	
EPA 300.0	Fluoride	mg/L	4.19	2.10	2.00	104	90 - 110	X426251 - X4F0505-01	28-Jun-24	
EPA 300.0	Nitrate as N	mg/L	3.47	1.31	2.00	108	90 - 110	X429051 - X4G0215-06	16-Jul-24	
EPA 300.0	Nitrate as N	mg/L	0.097	<0.050	2.00	3.38	90 - 110	X429051 - X4G0214-02	19-Jul-24	M2
EPA 300.0	Nitrate as N	mg/L	2.10	<0.050	2.00	105	90 - 110	X426251 - X4F0505-01	28-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.71	1.34	4.00	109	90 - 110	X429051 - X4G0215-06	16-Jul-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	2.19	<0.100	4.00	54.8	90 - 110	X429051 - X4G0214-02	19-Jul-24	M2
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.29	<0.100	4.00	107	90 - 110	X426251 - X4F0505-01	28-Jun-24	
EPA 300.0	Nitrite as N	mg/L	2.24	<0.050	2.00	110	90 - 110	X429051 - X4G0215-06	16-Jul-24	
EPA 300.0	Nitrite as N	mg/L	2.09	<0.050	2.00	105	90 - 110	X429051 - X4G0214-02	19-Jul-24	
EPA 300.0	Nitrite as N	mg/L	2.19	<0.050	2.00	109	90 - 110	X426251 - X4F0505-01	28-Jun-24	
EPA 300.0	Sulfate as SO4	mg/L	44.4	34.0	10.0	104	90 - 110	X429051 - X4G0215-06	16-Jul-24	
EPA 300.0	Sulfate as SO4	mg/L	1290	1260	10.0	0.30R>S	90 - 110	X429051 - X4G0214-02	19-Jul-24	M4
EPA 300.0	Sulfate as SO4	mg/L	65.4	56.5	10.0	0.30R>S	90 - 110	X426251 - X4F0505-01	28-Jun-24	M4

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes

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

EPA 200.7	Calcium	mg/L	63.8	63.3	20.0	0.7	20	110	X427101 - X4F0505-01	
EPA 200.7	Magnesium	mg/L	31.3	30.8	20.0	1.5	20	105	X427101 - X4F0505-01	
EPA 200.7	Potassium	mg/L	22.8	22.6	20.0	0.8	20	104	X427101 - X4F0505-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.915	0.895	1.00	2.2	20	91.5	X427086 - X4F0406-01	
EPA 200.7	Barium	mg/L	0.988	0.964	1.00	2.4	20	93.3	X427086 - X4F0406-01	
EPA 200.7	Beryllium	mg/L	0.985	0.966	1.00	2.0	20	98.5	X427086 - X4F0406-01	
EPA 200.7	Boron	mg/L	1.08	1.06	1.00	1.8	20	98.2	X427086 - X4F0406-01	
EPA 200.7	Cadmium	mg/L	0.929	0.918	1.00	1.2	20	92.9	X427086 - X4F0406-01	
EPA 200.7	Calcium	mg/L	206	207	20.0	0.4	20	104	X427086 - X4F0406-01	
EPA 200.7	Chromium	mg/L	0.948	0.938	1.00	1.1	20	94.8	X427086 - X4F0406-01	
EPA 200.7	Cobalt	mg/L	0.937	0.928	1.00	0.9	20	93.7	X427086 - X4F0406-01	
EPA 200.7	Copper	mg/L	0.981	0.971	1.00	1.0	20	97.8	X427086 - X4F0406-01	
EPA 200.7	Iron	mg/L	10.3	10.1	10.0	1.9	20	99.5	X427086 - X4F0406-01	
EPA 200.7	Lead	mg/L	0.917	0.908	1.00	1.0	20	91.7	X427086 - X4F0406-01	
EPA 200.7	Lithium	mg/L	0.983	0.987	1.00	0.4	20	95.0	X427086 - X4F0406-01	
EPA 200.7	Magnesium	mg/L	44.2	44.3	20.0	0.3	20	98.7	X427086 - X4F0406-01	
EPA 200.7	Manganese	mg/L	1.15	1.14	1.00	0.6	20	91.9	X427086 - X4F0406-01	
EPA 200.7	Molybdenum	mg/L	0.985	0.973	1.00	1.3	20	97.5	X427086 - X4F0406-01	
EPA 200.7	Nickel	mg/L	0.938	0.927	1.00	1.1	20	93.8	X427086 - X4F0406-01	
EPA 200.7	Potassium	mg/L	23.1	22.7	20.0	1.6	20	97.4	X427086 - X4F0406-01	
EPA 200.7	Silver	mg/L	0.0456	0.0453	0.0500	0.8	20	91.3	X427086 - X4F0406-01	
EPA 200.7	Sodium	mg/L	152	152	19.0	0.0	20	97.7	X427086 - X4F0406-01	

SVL holds the following certifications:

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

Work order Report Page 10 of 12



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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0505**

Reported: 23-Jul-24 10:15

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Vanadium	mg/L	0.974	0.960	1.00	1.5	20	97.4	X427086 - X4F0406-01	
EPA 200.7	Zinc	mg/L	0.970	0.961	1.00	0.9	20	97.0	X427086 - X4F0406-01	
EPA 200.8	Antimony	mg/L	0.0253	0.0257	0.0250	1.5	20	101	X428047 - X4F0468-10	
EPA 200.8	Arsenic	mg/L	0.0251	0.0257	0.0250	2.5	20	98.8	X428047 - X4F0468-10	
EPA 200.8	Selenium	mg/L	0.0248	0.0262	0.0250	5.7	20	92.9	X428047 - X4F0468-10	
EPA 200.8	Thallium	mg/L	0.0243	0.0243	0.0250	0.1	20	97.3	X428047 - X4F0468-10	
EPA 200.8	Uranium	mg/L	0.0288	0.0285	0.0250	0.9	20	98.5	X428047 - X4F0468-10	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00256	0.00251	0.00200	2.0	20	108	X427021 - X4G0040-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0950	0.100	0.100	5.1	11	95.0	X428139 - X4F0505-01	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.103	0.100	0.8	20	104	X427001 - X4F0423-02	
EPA 350.1	Ammonia as N	mg/L	1.07	0.981	1.00	8.3	20	102	X428064 - X4F0505-01	
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.0970	0.100	6.0	11	102	X428037 - X4F0453-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	5.46	5.49	3.00	0.5	20	106	X426251 - X4F0505-01	
EPA 300.0	Chloride	mg/L	18.5	19.0	3.00	2.7	20	0.30R>S	X429051 - X4G0214-02	M4
EPA 300.0	Fluoride	mg/L	4.25	4.19	2.00	1.4	20	107	X426251 - X4F0505-01	
EPA 300.0	Fluoride	mg/L	4.74	4.70	2.00	0.7	20	100	X429051 - X4G0214-02	
EPA 300.0	Nitrate as N	mg/L	2.09	2.10	2.00	0.6	20	104	X426251 - X4F0505-01	
EPA 300.0	Nitrate as N	mg/L	0.087	0.097	2.00	11.4	20	2.85	X429051 - X4G0214-02	M2
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.27	4.29	4.00	0.5	20	107	X426251 - X4F0505-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	2.24	2.19	4.00	2.1	20	55.9	X429051 - X4G0214-02	M2
EPA 300.0	Nitrite as N	mg/L	2.18	2.19	2.00	0.4	20	109	X426251 - X4F0505-01	
EPA 300.0	Nitrite as N	mg/L	2.15	2.09	2.00	2.6	20	107	X429051 - X4G0214-02	
EPA 300.0	Sulfate as SO4	mg/L	66.7	65.4	10.0	2.0	20	102	X426251 - X4F0505-01	
EPA 300.0	Sulfate as SO4	mg/L	1250	1290	10.0	2.5	20	0.30R>S	X429051 - X4G0214-02	M4



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Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0505**

Reported: 23-Jul-24 10:15

Notes and Definitions

D1	Sample required dilution due to matrix.
H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
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.
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



Cripple Creek & Victor
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QA/QC

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0086**

Reported: 02-May-24 15:02

Client Sample ID: **RB-0403**

Sampled: 03-Apr-24 09:20

Received: 04-Apr-24

Sampled By: PB

SVL Sample ID: **X4D0086-01 (Ground Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	0.250	mg/L	0.100	0.069		X416077	NMS	04/19/24 11:20	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X416077	NMS	04/19/24 11:20	
EPA 200.7	Potassium	88.3	mg/L	0.50	0.18		X416077	NMS	04/19/24 11:20	
SM 2340 B	Hardness (as CaCO ₃)	< 2.31	mg/L	2.31	0.543		N/A		04/19/24 11:20	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X415016	NMS	04/09/24 11:52	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X415016	NMS	04/09/24 11:52	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X415016	NMS	04/09/24 11:52	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X415016	NMS	04/09/24 11:52	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X415016	NMS	04/09/24 11:52	
EPA 200.7	Calcium	0.155	mg/L	0.100	0.069		X415016	NMS	04/09/24 11:52	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X415016	NMS	04/09/24 11:52	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X415016	NMS	04/09/24 11:52	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X415016	NMS	04/09/24 11:52	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X415016	NMS	04/09/24 11:52	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X415016	NMS	04/09/24 11:52	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X415016	NMS	04/09/24 11:52	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X415016	NMS	04/09/24 11:52	
EPA 200.7	Manganese	0.0115	mg/L	0.0080	0.0034		X415016	NMS	04/09/24 11:52	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X415016	NMS	04/09/24 11:52	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X415016	NMS	04/09/24 11:52	
EPA 200.7	Potassium	16.9	mg/L	0.50	0.18		X415016	NMS	04/09/24 11:52	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X415016	NMS	04/09/24 11:52	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X415016	NMS	04/09/24 11:52	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X415016	NMS	04/09/24 11:52	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X415016	NMS	04/09/24 11:52	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X415044	SMU	04/13/24 15:08	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X415044	SMU	04/13/24 15:08	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X415044	SMU	04/13/24 15:08	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X415044	SMU	04/13/24 15:08	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X415044	SMU	04/13/24 15:08	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X415207	MAC	04/15/24 16:20	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X415113	DD	04/10/24 13:00	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X415003	DD	04/08/24 14:21	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X415055	DD	04/10/24 09:33	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X416129	DD	04/26/24 13:23	H1
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO ₃	10.0			X415194	MWD	04/12/24 09:40	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO ₃	1.0			X414208	MWD	04/08/24 16:39	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO ₃	1.0			X414208	MWD	04/08/24 16:39	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X414208	MWD	04/08/24 16:39	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO ₃	1.0			X414208	MWD	04/08/24 16:39	
SM 2540 C	Total Diss. Solids	47	mg/L	10			X414198	TJL	04/08/24 14:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X414200	TJL	04/08/24 15:55	
SM 4500 H B	pH @17.8°C	5.9	pH Units				X414208	MWD	04/08/24 16:39	H5

SVL holds the following certifications:

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

Work



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(208) 784-1258
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Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4D0086 Reported: 02-May-24 15:02

Client Sample ID: **RB-0403**
SVL Sample ID: **X4D0086-01 (Ground Water)**

Sampled: 03-Apr-24 09:20
Received: 04-Apr-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	14.3	mg/L	2.00	0.22	10	X414183	KAG	04/05/24 12:46	D2
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X414183	KAG	04/04/24 23:12	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X414183	KAG	04/04/24 23:12	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X414183	KAG	04/04/24 23:12	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X414183	KAG	04/04/24 23:12	
EPA 300.0	Sulfate as SO4	0.58	mg/L	0.30	0.18		X414183	KAG	04/04/24 23:12	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.47 meq/L	Anion Sum: 0.44 meq/L	C/A Balance: 2.90 %	Calculated TDS: 68	TDS/cTDS: 0.69

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



Kathryn Salter
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0086**

Reported: 02-May-24 15:02

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

Sampled: 03-Apr-24 10:59

SVL Sample ID: **X4D0086-04 (Ground Water)**

Received: 04-Apr-24

Sampled By: PB

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	9.91	mg/L	0.100	0.069		X416077	NMS	04/19/24 11:31	
EPA 200.7	Magnesium	2.02	mg/L	0.500	0.090		X416077	NMS	04/19/24 11:31	
EPA 200.7	Potassium	0.67	mg/L	0.50	0.18		X416077	NMS	04/19/24 11:31	
SM 2340 B	Hardness (as CaCO3)	33.0	mg/L	2.31	0.543		N/A		04/09/24 12:02	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X415016	NMS	04/09/24 12:02	
EPA 200.7	Barium	0.117	mg/L	0.0020	0.0019		X415016	NMS	04/09/24 12:02	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X415016	NMS	04/09/24 12:02	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X415016	NMS	04/09/24 12:02	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X415016	NMS	04/09/24 12:02	
EPA 200.7	Calcium	11.5	mg/L	0.100	0.069		X415016	NMS	04/09/24 12:02	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X415016	NMS	04/09/24 12:02	
EPA 200.7	Cobalt	0.0071	mg/L	0.0060	0.0046		X415016	NMS	04/09/24 12:02	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X415016	NMS	04/09/24 12:02	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X415016	NMS	04/09/24 12:02	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X415016	NMS	04/09/24 12:02	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X415016	NMS	04/09/24 12:02	
EPA 200.7	Magnesium	2.41	mg/L	0.500	0.090		X415016	NMS	04/09/24 12:02	
EPA 200.7	Manganese	0.0109	mg/L	0.0080	0.0034		X415016	NMS	04/09/24 12:02	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X415016	NMS	04/09/24 12:02	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X415016	NMS	04/09/24 12:02	
EPA 200.7	Potassium	0.78	mg/L	0.50	0.18		X415016	NMS	04/09/24 12:02	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X415016	NMS	04/09/24 12:02	
EPA 200.7	Sodium	10.2	mg/L	0.50	0.12		X415016	NMS	04/09/24 12:02	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X415016	NMS	04/09/24 12:02	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X415016	NMS	04/09/24 12:02	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X415044	SMU	04/13/24 15:21	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X415044	SMU	04/13/24 15:21	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X415044	SMU	04/13/24 15:21	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X415044	SMU	04/13/24 15:21	
EPA 200.8	Uranium	0.000101	mg/L	0.000100	0.000052		X415044	SMU	04/13/24 15:21	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X415207	MAC	04/15/24 16:27	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X415113	DD	04/10/24 13:12	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X415003	DD	04/08/24 14:29	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X415055	DD	04/10/24 09:47	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X416129	DD	04/26/24 13:27	H1
SM 2310 B	Acidity to pH 8.3	-35.5	mg/L as CaCO3	10.0			X415194	MWD	04/12/24 09:40	
SM 2320 B	Total Alkalinity	37.3	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 16:56	
SM 2320 B	Bicarbonate	37.3	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 16:56	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 16:56	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 16:56	
SM 2540 C	Total Diss. Solids	104	mg/L	10			X414198	TJL	04/08/24 14:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X414200	TJL	04/08/24 15:55	
SM 4500 H B	pH @17.8°C	6.6	pH Units				X414208	MWD	04/08/24 16:56	H5

SVL holds the following certifications:

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

Work



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Kellogg, ID 83837-0929
(208) 784-1258
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Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4D0086 Reported: 02-May-24 15:02

Client Sample ID: **GVMW-126G**
SVL Sample ID: **X4D0086-04 (Ground Water)**

Sampled: 03-Apr-24 10:59
Received: 04-Apr-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	1.92	mg/L	0.20	0.02		X414183	KAG	04/04/24 20:48	
EPA 300.0	Fluoride	0.216	mg/L	0.100	0.017		X414183	KAG	04/04/24 20:48	
EPA 300.0	Nitrate as N	0.584	mg/L	0.050	0.013		X414183	KAG	04/04/24 20:48	
EPA 300.0	Nitrate+Nitrite as N	0.584	mg/L	0.100	0.044		X414183	KAG	04/04/24 20:48	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X414183	KAG	04/04/24 20:48	
EPA 300.0	Sulfate as SO4	21.6	mg/L	0.30	0.18		X414183	KAG	04/04/24 20:48	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1.14 meq/L	Anion Sum: 1.30 meq/L	C/A Balance: -6.80 %	Calculated TDS: 73	TDS/cTDS: 1.43

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



Kathryn Salter
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0086**

Reported: 02-May-24 15:02

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X416077	19-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X416077	19-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X416077	19-Apr-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X415016	09-Apr-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X415016	09-Apr-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X415016	09-Apr-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X415016	09-Apr-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X415016	09-Apr-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X415016	09-Apr-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X415016	09-Apr-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X415016	09-Apr-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X415016	09-Apr-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X415016	09-Apr-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X415016	09-Apr-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X415016	09-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X415016	09-Apr-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X415016	09-Apr-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X415016	09-Apr-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X415016	09-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X415016	09-Apr-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X415016	09-Apr-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X415016	09-Apr-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X415016	09-Apr-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X415016	09-Apr-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X415044	13-Apr-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X415044	13-Apr-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X415044	13-Apr-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X415044	13-Apr-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X415044	13-Apr-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X415207	15-Apr-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X415113	10-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X415003	08-Apr-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X415055	10-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X416129	26-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X418218	02-May-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X415194	12-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X414208	08-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X414208	08-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X414208	08-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X414208	08-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X414198	08-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X414200	08-Apr-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X414183	04-Apr-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X414183	04-Apr-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X414183	04-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X414183	04-Apr-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X414183	04-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X414183	04-Apr-24	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0086**

Reported: 02-May-24 15:02

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes

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

EPA 200.7	Calcium	mg/L	19.7	20.0	99	85 - 115	X416077	19-Apr-24	
EPA 200.7	Magnesium	mg/L	19.9	20.0	99.7	85 - 115	X416077	19-Apr-24	
EPA 200.7	Potassium	mg/L	20.3	20.0	102	85 - 115	X416077	19-Apr-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.919	1.00	91.9	85 - 115	X415016	09-Apr-24	
EPA 200.7	Barium	mg/L	0.996	1.00	99.6	85 - 115	X415016	09-Apr-24	
EPA 200.7	Beryllium	mg/L	0.996	1.00	99.6	85 - 115	X415016	09-Apr-24	
EPA 200.7	Boron	mg/L	0.967	1.00	96.7	85 - 115	X415016	09-Apr-24	
EPA 200.7	Cadmium	mg/L	0.987	1.00	98.7	85 - 115	X415016	09-Apr-24	
EPA 200.7	Calcium	mg/L	19.7	20.0	98.5	85 - 115	X415016	09-Apr-24	
EPA 200.7	Chromium	mg/L	0.985	1.00	98.5	85 - 115	X415016	09-Apr-24	
EPA 200.7	Cobalt	mg/L	0.979	1.00	97.9	85 - 115	X415016	09-Apr-24	
EPA 200.7	Copper	mg/L	0.980	1.00	98.0	85 - 115	X415016	09-Apr-24	
EPA 200.7	Iron	mg/L	9.83	10.0	98.3	85 - 115	X415016	09-Apr-24	
EPA 200.7	Lead	mg/L	0.976	1.00	97.6	85 - 115	X415016	09-Apr-24	
EPA 200.7	Lithium	mg/L	1.00	1.00	100	85 - 115	X415016	09-Apr-24	
EPA 200.7	Magnesium	mg/L	19.6	20.0	98.1	85 - 115	X415016	09-Apr-24	
EPA 200.7	Manganese	mg/L	0.999	1.00	99.9	85 - 115	X415016	09-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.985	1.00	98.5	85 - 115	X415016	09-Apr-24	
EPA 200.7	Nickel	mg/L	0.971	1.00	97.1	85 - 115	X415016	09-Apr-24	
EPA 200.7	Potassium	mg/L	20.1	20.0	100	85 - 115	X415016	09-Apr-24	
EPA 200.7	Silver	mg/L	0.0530	0.0500	106	85 - 115	X415016	09-Apr-24	
EPA 200.7	Sodium	mg/L	18.1	19.0	95.3	85 - 115	X415016	09-Apr-24	
EPA 200.7	Vanadium	mg/L	0.993	1.00	99.3	85 - 115	X415016	09-Apr-24	
EPA 200.7	Zinc	mg/L	0.980	1.00	98.0	85 - 115	X415016	09-Apr-24	
EPA 200.8	Antimony	mg/L	0.0255	0.0250	102	85 - 115	X415044	13-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0234	0.0250	93.5	85 - 115	X415044	13-Apr-24	
EPA 200.8	Selenium	mg/L	0.0223	0.0250	89.3	85 - 115	X415044	13-Apr-24	
EPA 200.8	Thallium	mg/L	0.0255	0.0250	102	85 - 115	X415044	13-Apr-24	
EPA 200.8	Uranium	mg/L	0.0260	0.0250	104	85 - 115	X415044	13-Apr-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00223	0.00200	111	85 - 115	X415207	15-Apr-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.102	0.100	102	90 - 110	X415113	10-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X415003	08-Apr-24	
EPA 350.1	Ammonia as N	mg/L	0.999	1.00	99.9	90 - 110	X415055	10-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X418218	02-May-24	
OIA 1677	Cyanide (WAD)	mg/L	0.110	0.100	110	90 - 110	X416129	26-Apr-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1620	1640	99.0	95.4 - 104	X415194	12-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.2	9.93	103	96.4 - 105	X414208	08-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	96.4 - 105	X414208	08-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X414200	08-Apr-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.98	3.00	99.4	90 - 110	X414183	04-Apr-24	
EPA 300.0	Fluoride	mg/L	1.96	2.00	98.0	90 - 110	X414183	04-Apr-24	
EPA 300.0	Nitrate as N	mg/L	1.97	2.00	98.6	90 - 110	X414183	04-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.46	4.50	99.2	90 - 110	X414183	04-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.49	2.50	99.6	90 - 110	X414183	04-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X414183	04-Apr-24	

SVL holds the following certifications:

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

Work

Page 15 of 20

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0086**

Reported: 02-May-24 15:02

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	<10.0	<10.0	UDL	20	X415194 - X4D0086-01	12-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	157	157	0.1	20	X414208 - X4D0086-02	08-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	157	157	0.1	20	X414208 - X4D0086-02	08-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X414208 - X4D0086-02	08-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X414208 - X4D0086-02	08-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	183	174	5.0	10	X414198 - X4D0086-02	08-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	276	291	5.3	10	X414198 - X4D0095-04	08-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	11.0	9.5	10	X414200 - X4D0086-02	08-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X414200 - X4D0095-04	08-Apr-24	
SM 4500 H B	pH @18.1°C	pH Units	7.6	7.6	0.3	20	X414208 - X4D0086-02	08-Apr-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	20.3	0.250	20.0	100	70 - 130	X416077 - X4D0086-01	19-Apr-24	
EPA 200.7	Calcium	mg/L	56.0	36.8	20.0	96	70 - 130	X416077 - X4D0124-04	19-Apr-24	
EPA 200.7	Magnesium	mg/L	20.9	<0.500	20.0	105	70 - 130	X416077 - X4D0086-01	19-Apr-24	
EPA 200.7	Magnesium	mg/L	37.0	16.7	20.0	101	70 - 130	X416077 - X4D0124-04	19-Apr-24	
EPA 200.7	Potassium	mg/L	110	88.3	20.0	110	70 - 130	X416077 - X4D0086-01	19-Apr-24	
EPA 200.7	Potassium	mg/L	21.3	0.91	20.0	102	70 - 130	X416077 - X4D0124-04	19-Apr-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.972	<0.080	1.00	97.2	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Aluminum	mg/L	0.976	<0.080	1.00	97.6	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Barium	mg/L	1.05	<0.0020	1.00	105	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Barium	mg/L	1.06	<0.0020	1.00	106	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Beryllium	mg/L	1.04	<0.00200	1.00	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Beryllium	mg/L	1.04	<0.00200	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	103	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Cadmium	mg/L	1.05	<0.0020	1.00	105	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Cadmium	mg/L	1.04	<0.0020	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Calcium	mg/L	20.9	0.155	20.0	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Calcium	mg/L	20.7	<0.100	20.0	103	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Chromium	mg/L	1.04	<0.0060	1.00	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Chromium	mg/L	1.04	<0.0060	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Cobalt	mg/L	1.03	<0.0060	1.00	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Cobalt	mg/L	1.02	<0.0060	1.00	102	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Copper	mg/L	1.04	<0.0100	1.00	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Copper	mg/L	1.04	<0.0100	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Iron	mg/L	10.4	<0.100	10.0	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Iron	mg/L	10.4	<0.100	10.0	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Lead	mg/L	1.03	<0.0075	1.00	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Lead	mg/L	1.02	<0.0075	1.00	102	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Lithium	mg/L	1.03	<0.040	1.00	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Lithium	mg/L	1.04	<0.040	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Magnesium	mg/L	20.7	<0.500	20.0	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Magnesium	mg/L	20.6	<0.500	20.0	103	70 - 130	X415016 - X4D0124-07	09-Apr-24	

SVL holds the following certifications:

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

Work Page 16 of 20


Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0086**

Reported: 02-May-24 15:02

Quality Control - MATRIX SPIKE Data (Continued)

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

Metals (Dissolved) (Continued)

EPA 200.7	Manganese	mg/L	1.06	0.0115	1.00	105	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Manganese	mg/L	1.05	<0.0080	1.00	105	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Molybdenum	mg/L	1.02	<0.0080	1.00	102	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Molybdenum	mg/L	1.02	<0.0080	1.00	102	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Nickel	mg/L	1.03	<0.0100	1.00	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Nickel	mg/L	1.01	<0.0100	1.00	101	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Potassium	mg/L	38.2	16.9	20.0	107	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Potassium	mg/L	21.3	<0.50	20.0	107	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Silver	mg/L	0.0572	<0.0050	0.0500	114	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Silver	mg/L	0.0570	<0.0050	0.0500	114	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Sodium	mg/L	19.3	<0.50	19.0	100	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Sodium	mg/L	19.3	<0.50	19.0	100	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Vanadium	mg/L	1.05	<0.0050	1.00	105	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Vanadium	mg/L	1.04	<0.0050	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Zinc	mg/L	1.04	<0.0100	1.00	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Zinc	mg/L	1.02	<0.0100	1.00	102	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.8	Antimony	mg/L	0.0307	<0.00100	0.0250	123	70 - 130	X415044 - X4D0086-01	13-Apr-24	
EPA 200.8	Antimony	mg/L	0.0332	<0.00100	0.0250	133	70 - 130	X415044 - X4D0124-01	13-Apr-24	M1
EPA 200.8	Arsenic	mg/L	0.0298	<0.00100	0.0250	119	70 - 130	X415044 - X4D0086-01	13-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0328	<0.00100	0.0250	131	70 - 130	X415044 - X4D0124-01	13-Apr-24	M1
EPA 200.8	Selenium	mg/L	0.0307	<0.00100	0.0250	123	70 - 130	X415044 - X4D0086-01	13-Apr-24	
EPA 200.8	Selenium	mg/L	0.0344	<0.00100	0.0250	134	70 - 130	X415044 - X4D0124-01	13-Apr-24	M1
EPA 200.8	Thallium	mg/L	0.0287	<0.000200	0.0250	115	70 - 130	X415044 - X4D0086-01	13-Apr-24	
EPA 200.8	Thallium	mg/L	0.0311	<0.000200	0.0250	124	70 - 130	X415044 - X4D0124-01	13-Apr-24	
EPA 200.8	Uranium	mg/L	0.0292	<0.000100	0.0250	117	70 - 130	X415044 - X4D0086-01	13-Apr-24	
EPA 200.8	Uranium	mg/L	0.0353	0.00230	0.0250	132	70 - 130	X415044 - X4D0124-01	13-Apr-24	M1

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00234	<0.000200	0.00200	117	70 - 130	X415207 - X4D0080-01	15-Apr-24	
EPA 245.1	Mercury	mg/L	0.00218	<0.000200	0.00200	109	70 - 130	X415207 - X4D0124-03	15-Apr-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0940	<0.0050	0.100	94.0	79 - 121	X415113 - X4D0086-01	10-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.104	<0.0050	0.100	104	90 - 110	X415003 - X4D0086-03	08-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.0976	<0.0050	0.100	97.6	90 - 110	X415003 - X4D0086-01	08-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	102	90 - 110	X415055 - X4D0139-03	10-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X415055 - X4D0139-01	10-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.107	<0.0050	0.100	107	82 - 118	X418218 - X4D0086-05	02-May-24	
OIA 1677	Cyanide (WAD)	mg/L	0.101	<0.0050	0.100	99.0	82 - 118	X416129 - X4D0086-01	26-Apr-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.08	<0.20	3.00	97.7	90 - 110	X414183 - X4D0085-03	04-Apr-24	
EPA 300.0	Chloride	mg/L	17.4	14.3	3.00	105	90 - 110	X414183 - X4D0086-01	05-Apr-24	D2
EPA 300.0	Fluoride	mg/L	1.95	<0.100	2.00	97.7	90 - 110	X414183 - X4D0085-03	04-Apr-24	
EPA 300.0	Fluoride	mg/L	1.99	<0.100	2.00	97.6	90 - 110	X414183 - X4D0086-01	04-Apr-24	
EPA 300.0	Nitrate as N	mg/L	1.95	<0.050	2.00	97.7	90 - 110	X414183 - X4D0085-03	04-Apr-24	
EPA 300.0	Nitrate as N	mg/L	1.95	<0.050	2.00	97.6	90 - 110	X414183 - X4D0086-01	04-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.98	<0.100	4.00	99.4	90 - 110	X414183 - X4D0085-03	04-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.97	<0.100	4.00	99.3	90 - 110	X414183 - X4D0086-01	04-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X414183 - X4D0085-03	04-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X414183 - X4D0086-01	04-Apr-24	

SVL holds the following certifications:

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


Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0086**

Reported: 02-May-24 15:02

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO ₄	mg/L	10.3	<0.30	10.0	103	90 - 110	X414183 - X4D0085-03	04-Apr-24	
EPA 300.0	Sulfate as SO ₄	mg/L	10.8	0.58	10.0	102	90 - 110	X414183 - X4D0086-01	04-Apr-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	20.3	20.3	20.0	0.1	20	100	X416077 - X4D0086-01	
EPA 200.7	Magnesium	mg/L	20.9	20.9	20.0	0.4	20	104	X416077 - X4D0086-01	
EPA 200.7	Potassium	mg/L	111	110	20.0	0.3	20	112	X416077 - X4D0086-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.967	0.972	1.00	0.4	20	96.7	X415016 - X4D0086-01	
EPA 200.7	Barium	mg/L	1.05	1.05	1.00	0.2	20	105	X415016 - X4D0086-01	
EPA 200.7	Beryllium	mg/L	1.04	1.04	1.00	0.0	20	104	X415016 - X4D0086-01	
EPA 200.7	Boron	mg/L	1.03	1.03	1.00	0.4	20	103	X415016 - X4D0086-01	
EPA 200.7	Cadmium	mg/L	1.05	1.05	1.00	0.1	20	105	X415016 - X4D0086-01	
EPA 200.7	Calcium	mg/L	20.7	20.9	20.0	1.0	20	103	X415016 - X4D0086-01	
EPA 200.7	Chromium	mg/L	1.04	1.04	1.00	0.2	20	104	X415016 - X4D0086-01	
EPA 200.7	Cobalt	mg/L	1.03	1.03	1.00	0.1	20	103	X415016 - X4D0086-01	
EPA 200.7	Copper	mg/L	1.05	1.04	1.00	0.7	20	105	X415016 - X4D0086-01	
EPA 200.7	Iron	mg/L	10.3	10.4	10.0	0.5	20	103	X415016 - X4D0086-01	
EPA 200.7	Lead	mg/L	1.02	1.03	1.00	0.5	20	102	X415016 - X4D0086-01	
EPA 200.7	Lithium	mg/L	1.04	1.03	1.00	0.7	20	104	X415016 - X4D0086-01	
EPA 200.7	Magnesium	mg/L	20.5	20.7	20.0	0.9	20	102	X415016 - X4D0086-01	
EPA 200.7	Manganese	mg/L	1.05	1.06	1.00	0.6	20	104	X415016 - X4D0086-01	
EPA 200.7	Molybdenum	mg/L	1.03	1.02	1.00	0.2	20	103	X415016 - X4D0086-01	
EPA 200.7	Nickel	mg/L	1.02	1.03	1.00	0.4	20	102	X415016 - X4D0086-01	
EPA 200.7	Potassium	mg/L	38.2	38.2	20.0	0.2	20	106	X415016 - X4D0086-01	
EPA 200.7	Silver	mg/L	0.0571	0.0572	0.0500	0.2	20	114	X415016 - X4D0086-01	
EPA 200.7	Sodium	mg/L	19.3	19.3	19.0	0.1	20	100	X415016 - X4D0086-01	
EPA 200.7	Vanadium	mg/L	1.04	1.05	1.00	0.6	20	104	X415016 - X4D0086-01	
EPA 200.7	Zinc	mg/L	1.04	1.04	1.00	0.3	20	104	X415016 - X4D0086-01	
EPA 200.8	Antimony	mg/L	0.0310	0.0307	0.0250	1.2	20	124	X415044 - X4D0086-01	
EPA 200.8	Arsenic	mg/L	0.0300	0.0298	0.0250	0.7	20	120	X415044 - X4D0086-01	
EPA 200.8	Selenium	mg/L	0.0314	0.0307	0.0250	2.3	20	125	X415044 - X4D0086-01	
EPA 200.8	Thallium	mg/L	0.0288	0.0287	0.0250	0.6	20	115	X415044 - X4D0086-01	
EPA 200.8	Uranium	mg/L	0.0293	0.0292	0.0250	0.2	20	117	X415044 - X4D0086-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00243	0.00234	0.00200	3.9	20	122	X415207 - X4D0080-01	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.103	0.0940	0.100	9.1	11	103	X415113 - X4D0086-01	
EPA 335.4	Cyanide (total)	mg/L	0.108	0.104	0.100	4.1	20	108	X415003 - X4D0086-03	
EPA 350.1	Ammonia as N	mg/L	1.02	1.02	1.00	0.9	20	102	X415055 - X4D0139-03	
OIA 1677	Cyanide (WAD)	mg/L	0.112	0.101	0.100	10.3	11	110	X416129 - X4D0086-01	
OIA 1677	Cyanide (WAD)	mg/L	0.109	0.107	0.100	1.9	11	109	X418218 - X4D0086-05	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.14	3.08	3.00	1.9	20	99.7	X414183 - X4D0085-03	
EPA 300.0	Fluoride	mg/L	1.99	1.95	2.00	1.9	20	99.6	X414183 - X4D0085-03	
EPA 300.0	Nitrate as N	mg/L	1.99	1.95	2.00	1.9	20	99.6	X414183 - X4D0085-03	

SVL holds the following certifications:

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

Work



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: X4D0086
Reported: 02-May-24 15:02

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	Nitrate+Nitrite as N	mg/L	4.06	3.98	4.00	2.0	20	101	X414183 - X4D0085-03	
EPA 300.0	Nitrite as N	mg/L	2.06	2.02	2.00	2.1	20	103	X414183 - X4D0085-03	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.3	10.0	2.3	20	105	X414183 - X4D0085-03	



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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0086**

Reported: 02-May-24 15:02

Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
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

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0124**

Reported: 02-May-24 14:24

Client Sample ID: **GVMW-107F**

Sampled: 04-Apr-24 11:59

Received: 05-Apr-24

Sampled By: PB

SVL Sample ID: **X4D0124-05 (Ground Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	36.1	mg/L	0.100	0.069		X416077	NMS	04/19/24 12:15	
EPA 200.7	Magnesium	16.3	mg/L	0.500	0.090		X416077	NMS	04/19/24 12:15	
EPA 200.7	Potassium	0.91	mg/L	0.50	0.18		X416077	NMS	04/19/24 12:15	
SM 2340 B	Hardness (as CaCO3)	161	mg/L	2.31	0.543		N/A		04/19/24 12:15	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X415016	NMS	04/09/24 13:05	
EPA 200.7	Barium	0.160	mg/L	0.0020	0.0019		X415016	NMS	04/09/24 13:05	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X415016	NMS	04/09/24 13:05	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X415016	NMS	04/09/24 13:05	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X415016	NMS	04/09/24 13:05	
EPA 200.7	Calcium	36.2	mg/L	0.100	0.069		X415016	NMS	04/09/24 13:05	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X415016	NMS	04/09/24 13:05	
EPA 200.7	Cobalt	0.0066	mg/L	0.0060	0.0046		X415016	NMS	04/09/24 13:05	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X415016	NMS	04/09/24 13:05	
EPA 200.7	Iron	1.10	mg/L	0.100	0.056		X415016	NMS	04/09/24 13:05	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X415016	NMS	04/09/24 13:05	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X415016	NMS	04/09/24 13:05	
EPA 200.7	Magnesium	17.2	mg/L	0.500	0.090		X415016	NMS	04/09/24 13:05	
EPA 200.7	Manganese	0.231	mg/L	0.0080	0.0034		X415016	NMS	04/09/24 13:05	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X415016	NMS	04/09/24 13:05	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X415016	NMS	04/09/24 13:05	
EPA 200.7	Potassium	0.93	mg/L	0.50	0.18		X415016	NMS	04/09/24 13:05	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X415016	NMS	04/09/24 13:05	
EPA 200.7	Sodium	9.41	mg/L	0.50	0.12		X415016	NMS	04/09/24 13:05	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X415016	NMS	04/09/24 13:05	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X415016	NMS	04/09/24 13:05	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X415044	SMU	04/13/24 16:01	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X415044	SMU	04/13/24 16:01	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X415044	SMU	04/13/24 16:01	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X415044	SMU	04/13/24 16:01	
EPA 200.8	Uranium	0.00406	mg/L	0.000100	0.000052		X415044	SMU	04/13/24 16:01	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X415207	MAC	04/15/24 16:50	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X415113	DD	04/10/24 13:26	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X415003	DD	04/08/24 14:59	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X415055	DD	04/10/24 10:01	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X416129	DD	04/26/24 13:42	H1
SM 2310 B	Acidity to pH 8.3	-162	mg/L as CaCO3	10.0			X415194	MWD	04/12/24 09:40	
SM 2320 B	Total Alkalinity	156	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 17:53	
SM 2320 B	Bicarbonate	156	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 17:53	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 17:53	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 17:53	
SM 2540 C	Total Diss. Solids	194	mg/L	10			X415009	TJL	04/09/24 14:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X415011	TJL	04/09/24 15:20	
SM 4500 H B	pH @19.2°C	7.3	pH Units				X414208	MWD	04/08/24 17:53	H5

SVL holds the following certifications:

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

Work Page 10 of 21



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Newmont - Cripple Creek & Victor	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4D0124
Victor, CO 80860	Reported: 02-May-24 14:24

Client Sample ID: GVMW-107F
SVL Sample ID: X4D0124-05 (Ground Water)

Sampled: 04-Apr-24 11:59
Received: 05-Apr-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	5.84	mg/L	0.20	0.02		X414122	RS	04/05/24 18:34	
EPA 300.0	Fluoride	0.916	mg/L	0.100	0.017		X414122	RS	04/05/24 18:34	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X414122	RS	04/05/24 18:34	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X414122	RS	04/05/24 18:34	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X414122	RS	04/05/24 18:34	
EPA 300.0	Sulfate as SO4	18.0	mg/L	0.30	0.18		X414122	RS	04/05/24 18:34	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.64 meq/L	Anion Sum: 3.71 meq/L	C/A Balance: -0.97 %	Calculated TDS: 182	TDS/cTDS: 1.07

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

Kathryn Salter

Kathryn Salter
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0124**

Reported: 02-May-24 14:24

Client Sample ID: **RB-0404**

Sampled: 04-Apr-24 11:15

Received: 05-Apr-24

Sampled By: PB

SVL Sample ID: **X4D0124-07 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes

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

EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X416077	NMS	04/19/24 12:22	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X416077	NMS	04/19/24 12:22	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X416077	NMS	04/19/24 12:22	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		04/09/24 13:12	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X415016	NMS	04/09/24 13:12	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X415016	NMS	04/09/24 13:12	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X415016	NMS	04/09/24 13:12	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X415016	NMS	04/09/24 13:12	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X415016	NMS	04/09/24 13:12	
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X415016	NMS	04/09/24 13:12	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X415016	NMS	04/09/24 13:12	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X415016	NMS	04/09/24 13:12	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X415016	NMS	04/09/24 13:12	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X415016	NMS	04/09/24 13:12	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X415016	NMS	04/09/24 13:12	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X415016	NMS	04/09/24 13:12	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X415016	NMS	04/09/24 13:12	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X415016	NMS	04/09/24 13:12	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X415016	NMS	04/09/24 13:12	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X415016	NMS	04/09/24 13:12	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X415016	NMS	04/09/24 13:12	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X415016	NMS	04/09/24 13:12	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X415016	NMS	04/09/24 13:12	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X415016	NMS	04/09/24 13:12	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X415016	NMS	04/09/24 13:12	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X415044	SMU	04/13/24 16:06	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X415044	SMU	04/13/24 16:06	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X415044	SMU	04/13/24 16:06	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X415044	SMU	04/13/24 16:06	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X415044	SMU	04/13/24 16:06	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X415207	MAC	04/15/24 16:54	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X415113	DD	04/10/24 14:47	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X415003	DD	04/08/24 15:04	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X415055	DD	04/10/24 10:13	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X416129	DD	04/26/24 13:45	H1
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X415194	MWD	04/12/24 09:40	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 18:03	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 18:03	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 18:03	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X414208	MWD	04/08/24 18:03	
SM 2540 C	Total Diss. Solids	< 10	mg/L	10			X415009	TJL	04/09/24 14:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X415011	TJL	04/09/24 15:20	
SM 4500 H B	pH @19.4°C	5.9	pH Units				X414208	MWD	04/08/24 18:03	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	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4D0124
Victor, CO 80860	Reported: 02-May-24 14:24

Client Sample ID: **RB-0404**

SVL Sample ID: **X4D0124-07 (Ground Water)**

Sample Report Page 2 of 2

Sampled: 04-Apr-24 11:15
Received: 05-Apr-24
Sampled By: PB

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		X414122	RS	04/05/24 14:35	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X414122	RS	04/05/24 14:35	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X414122	RS	04/05/24 14:35	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X414122	RS	04/05/24 14:35	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X414122	RS	04/05/24 14:35	
EPA 300.0	Sulfate as SO4	< 0.30	mg/L	0.30	0.18		X414122	RS	04/05/24 14:35	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.03 meq/L	Anion Sum: 0.03 meq/L	C/A Balance: 0.25 %	Calculated TDS: 0	TDS/cTDS: 0.00

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

Kathryn Salter

Kathryn Salter
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0124**

Reported: 02-May-24 14:24

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes

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

EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X416077	19-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X416077	19-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X416077	19-Apr-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X415016	09-Apr-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X415016	09-Apr-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X415016	09-Apr-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X415016	09-Apr-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X415016	09-Apr-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X415016	09-Apr-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X415016	09-Apr-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X415016	09-Apr-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X415016	09-Apr-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X415016	09-Apr-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X415016	09-Apr-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X415016	09-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X415016	09-Apr-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X415016	09-Apr-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X415016	09-Apr-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X415016	09-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X415016	09-Apr-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X415016	09-Apr-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X415016	09-Apr-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X415016	09-Apr-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X415016	09-Apr-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X415044	13-Apr-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X415044	13-Apr-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X415044	13-Apr-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X415044	13-Apr-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X415044	13-Apr-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X415207	15-Apr-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X415113	10-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X415003	08-Apr-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X415055	10-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X416129	26-Apr-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X415194	12-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X414208	08-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X414208	08-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X414208	08-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X414208	08-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X415009	09-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X415011	09-Apr-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X414122	05-Apr-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X414122	05-Apr-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X414122	05-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X414122	05-Apr-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X414122	05-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X414122	05-Apr-24	



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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0124**

Reported: 02-May-24 14:24

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	19.7	20.0	99	85 - 115	X416077	19-Apr-24	
EPA 200.7	Magnesium	mg/L	19.9	20.0	99.7	85 - 115	X416077	19-Apr-24	
EPA 200.7	Potassium	mg/L	20.3	20.0	102	85 - 115	X416077	19-Apr-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.919	1.00	91.9	85 - 115	X415016	09-Apr-24	
EPA 200.7	Barium	mg/L	0.996	1.00	99.6	85 - 115	X415016	09-Apr-24	
EPA 200.7	Beryllium	mg/L	0.996	1.00	99.6	85 - 115	X415016	09-Apr-24	
EPA 200.7	Boron	mg/L	0.967	1.00	96.7	85 - 115	X415016	09-Apr-24	
EPA 200.7	Cadmium	mg/L	0.987	1.00	98.7	85 - 115	X415016	09-Apr-24	
EPA 200.7	Calcium	mg/L	19.7	20.0	98.5	85 - 115	X415016	09-Apr-24	
EPA 200.7	Chromium	mg/L	0.985	1.00	98.5	85 - 115	X415016	09-Apr-24	
EPA 200.7	Cobalt	mg/L	0.979	1.00	97.9	85 - 115	X415016	09-Apr-24	
EPA 200.7	Copper	mg/L	0.980	1.00	98.0	85 - 115	X415016	09-Apr-24	
EPA 200.7	Iron	mg/L	9.83	10.0	98.3	85 - 115	X415016	09-Apr-24	
EPA 200.7	Lead	mg/L	0.976	1.00	97.6	85 - 115	X415016	09-Apr-24	
EPA 200.7	Lithium	mg/L	1.00	1.00	100	85 - 115	X415016	09-Apr-24	
EPA 200.7	Magnesium	mg/L	19.6	20.0	98.1	85 - 115	X415016	09-Apr-24	
EPA 200.7	Manganese	mg/L	0.999	1.00	99.9	85 - 115	X415016	09-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.985	1.00	98.5	85 - 115	X415016	09-Apr-24	
EPA 200.7	Nickel	mg/L	0.971	1.00	97.1	85 - 115	X415016	09-Apr-24	
EPA 200.7	Potassium	mg/L	20.1	20.0	100	85 - 115	X415016	09-Apr-24	
EPA 200.7	Silver	mg/L	0.0530	0.0500	106	85 - 115	X415016	09-Apr-24	
EPA 200.7	Sodium	mg/L	18.1	19.0	95.3	85 - 115	X415016	09-Apr-24	
EPA 200.7	Vanadium	mg/L	0.993	1.00	99.3	85 - 115	X415016	09-Apr-24	
EPA 200.7	Zinc	mg/L	0.980	1.00	98.0	85 - 115	X415016	09-Apr-24	
EPA 200.8	Antimony	mg/L	0.0255	0.0250	102	85 - 115	X415044	13-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0234	0.0250	93.5	85 - 115	X415044	13-Apr-24	
EPA 200.8	Selenium	mg/L	0.0223	0.0250	89.3	85 - 115	X415044	13-Apr-24	
EPA 200.8	Thallium	mg/L	0.0255	0.0250	102	85 - 115	X415044	13-Apr-24	
EPA 200.8	Uranium	mg/L	0.0260	0.0250	104	85 - 115	X415044	13-Apr-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00223	0.00200	111	85 - 115	X415207	15-Apr-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.102	0.100	102	90 - 110	X415113	10-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X415003	08-Apr-24	
EPA 350.1	Ammonia as N	mg/L	0.999	1.00	99.9	90 - 110	X415055	10-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.110	0.100	110	90 - 110	X416129	26-Apr-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1620	1640	99.0	95.4 - 104	X415194	12-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.2	9.93	103	96.4 - 105	X414208	08-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	96.4 - 105	X414208	08-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X415011	09-Apr-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.98	3.00	99.2	90 - 110	X414122	05-Apr-24	
EPA 300.0	Fluoride	mg/L	1.93	2.00	96.6	90 - 110	X414122	05-Apr-24	
EPA 300.0	Nitrate as N	mg/L	1.97	2.00	98.3	90 - 110	X414122	05-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.44	4.50	98.6	90 - 110	X414122	05-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.47	2.50	98.9	90 - 110	X414122	05-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	10.3	10.0	103	90 - 110	X414122	05-Apr-24	

SVL holds the following certifications:

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

Work

Page 17 of 21



Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0124**

Reported: 02-May-24 14:24

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	<10.0	<10.0	UDL	20	X415194 - X4D0086-01	12-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	157	157	0.1	20	X414208 - X4D0086-02	08-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	157	157	0.1	20	X414208 - X4D0086-02	08-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X414208 - X4D0086-02	08-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X414208 - X4D0086-02	08-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	251	261	3.9	10	X415009 - X4D0124-02	09-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	346	356	2.9	10	X415009 - X4D0107-02	09-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X415011 - X4D0107-02	09-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X415011 - X4D0124-02	09-Apr-24	
SM 4500 H B	pH @18.1°C	pH Units	7.6	7.6	0.3	20	X414208 - X4D0086-02	08-Apr-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	20.3	0.250	20.0	100	70 - 130	X416077 - X4D0086-01	19-Apr-24	
EPA 200.7	Calcium	mg/L	56.0	36.8	20.0	96	70 - 130	X416077 - X4D0124-04	19-Apr-24	
EPA 200.7	Magnesium	mg/L	20.9	<0.500	20.0	105	70 - 130	X416077 - X4D0086-01	19-Apr-24	
EPA 200.7	Magnesium	mg/L	37.0	16.7	20.0	101	70 - 130	X416077 - X4D0124-04	19-Apr-24	
EPA 200.7	Potassium	mg/L	110	88.3	20.0	110	70 - 130	X416077 - X4D0086-01	19-Apr-24	
EPA 200.7	Potassium	mg/L	21.3	0.91	20.0	102	70 - 130	X416077 - X4D0124-04	19-Apr-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.972	<0.080	1.00	97.2	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Aluminum	mg/L	0.976	<0.080	1.00	97.6	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Barium	mg/L	1.05	<0.0020	1.00	105	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Barium	mg/L	1.06	<0.0020	1.00	106	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Beryllium	mg/L	1.04	<0.00200	1.00	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Beryllium	mg/L	1.04	<0.00200	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	103	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Cadmium	mg/L	1.05	<0.0020	1.00	105	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Cadmium	mg/L	1.04	<0.0020	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Calcium	mg/L	20.9	0.155	20.0	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Calcium	mg/L	20.7	<0.100	20.0	103	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Chromium	mg/L	1.04	<0.0060	1.00	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Chromium	mg/L	1.04	<0.0060	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Cobalt	mg/L	1.03	<0.0060	1.00	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Cobalt	mg/L	1.02	<0.0060	1.00	102	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Copper	mg/L	1.04	<0.0100	1.00	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Copper	mg/L	1.04	<0.0100	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Iron	mg/L	10.4	<0.100	10.0	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Iron	mg/L	10.4	<0.100	10.0	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Lead	mg/L	1.03	<0.0075	1.00	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Lead	mg/L	1.02	<0.0075	1.00	102	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Lithium	mg/L	1.03	<0.040	1.00	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Lithium	mg/L	1.04	<0.040	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Magnesium	mg/L	20.7	<0.500	20.0	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Magnesium	mg/L	20.6	<0.500	20.0	103	70 - 130	X415016 - X4D0124-07	09-Apr-24	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0124**

Reported: 02-May-24 14:24

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	1.06	0.0115	1.00	105	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Manganese	mg/L	1.05	<0.0080	1.00	105	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Molybdenum	mg/L	1.02	<0.0080	1.00	102	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Molybdenum	mg/L	1.02	<0.0080	1.00	102	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Nickel	mg/L	1.03	<0.0100	1.00	103	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Nickel	mg/L	1.01	<0.0100	1.00	101	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Potassium	mg/L	38.2	16.9	20.0	107	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Potassium	mg/L	21.3	<0.50	20.0	107	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Silver	mg/L	0.0572	<0.0050	0.0500	114	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Silver	mg/L	0.0570	<0.0050	0.0500	114	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Sodium	mg/L	19.3	<0.50	19.0	100	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Sodium	mg/L	19.3	<0.50	19.0	100	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Vanadium	mg/L	1.05	<0.0050	1.00	105	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Vanadium	mg/L	1.04	<0.0050	1.00	104	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.7	Zinc	mg/L	1.04	<0.0100	1.00	104	70 - 130	X415016 - X4D0086-01	09-Apr-24	
EPA 200.7	Zinc	mg/L	1.02	<0.0100	1.00	102	70 - 130	X415016 - X4D0124-07	09-Apr-24	
EPA 200.8	Antimony	mg/L	0.0307	<0.00100	0.0250	123	70 - 130	X415044 - X4D0086-01	13-Apr-24	
EPA 200.8	Antimony	mg/L	0.0332	<0.00100	0.0250	133	70 - 130	X415044 - X4D0124-01	13-Apr-24	M1
EPA 200.8	Arsenic	mg/L	0.0298	<0.00100	0.0250	119	70 - 130	X415044 - X4D0086-01	13-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0328	<0.00100	0.0250	131	70 - 130	X415044 - X4D0124-01	13-Apr-24	M1
EPA 200.8	Selenium	mg/L	0.0307	<0.00100	0.0250	123	70 - 130	X415044 - X4D0086-01	13-Apr-24	
EPA 200.8	Selenium	mg/L	0.0344	<0.00100	0.0250	134	70 - 130	X415044 - X4D0124-01	13-Apr-24	M1
EPA 200.8	Thallium	mg/L	0.0287	<0.000200	0.0250	115	70 - 130	X415044 - X4D0086-01	13-Apr-24	
EPA 200.8	Thallium	mg/L	0.0311	<0.000200	0.0250	124	70 - 130	X415044 - X4D0124-01	13-Apr-24	
EPA 200.8	Uranium	mg/L	0.0292	<0.000100	0.0250	117	70 - 130	X415044 - X4D0086-01	13-Apr-24	
EPA 200.8	Uranium	mg/L	0.0353	0.00230	0.0250	132	70 - 130	X415044 - X4D0124-01	13-Apr-24	M1
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00234	<0.000200	0.00200	117	70 - 130	X415207 - X4D0080-01	15-Apr-24	
EPA 245.1	Mercury	mg/L	0.00218	<0.000200	0.00200	109	70 - 130	X415207 - X4D0124-03	15-Apr-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0940	<0.0050	0.100	94.0	79 - 121	X415113 - X4D0086-01	10-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.104	<0.0050	0.100	104	90 - 110	X415003 - X4D0086-03	08-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.0976	<0.0050	0.100	97.6	90 - 110	X415003 - X4D0086-01	08-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	102	90 - 110	X415055 - X4D0139-03	10-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X415055 - X4D0139-01	10-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.101	<0.0050	0.100	99.0	82 - 118	X416129 - X4D0086-01	26-Apr-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.08	0.20	3.00	95.8	90 - 110	X414122 - X4D0124-07	05-Apr-24	
EPA 300.0	Fluoride	mg/L	1.94	<0.100	2.00	95.3	90 - 110	X414122 - X4D0124-07	05-Apr-24	
EPA 300.0	Nitrate as N	mg/L	1.91	<0.050	2.00	95.7	90 - 110	X414122 - X4D0124-07	05-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.91	<0.100	4.00	97.9	90 - 110	X414122 - X4D0124-07	05-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.00	<0.050	2.00	100	90 - 110	X414122 - X4D0124-07	05-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	10.1	<0.30	10.0	99.4	90 - 110	X414122 - X4D0124-07	05-Apr-24	



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Kellogg, ID 83837-0929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0124**

Reported: 02-May-24 14:24

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	20.3	20.3	20.0	0.1	20	100	X416077 - X4D0086-01	
EPA 200.7	Magnesium	mg/L	20.9	20.9	20.0	0.4	20	104	X416077 - X4D0086-01	
EPA 200.7	Potassium	mg/L	111	110	20.0	0.3	20	112	X416077 - X4D0086-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.967	0.972	1.00	0.4	20	96.7	X415016 - X4D0086-01	
EPA 200.7	Barium	mg/L	1.05	1.05	1.00	0.2	20	105	X415016 - X4D0086-01	
EPA 200.7	Beryllium	mg/L	1.04	1.04	1.00	0.0	20	104	X415016 - X4D0086-01	
EPA 200.7	Boron	mg/L	1.03	1.03	1.00	0.4	20	103	X415016 - X4D0086-01	
EPA 200.7	Cadmium	mg/L	1.05	1.05	1.00	0.1	20	105	X415016 - X4D0086-01	
EPA 200.7	Calcium	mg/L	20.7	20.9	20.0	1.0	20	103	X415016 - X4D0086-01	
EPA 200.7	Chromium	mg/L	1.04	1.04	1.00	0.2	20	104	X415016 - X4D0086-01	
EPA 200.7	Cobalt	mg/L	1.03	1.03	1.00	0.1	20	103	X415016 - X4D0086-01	
EPA 200.7	Copper	mg/L	1.05	1.04	1.00	0.7	20	105	X415016 - X4D0086-01	
EPA 200.7	Iron	mg/L	10.3	10.4	10.0	0.5	20	103	X415016 - X4D0086-01	
EPA 200.7	Lead	mg/L	1.02	1.03	1.00	0.5	20	102	X415016 - X4D0086-01	
EPA 200.7	Lithium	mg/L	1.04	1.03	1.00	0.7	20	104	X415016 - X4D0086-01	
EPA 200.7	Magnesium	mg/L	20.5	20.7	20.0	0.9	20	102	X415016 - X4D0086-01	
EPA 200.7	Manganese	mg/L	1.05	1.06	1.00	0.6	20	104	X415016 - X4D0086-01	
EPA 200.7	Molybdenum	mg/L	1.03	1.02	1.00	0.2	20	103	X415016 - X4D0086-01	
EPA 200.7	Nickel	mg/L	1.02	1.03	1.00	0.4	20	102	X415016 - X4D0086-01	
EPA 200.7	Potassium	mg/L	38.2	38.2	20.0	0.2	20	106	X415016 - X4D0086-01	
EPA 200.7	Silver	mg/L	0.0571	0.0572	0.0500	0.2	20	114	X415016 - X4D0086-01	
EPA 200.7	Sodium	mg/L	19.3	19.3	19.0	0.1	20	100	X415016 - X4D0086-01	
EPA 200.7	Vanadium	mg/L	1.04	1.05	1.00	0.6	20	104	X415016 - X4D0086-01	
EPA 200.7	Zinc	mg/L	1.04	1.04	1.00	0.3	20	104	X415016 - X4D0086-01	
EPA 200.8	Antimony	mg/L	0.0310	0.0307	0.0250	1.2	20	124	X415044 - X4D0086-01	
EPA 200.8	Arsenic	mg/L	0.0300	0.0298	0.0250	0.7	20	120	X415044 - X4D0086-01	
EPA 200.8	Selenium	mg/L	0.0314	0.0307	0.0250	2.3	20	125	X415044 - X4D0086-01	
EPA 200.8	Thallium	mg/L	0.0288	0.0287	0.0250	0.6	20	115	X415044 - X4D0086-01	
EPA 200.8	Uranium	mg/L	0.0293	0.0292	0.0250	0.2	20	117	X415044 - X4D0086-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00243	0.00234	0.00200	3.9	20	122	X415207 - X4D0080-01	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.103	0.0940	0.100	9.1	11	103	X415113 - X4D0086-01	
EPA 335.4	Cyanide (total)	mg/L	0.108	0.104	0.100	4.1	20	108	X415003 - X4D0086-03	
EPA 350.1	Ammonia as N	mg/L	1.02	1.02	1.00	0.9	20	102	X415055 - X4D0139-03	
OIA 1677	Cyanide (WAD)	mg/L	0.112	0.101	0.100	10.3	11	110	X416129 - X4D0086-01	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.11	3.08	3.00	1.1	20	97.0	X414122 - X4D0124-07	
EPA 300.0	Fluoride	mg/L	1.97	1.94	2.00	1.5	20	96.8	X414122 - X4D0124-07	
EPA 300.0	Nitrate as N	mg/L	1.93	1.91	2.00	1.0	20	96.6	X414122 - X4D0124-07	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.92	3.91	4.00	0.1	20	98.0	X414122 - X4D0124-07	
EPA 300.0	Nitrite as N	mg/L	1.99	2.00	2.00	0.7	20	99.4	X414122 - X4D0124-07	
EPA 300.0	Sulfate as SO4	mg/L	10.3	10.1	10.0	1.3	20	101	X414122 - X4D0124-07	



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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0124**

Reported: 02-May-24 14:24

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
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: **X4D0206**

Reported: 25-Apr-24 13:09

Client Sample ID: **GVMW-125**

Sampled: 10-Apr-24 11:37

Received: 11-Apr-24

Sampled By: PB

SVL Sample ID: **X4D0206-04 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes

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

EPA 200.7	Calcium	430	mg/L	2.00	1.38	20	X416235	NMS	04/23/24 12:23	D2
EPA 200.7	Magnesium	303	mg/L	0.500	0.090		X416235	NMS	04/23/24 11:30	
EPA 200.7	Potassium	7.26	mg/L	0.50	0.18		X416235	NMS	04/23/24 11:30	
SM 2340 B	Hardness (as CaCO3)	2270	mg/L	7.05	3.82		N/A		04/23/24 11:30	

Metals (Dissolved)

EPA 200.7	Aluminum	322	mg/L	0.080	0.054		X416017	NMS	04/16/24 14:18	
EPA 200.7	Barium	0.0120	mg/L	0.0020	0.0019		X416017	NMS	04/16/24 14:18	
EPA 200.7	Beryllium	0.265	mg/L	0.00200	0.00080		X416017	NMS	04/17/24 12:04	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X416017	NMS	04/16/24 14:18	
EPA 200.7	Cadmium	0.779	mg/L	0.0020	0.0016		X416017	NMS	04/16/24 14:18	
EPA 200.7	Calcium	450	mg/L	0.100	0.069		X416017	NMS	04/16/24 14:18	
EPA 200.7	Chromium	0.0232	mg/L	0.0060	0.0020		X416017	NMS	04/16/24 14:18	
EPA 200.7	Cobalt	0.834	mg/L	0.0060	0.0046		X416017	NMS	04/16/24 14:18	
EPA 200.7	Copper	1.19	mg/L	0.0100	0.0027		X416017	NMS	04/16/24 14:18	
EPA 200.7	Iron	0.297	mg/L	0.100	0.056		X416017	NMS	04/16/24 14:18	
EPA 200.7	Lead	0.0087	mg/L	0.0075	0.0049		X416017	NMS	04/16/24 14:18	
EPA 200.7	Lithium	0.198	mg/L	0.040	0.025		X416017	NMS	04/16/24 14:18	
EPA 200.7	Magnesium	291	mg/L	0.500	0.090		X416017	NMS	04/16/24 14:18	
EPA 200.7	Manganese	119	mg/L	0.0800	0.0340	10	X416017	NMS	04/17/24 15:49	D2
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X416017	NMS	04/16/24 14:18	
EPA 200.7	Nickel	1.42	mg/L	0.0100	0.0048		X416017	NMS	04/16/24 14:18	
EPA 200.7	Potassium	6.71	mg/L	0.50	0.18		X416017	NMS	04/16/24 14:18	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X416017	NMS	04/16/24 14:18	
EPA 200.7	Sodium	38.9	mg/L	0.50	0.12		X416017	NMS	04/16/24 14:18	
EPA 200.7	Vanadium	0.0097	mg/L	0.0050	0.0019		X416017	NMS	04/16/24 14:18	
EPA 200.7	Zinc	29.3	mg/L	0.0100	0.0054		X416017	NMS	04/17/24 12:04	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X415243	SMU	04/24/24 11:36	
EPA 200.8	Arsenic	0.00904	mg/L	0.00100	0.00021		X415243	SMU	04/24/24 11:36	M1
EPA 200.8	Selenium	0.0284	mg/L	0.00100	0.00024		X415243	SMU	04/24/24 11:36	M1
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.000400	5	X415243	SMU	04/24/24 13:39	D1
EPA 200.8	Uranium	1.21	mg/L	0.000500	0.000260	5	X415243	SMU	04/24/24 13:39	D1,M4

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X416045	MAC	04/22/24 16:44	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X416100	DD	04/17/24 11:29	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X416002	DD	04/16/24 12:59	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X416053	DD	04/17/24 13:23	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X416130	DD	04/19/24 13:36	
SM 2310 B	Acidity to pH 8.3	2430	mg/L as CaCO3	10.0			X416150	MWD	04/18/24 08:52	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X416068	MWD	04/16/24 14:30	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X416068	MWD	04/16/24 14:30	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X416068	MWD	04/16/24 14:30	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X416068	MWD	04/16/24 14:30	
SM 2540 C	Total Diss. Solids	6300	mg/L	40			X415170	TJL	04/15/24 14:10	D2
SM 2540 D	Total Susp. Solids	23.0	mg/L	5.0			X415171	TJL	04/15/24 16:00	
SM 4500 H B	pH @19.2°C	3.9	pH Units				X416068	MWD	04/16/24 14:30	H5

SVL holds the following certifications:

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

Work order Report Page 8 of 17



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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: X4D0206 Reported: 25-Apr-24 13:09

Client Sample ID: **GVMW-125**
SVL Sample ID: **X4D0206-04 (Ground Water)**

Sampled: 10-Apr-24 11:37
Received: 11-Apr-24
Sampled By: PB

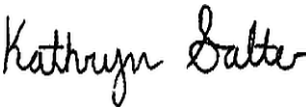
Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	20.8	mg/L	1.00	0.11	5	X415149	RS	04/11/24 15:29	D2
EPA 300.0	Fluoride	9.15	mg/L	0.500	0.085	5	X415149	RS	04/11/24 15:29	D2
EPA 300.0	Nitrate as N	2.77	mg/L	0.250	0.065	5	X415149	RS	04/11/24 15:29	D1
EPA 300.0	Nitrate+Nitrite as N	2.77	mg/L	0.500	0.220	5	X415149	RS	04/11/24 15:29	D1
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X415149	RS	04/11/24 15:29	D1
EPA 300.0	Sulfate as SO4	4380	mg/L	30.0	18.0	100	X415149	RS	04/11/24 15:47	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 95.9 meq/L	Anion Sum: 92.5 meq/L	C/A Balance: 1.80 %	Calculated TDS: 5205	TDS/cTDS: 1.21

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



Kathryn Salter
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0206**

Reported: 25-Apr-24 13:09

Client Sample ID: **RB-0410**

Sampled: 10-Apr-24 10:55

Received: 11-Apr-24

Sampled By: PB

SVL Sample ID: **X4D0206-05 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes

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

EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X416235	NMS	04/23/24 11:57	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X416235	NMS	04/23/24 11:57	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X416235	NMS	04/23/24 11:57	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		04/23/24 11:57	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X416017	NMS	04/16/24 14:22	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X416017	NMS	04/16/24 14:22	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X416017	NMS	04/17/24 12:07	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X416017	NMS	04/16/24 14:22	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X416017	NMS	04/16/24 14:22	
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X416017	NMS	04/16/24 14:22	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X416017	NMS	04/16/24 14:22	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X416017	NMS	04/16/24 14:22	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X416017	NMS	04/16/24 14:22	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X416017	NMS	04/16/24 14:22	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X416017	NMS	04/16/24 14:22	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X416017	NMS	04/16/24 14:22	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X416017	NMS	04/16/24 14:22	
EPA 200.7	Manganese	0.0109	mg/L	0.0080	0.0034		X416017	NMS	04/16/24 14:22	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X416017	NMS	04/16/24 14:22	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X416017	NMS	04/16/24 14:22	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X416017	NMS	04/16/24 14:22	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X416017	NMS	04/16/24 14:22	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X416017	NMS	04/16/24 14:22	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X416017	NMS	04/16/24 14:22	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X416017	NMS	04/16/24 14:22	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X415243	SMU	04/24/24 11:44	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X415243	SMU	04/24/24 11:44	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X415243	SMU	04/24/24 11:44	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X415243	SMU	04/24/24 11:44	
EPA 200.8	Uranium	0.00120	mg/L	0.000100	0.000052		X415243	SMU	04/24/24 11:44	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X416045	MAC	04/22/24 16:46	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X416100	DD	04/17/24 11:31	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X416002	DD	04/16/24 13:02	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X416053	DD	04/17/24 13:37	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X416130	DD	04/19/24 13:37	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X416150	MWD	04/18/24 08:52	
SM 2320 B	Total Alkalinity	3.7	mg/L as CaCO3	1.0			X416068	MWD	04/16/24 14:44	
SM 2320 B	Bicarbonate	3.7	mg/L as CaCO3	1.0			X416068	MWD	04/16/24 14:44	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X416068	MWD	04/16/24 14:44	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X416068	MWD	04/16/24 14:44	
SM 2540 C	Total Diss. Solids	23	mg/L	10			X415170	TJL	04/15/24 14:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X415171	TJL	04/15/24 16:00	
SM 4500 H B	pH @19.4°C	6.5	pH Units				X416068	MWD	04/16/24 14:44	H5

SVL holds the following certifications:

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

Work order Report Page 10 of 17



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0206**

Reported: 25-Apr-24 13:09

Client Sample ID: **RB-0410**SVL Sample ID: **X4D0206-05 (Ground Water)**

Sampled: 10-Apr-24 10:55

Received: 11-Apr-24

Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	0.22	mg/L	0.20	0.02		X415149	RS	04/11/24 13:05	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X415149	RS	04/11/24 13:05	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X415149	RS	04/11/24 13:05	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X415149	RS	04/11/24 13:05	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X415149	RS	04/11/24 13:05	
EPA 300.0	Sulfate as SO4	0.30	mg/L	0.30	0.18		X415149	RS	04/11/24 13:05	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.03 meq/L

Anion Sum: 0.09 meq/L

C/A Balance: -45.39 %

Calculated TDS: 3

TDS/cTDS: 8.39

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

Kathryn Salter
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0206**

Reported: 25-Apr-24 13:09

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	X416235	23-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X416235	23-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X416235	23-Apr-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X416017	16-Apr-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X416017	16-Apr-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X416017	16-Apr-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X416017	16-Apr-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X416017	16-Apr-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X416017	16-Apr-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X416017	16-Apr-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X416017	16-Apr-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X416017	16-Apr-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X416017	16-Apr-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X416017	16-Apr-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X416017	16-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X416017	16-Apr-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X416017	16-Apr-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X416017	16-Apr-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X416017	16-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X416017	16-Apr-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X416017	16-Apr-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X416017	16-Apr-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X416017	16-Apr-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X416017	16-Apr-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X415243	24-Apr-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X415243	24-Apr-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X415243	24-Apr-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X415243	24-Apr-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X415243	24-Apr-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X416045	22-Apr-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X416100	17-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X416002	16-Apr-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X416053	17-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X416130	19-Apr-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X416150	18-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X416068	16-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X416068	16-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X416068	16-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X416068	16-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X415170	15-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X415171	15-Apr-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X415149	11-Apr-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X415149	11-Apr-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X415149	11-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X415149	11-Apr-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X415149	11-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X415149	11-Apr-24	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net
Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0206**

Reported: 25-Apr-24 13:09

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	19.5	20.0	98	85 - 115	X416235	23-Apr-24	
EPA 200.7	Magnesium	mg/L	19.8	20.0	98.9	85 - 115	X416235	23-Apr-24	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.7	85 - 115	X416235	23-Apr-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.950	1.00	95.0	85 - 115	X416017	16-Apr-24	
EPA 200.7	Barium	mg/L	0.980	1.00	98.0	85 - 115	X416017	16-Apr-24	
EPA 200.7	Beryllium	mg/L	0.986	1.00	98.6	85 - 115	X416017	16-Apr-24	
EPA 200.7	Boron	mg/L	0.973	1.00	97.3	85 - 115	X416017	16-Apr-24	
EPA 200.7	Cadmium	mg/L	0.978	1.00	97.8	85 - 115	X416017	16-Apr-24	
EPA 200.7	Calcium	mg/L	19.5	20.0	97.5	85 - 115	X416017	16-Apr-24	
EPA 200.7	Chromium	mg/L	0.980	1.00	98.0	85 - 115	X416017	16-Apr-24	
EPA 200.7	Cobalt	mg/L	0.961	1.00	96.1	85 - 115	X416017	16-Apr-24	
EPA 200.7	Copper	mg/L	0.984	1.00	98.4	85 - 115	X416017	16-Apr-24	
EPA 200.7	Iron	mg/L	9.93	10.0	99.3	85 - 115	X416017	16-Apr-24	
EPA 200.7	Lead	mg/L	0.975	1.00	97.5	85 - 115	X416017	16-Apr-24	
EPA 200.7	Lithium	mg/L	0.960	1.00	96.0	85 - 115	X416017	16-Apr-24	
EPA 200.7	Magnesium	mg/L	19.8	20.0	98.9	85 - 115	X416017	16-Apr-24	
EPA 200.7	Manganese	mg/L	0.987	1.00	98.7	85 - 115	X416017	16-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.996	1.00	99.6	85 - 115	X416017	16-Apr-24	
EPA 200.7	Nickel	mg/L	0.968	1.00	96.8	85 - 115	X416017	16-Apr-24	
EPA 200.7	Potassium	mg/L	19.6	20.0	98.0	85 - 115	X416017	16-Apr-24	
EPA 200.7	Silver	mg/L	0.0496	0.0500	99.2	85 - 115	X416017	16-Apr-24	
EPA 200.7	Sodium	mg/L	18.7	19.0	98.3	85 - 115	X416017	16-Apr-24	
EPA 200.7	Vanadium	mg/L	0.993	1.00	99.3	85 - 115	X416017	16-Apr-24	
EPA 200.7	Zinc	mg/L	0.973	1.00	97.3	85 - 115	X416017	16-Apr-24	
EPA 200.8	Antimony	mg/L	0.0257	0.0250	103	85 - 115	X415243	24-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0230	0.0250	92.1	85 - 115	X415243	24-Apr-24	
EPA 200.8	Selenium	mg/L	0.0215	0.0250	86.2	85 - 115	X415243	24-Apr-24	
EPA 200.8	Thallium	mg/L	0.0241	0.0250	96.3	85 - 115	X415243	24-Apr-24	
EPA 200.8	Uranium	mg/L	0.0249	0.0250	99.4	85 - 115	X415243	24-Apr-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00217	0.00200	108	85 - 115	X416045	22-Apr-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	0.100	98.0	90 - 110	X416100	17-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.0980	0.100	98.0	90 - 110	X416002	16-Apr-24	
EPA 350.1	Ammonia as N	mg/L	0.996	1.00	99.6	90 - 110	X416053	17-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0950	0.100	95.0	90 - 110	X416130	19-Apr-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1650	1640	101	95.4 - 104	X416150	18-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	96.4 - 105	X416068	16-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	96.4 - 105	X416068	16-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X415171	15-Apr-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.97	3.00	98.9	90 - 110	X415149	11-Apr-24	
EPA 300.0	Fluoride	mg/L	1.95	2.00	97.5	90 - 110	X415149	11-Apr-24	
EPA 300.0	Nitrate as N	mg/L	1.98	2.00	99.1	90 - 110	X415149	11-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.46	4.50	99.2	90 - 110	X415149	11-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.48	2.50	99.3	90 - 110	X415149	11-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	10.3	10.0	103	90 - 110	X415149	11-Apr-24	

SVL holds the following certifications:

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

Work order Report Page 13 of 17

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0206**

Reported: 25-Apr-24 13:09

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	<10.0	<10.0	UDL	20	X416150 - X4D0206-01	18-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X416068 - X4D0206-02	16-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X416068 - X4D0206-02	16-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X416068 - X4D0206-02	16-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X416068 - X4D0206-02	16-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	294	299	1.7	10	X415170 - X4D0206-01	15-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	363	368	1.4	10	X415170 - X4D0201-01	15-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	24.0	25.0	4.1	10	X415171 - X4D0206-01	15-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X415171 - X4D0201-01	15-Apr-24	
SM 4500 H B	pH @19.2°C	pH Units	2.9	2.9	0.3	20	X416068 - X4D0206-02	16-Apr-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	75.7	56.3	20.0	97	70 - 130	X416235 - X4D0201-01	23-Apr-24	
EPA 200.7	Calcium	mg/L	29.9	11.1	20.0	94	70 - 130	X416235 - X4D0245-04	23-Apr-24	
EPA 200.7	Magnesium	mg/L	42.1	21.2	20.0	104	70 - 130	X416235 - X4D0201-01	23-Apr-24	
EPA 200.7	Magnesium	mg/L	19.9	0.696	20.0	96.2	70 - 130	X416235 - X4D0245-04	23-Apr-24	
EPA 200.7	Potassium	mg/L	30.7	11.2	20.0	97.7	70 - 130	X416235 - X4D0201-01	23-Apr-24	
EPA 200.7	Potassium	mg/L	19.4	<0.50	20.0	96.9	70 - 130	X416235 - X4D0245-04	23-Apr-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	10.6	9.54	1.00	104	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Aluminum	mg/L	0.947	<0.080	1.00	94.7	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Barium	mg/L	1.03	0.0447	1.00	99.0	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Barium	mg/L	0.957	<0.0020	1.00	95.7	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Beryllium	mg/L	0.946	0.00582	1.00	94.0	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Beryllium	mg/L	0.970	<0.00200	1.00	97.0	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Boron	mg/L	0.991	<0.0400	1.00	97.3	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Boron	mg/L	0.968	<0.0400	1.00	96.8	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Cadmium	mg/L	1.02	0.0783	1.00	94.5	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Cadmium	mg/L	0.975	<0.0020	1.00	97.5	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Calcium	mg/L	276	255	20.0	107	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Calcium	mg/L	19.2	<0.100	20.0	95.9	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Chromium	mg/L	0.955	<0.0060	1.00	95.5	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Chromium	mg/L	0.965	<0.0060	1.00	96.5	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Cobalt	mg/L	1.14	0.196	1.00	94.6	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Cobalt	mg/L	0.954	<0.0060	1.00	95.4	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Copper	mg/L	11.1	10.4	1.00	0.30R>S	70 - 130	X416017 - X4D0164-01	16-Apr-24	M3
EPA 200.7	Copper	mg/L	0.934	<0.0100	1.00	93.4	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Iron	mg/L	9.87	<0.100	10.0	98.7	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Iron	mg/L	9.83	<0.100	10.0	98.3	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Lead	mg/L	0.999	0.0510	1.00	94.8	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Lead	mg/L	0.975	<0.0075	1.00	97.5	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Lithium	mg/L	0.972	<0.040	1.00	94.5	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Lithium	mg/L	0.944	<0.040	1.00	94.4	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Magnesium	mg/L	136	114	20.0	109	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Magnesium	mg/L	19.7	<0.500	20.0	98.4	70 - 130	X416017 - X4D0212-05	16-Apr-24	

SVL holds the following certifications:

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

Work order Report Page 14 of 17

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0206**

Reported: 25-Apr-24 13:09

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	15.6	14.8	1.00	79.5	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Manganese	mg/L	0.965	<0.0080	1.00	96.5	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.979	<0.0080	1.00	97.9	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.973	<0.0080	1.00	97.3	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Nickel	mg/L	1.11	0.150	1.00	95.6	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Nickel	mg/L	0.962	<0.0100	1.00	96.2	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Potassium	mg/L	23.5	3.58	20.0	99.7	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Potassium	mg/L	19.3	<0.50	20.0	96.7	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Silver	mg/L	0.0484	<0.0050	0.0500	96.7	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Silver	mg/L	0.0481	<0.0050	0.0500	96.3	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Sodium	mg/L	40.5	21.8	19.0	98.4	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Sodium	mg/L	18.5	<0.50	19.0	96.3	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Vanadium	mg/L	0.988	<0.0050	1.00	98.8	70 - 130	X416017 - X4D0164-01	16-Apr-24	
EPA 200.7	Vanadium	mg/L	0.978	<0.0050	1.00	97.8	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.7	Zinc	mg/L	17.8	17.8	1.00	0.30R>S	70 - 130	X416017 - X4D0164-01	16-Apr-24	M3
EPA 200.7	Zinc	mg/L	0.983	<0.0100	1.00	98.3	70 - 130	X416017 - X4D0212-05	16-Apr-24	
EPA 200.8	Antimony	mg/L	0.0280	<0.00100	0.0250	112	70 - 130	X415243 - X4D0206-01	24-Apr-24	
EPA 200.8	Antimony	mg/L	0.0297	<0.00100	0.0250	119	70 - 130	X415243 - X4D0217-01	24-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0388	<0.00100	0.0250	154	70 - 130	X415243 - X4D0206-01	24-Apr-24	M1
EPA 200.8	Arsenic	mg/L	0.0363	0.00525	0.0250	124	70 - 130	X415243 - X4D0217-01	24-Apr-24	
EPA 200.8	Selenium	mg/L	0.0556	<0.00100	0.0250	222	70 - 130	X415243 - X4D0206-01	24-Apr-24	M1
EPA 200.8	Selenium	mg/L	0.0290	<0.00100	0.0250	112	70 - 130	X415243 - X4D0217-01	24-Apr-24	
EPA 200.8	Thallium	mg/L	0.0304	<0.000200	0.0250	121	70 - 130	X415243 - X4D0217-01	24-Apr-24	
EPA 200.8	Thallium	mg/L	0.0263	<0.00100	0.0250	105	70 - 130	X415243 - X4D0206-01	24-Apr-24	D1
EPA 200.8	Uranium	mg/L	0.0353	0.00343	0.0250	128	70 - 130	X415243 - X4D0217-01	24-Apr-24	
EPA 200.8	Uranium	mg/L	1.37	<0.000500	0.0250	5476	70 - 130	X415243 - X4D0206-01	24-Apr-24	D1,M4
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00209	<0.000200	0.00200	104	70 - 130	X416045 - X4D0206-01	22-Apr-24	
EPA 245.1	Mercury	mg/L	0.0423	0.0386	0.00200	0.30R>S	70 - 130	X416045 - X4D0254-01	22-Apr-24	D2,M4
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.107	<0.0050	0.100	107	79 - 121	X416100 - X4D0253-06	17-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.0911	<0.0050	0.100	91.1	90 - 110	X416002 - X4D0158-01	16-Apr-24	R2B
EPA 350.1	Ammonia as N	mg/L	1.08	<0.030	1.00	108	90 - 110	X416053 - X4D0206-02	17-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.04	<0.030	1.00	104	90 - 110	X416053 - X4D0206-04	17-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.115	<0.0050	0.100	114	82 - 118	X416130 - X4D0206-01	19-Apr-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	18.7	15.9	3.00	90.3	90 - 110	X415149 - X4D0199-01	11-Apr-24	D2
EPA 300.0	Chloride	mg/L	3.17	0.22	3.00	98.4	90 - 110	X415149 - X4D0206-05	11-Apr-24	
EPA 300.0	Fluoride	mg/L	1.97	<0.100	2.00	97.1	90 - 110	X415149 - X4D0199-01	11-Apr-24	
EPA 300.0	Fluoride	mg/L	1.99	<0.100	2.00	97.6	90 - 110	X415149 - X4D0206-05	11-Apr-24	
EPA 300.0	Nitrate as N	mg/L	2.13	0.169	2.00	98.0	90 - 110	X415149 - X4D0199-01	11-Apr-24	
EPA 300.0	Nitrate as N	mg/L	1.96	<0.050	2.00	98.1	90 - 110	X415149 - X4D0206-05	11-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.14	0.173	4.00	99.1	90 - 110	X415149 - X4D0199-01	11-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.99	<0.100	4.00	99.6	90 - 110	X415149 - X4D0206-05	11-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.01	<0.050	2.00	100	90 - 110	X415149 - X4D0199-01	11-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X415149 - X4D0206-05	11-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	25.0	15.0	10.0	99.9	90 - 110	X415149 - X4D0199-01	11-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	10.5	0.30	10.0	102	90 - 110	X415149 - X4D0206-05	11-Apr-24	

SVL holds the following certifications:

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

Work order Report Page 15 of 17

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0206**

Reported: 25-Apr-24 13:09

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	74.6	75.7	20.0	1.0	20	92	X416235 - X4D0201-01	
EPA 200.7	Magnesium	mg/L	41.3	42.1	20.0	1.9	20	100	X416235 - X4D0201-01	
EPA 200.7	Potassium	mg/L	30.3	30.7	20.0	1.4	20	95.5	X416235 - X4D0201-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	10.7	10.6	1.00	1.1	20	116	X416017 - X4D0164-01	
EPA 200.7	Barium	mg/L	1.02	1.03	1.00	1.4	20	97.5	X416017 - X4D0164-01	
EPA 200.7	Beryllium	mg/L	0.952	0.946	1.00	0.6	20	94.6	X416017 - X4D0164-01	
EPA 200.7	Boron	mg/L	1.01	0.991	1.00	1.9	20	99.2	X416017 - X4D0164-01	
EPA 200.7	Cadmium	mg/L	1.02	1.02	1.00	0.3	20	94.2	X416017 - X4D0164-01	
EPA 200.7	Calcium	mg/L	275	276	20.0	0.3	20	103	X416017 - X4D0164-01	
EPA 200.7	Chromium	mg/L	0.950	0.955	1.00	0.6	20	95.0	X416017 - X4D0164-01	
EPA 200.7	Cobalt	mg/L	1.14	1.14	1.00	0.3	20	94.3	X416017 - X4D0164-01	
EPA 200.7	Copper	mg/L	11.2	11.1	1.00	0.7	20	73.6	X416017 - X4D0164-01	
EPA 200.7	Iron	mg/L	9.86	9.87	10.0	0.1	20	98.6	X416017 - X4D0164-01	
EPA 200.7	Lead	mg/L	1.00	0.999	1.00	0.1	20	94.9	X416017 - X4D0164-01	
EPA 200.7	Lithium	mg/L	0.997	0.972	1.00	2.5	20	97.0	X416017 - X4D0164-01	
EPA 200.7	Magnesium	mg/L	133	136	20.0	1.8	20	97.3	X416017 - X4D0164-01	
EPA 200.7	Manganese	mg/L	15.8	15.6	1.00	0.9	20	94.0	X416017 - X4D0164-01	
EPA 200.7	Molybdenum	mg/L	0.976	0.979	1.00	0.3	20	97.6	X416017 - X4D0164-01	
EPA 200.7	Nickel	mg/L	1.11	1.11	1.00	0.0	20	95.5	X416017 - X4D0164-01	
EPA 200.7	Potassium	mg/L	23.5	23.5	20.0	0.1	20	99.7	X416017 - X4D0164-01	
EPA 200.7	Silver	mg/L	0.0500	0.0484	0.0500	3.4	20	100	X416017 - X4D0164-01	
EPA 200.7	Sodium	mg/L	40.4	40.5	19.0	0.1	20	98.1	X416017 - X4D0164-01	
EPA 200.7	Vanadium	mg/L	0.983	0.988	1.00	0.5	20	98.3	X416017 - X4D0164-01	
EPA 200.7	Zinc	mg/L	17.9	17.8	1.00	1.0	20	0.30R>S	X416017 - X4D0164-01	M3
EPA 200.8	Antimony	mg/L	0.0285	0.0280	0.0250	1.7	20	114	X415243 - X4D0206-01	
EPA 200.8	Arsenic	mg/L	0.0386	0.0388	0.0250	0.5	20	153	X415243 - X4D0206-01	M1
EPA 200.8	Selenium	mg/L	0.0560	0.0556	0.0250	0.7	20	224	X415243 - X4D0206-01	M1

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00211	0.00209	0.00200	1.0	20	105	X416045 - X4D0206-01	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.109	0.107	0.100	1.9	11	109	X416100 - X4D0253-06	
EPA 335.4	Cyanide (total)	mg/L	0.0477	0.0911	0.100	62.5	20	47.7	X416002 - X4D0158-01	M2,R2B
EPA 350.1	Ammonia as N	mg/L	1.14	1.08	1.00	5.2	20	114	X416053 - X4D0206-02	M1
OIA 1677	Cyanide (WAD)	mg/L	0.120	0.115	0.100	4.3	11	119	X416130 - X4D0206-01	M1

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	18.7	18.7	3.00	0.5	20	93.4	X415149 - X4D0199-01	D2
EPA 300.0	Fluoride	mg/L	2.04	1.97	2.00	3.2	20	100	X415149 - X4D0199-01	
EPA 300.0	Nitrate as N	mg/L	2.19	2.13	2.00	2.8	20	101	X415149 - X4D0199-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.27	4.14	4.00	3.1	20	102	X415149 - X4D0199-01	
EPA 300.0	Nitrite as N	mg/L	2.08	2.01	2.00	3.4	20	104	X415149 - X4D0199-01	
EPA 300.0	Sulfate as SO4	mg/L	25.2	25.0	10.0	1.1	20	103	X415149 - X4D0199-01	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0206**

Reported: 25-Apr-24 13:09

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
E11	Sample exceeds method-specified limit for solids content.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q12	Sample was received and analyzed with pH <12.
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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0360**

Reported: 07-May-24 12:55

Client Sample ID: **CCVB-0418**

Sampled: 18-Apr-24 12:40

Received: 19-Apr-24

Sampled By: PB

SVL Sample ID: **X4D0360-01 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X418040	NMS	04/30/24 15:40	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X418040	NMS	04/30/24 15:40	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X418040	NMS	04/30/24 15:40	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		04/30/24 15:40	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X417050	NMS	04/30/24 12:39	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X417050	NMS	04/30/24 12:39	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X417050	NMS	04/30/24 12:39	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X417050	NMS	04/30/24 12:39	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X417050	NMS	04/30/24 12:39	
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X417050	NMS	04/30/24 12:39	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X417050	NMS	04/30/24 12:39	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X417050	NMS	04/30/24 12:39	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X417050	NMS	04/30/24 12:39	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X417050	NMS	04/30/24 12:39	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X417050	NMS	04/30/24 12:39	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X417050	NMS	04/30/24 12:39	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X417050	NMS	04/30/24 12:39	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X417050	NMS	04/30/24 12:39	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X417050	NMS	04/30/24 12:39	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X417050	NMS	04/30/24 12:39	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X417050	NMS	04/30/24 12:39	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X417050	NMS	04/30/24 12:39	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X417050	NMS	04/30/24 14:41	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X417050	NMS	04/30/24 12:39	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X417050	NMS	04/30/24 12:39	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X416276	SMU	05/02/24 10:25	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X416276	SMU	05/02/24 10:25	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X416276	SMU	05/02/24 10:25	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X416276	SMU	05/02/24 10:25	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X416276	SMU	05/02/24 10:25	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X418073	MAC	04/30/24 13:23	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X418027	DD	04/29/24 13:29	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X417023	DD	04/23/24 13:48	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X417126	DD	04/25/24 11:15	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X418218	DD	05/02/24 10:12	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X417220	MWD	04/26/24 09:44	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X417119	MWD	04/24/24 10:43	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X417119	MWD	04/24/24 10:43	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X417119	MWD	04/24/24 10:43	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X417119	MWD	04/24/24 10:43	
SM 2540 C	Total Diss. Solids	< 10	mg/L	10			X417061	TJL	04/25/24 14:00	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X417062	TJL	04/25/24 15:00	
SM 4500 H B	pH @16.2°C	5.5	pH Units				X417119	MWD	04/24/24 10:43	H5

SVL holds the following certifications:

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

Work



One Government Gulch - PO Box 929
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(208) 784-1258
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Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4D0360 Reported: 07-May-24 12:55

Client Sample ID: **CCVB-0418**
SVL Sample ID: **X4D0360-01 (Ground Water)**

Sampled: 18-Apr-24 12:40
Received: 19-Apr-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	< 0.20	mg/L	0.20	0.02		X416246	KAG	04/19/24 18:24	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X416246	KAG	04/19/24 18:24	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X416246	KAG	04/19/24 18:24	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X416246	KAG	04/19/24 18:24	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X416246	KAG	04/19/24 18:24	
EPA 300.0	Sulfate as SO4	< 0.30	mg/L	0.30	0.18		X416246	KAG	04/19/24 18:24	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.03 meq/L	Anion Sum: 0.03 meq/L	C/A Balance: 8.33 %	Calculated TDS: 0

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



Kathryn Salter
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0360**

Reported: 07-May-24 12:55

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	X418040	30-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X418040	30-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X418040	30-Apr-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X417050	30-Apr-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X417050	30-Apr-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X417050	30-Apr-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X417050	30-Apr-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X417050	30-Apr-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X417050	30-Apr-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X417050	30-Apr-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X417050	30-Apr-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X417050	30-Apr-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X417050	30-Apr-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X417050	30-Apr-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X417050	30-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X417050	30-Apr-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X417050	30-Apr-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X417050	30-Apr-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X417050	30-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X417050	30-Apr-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X417050	30-Apr-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X417050	30-Apr-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X417050	30-Apr-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X417050	30-Apr-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X416276	02-May-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X416276	02-May-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X416276	02-May-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X416276	02-May-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X416276	02-May-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X418073	30-Apr-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X418027	29-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X417022	23-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X417023	23-Apr-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X417126	25-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X418218	02-May-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X417220	26-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X417119	24-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X417119	24-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X417119	24-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X417119	24-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X417061	25-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X417062	25-Apr-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X416246	19-Apr-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X416246	19-Apr-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X416246	19-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X416246	19-Apr-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X416246	19-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X416246	19-Apr-24	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0360**

Reported: 07-May-24 12:55

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	20.1	20.0	100	85 - 115	X418040	30-Apr-24	
EPA 200.7	Magnesium	mg/L	20.4	20.0	102	85 - 115	X418040	30-Apr-24	
EPA 200.7	Potassium	mg/L	20.8	20.0	104	85 - 115	X418040	30-Apr-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.976	1.00	97.6	85 - 115	X417050	30-Apr-24	
EPA 200.7	Barium	mg/L	1.00	1.00	100	85 - 115	X417050	30-Apr-24	
EPA 200.7	Beryllium	mg/L	0.983	1.00	98.3	85 - 115	X417050	30-Apr-24	
EPA 200.7	Boron	mg/L	0.990	1.00	99.0	85 - 115	X417050	30-Apr-24	
EPA 200.7	Cadmium	mg/L	0.969	1.00	96.9	85 - 115	X417050	30-Apr-24	
EPA 200.7	Calcium	mg/L	19.3	20.0	96.4	85 - 115	X417050	30-Apr-24	
EPA 200.7	Chromium	mg/L	0.984	1.00	98.4	85 - 115	X417050	30-Apr-24	
EPA 200.7	Cobalt	mg/L	0.951	1.00	95.1	85 - 115	X417050	30-Apr-24	
EPA 200.7	Copper	mg/L	0.980	1.00	98.0	85 - 115	X417050	30-Apr-24	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X417050	30-Apr-24	
EPA 200.7	Lead	mg/L	0.960	1.00	96.0	85 - 115	X417050	30-Apr-24	
EPA 200.7	Lithium	mg/L	0.954	1.00	95.4	85 - 115	X417050	30-Apr-24	
EPA 200.7	Magnesium	mg/L	19.4	20.0	96.9	85 - 115	X417050	30-Apr-24	
EPA 200.7	Manganese	mg/L	0.978	1.00	97.8	85 - 115	X417050	30-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.984	1.00	98.4	85 - 115	X417050	30-Apr-24	
EPA 200.7	Nickel	mg/L	0.946	1.00	94.6	85 - 115	X417050	30-Apr-24	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.4	85 - 115	X417050	30-Apr-24	
EPA 200.7	Silver	mg/L	0.0503	0.0500	101	85 - 115	X417050	30-Apr-24	
EPA 200.7	Sodium	mg/L	18.4	19.0	96.9	85 - 115	X417050	30-Apr-24	
EPA 200.7	Vanadium	mg/L	0.985	1.00	98.5	85 - 115	X417050	30-Apr-24	
EPA 200.7	Zinc	mg/L	0.966	1.00	96.6	85 - 115	X417050	30-Apr-24	
EPA 200.8	Antimony	mg/L	0.0240	0.0250	96.0	85 - 115	X416276	02-May-24	
EPA 200.8	Arsenic	mg/L	0.0239	0.0250	95.7	85 - 115	X416276	02-May-24	
EPA 200.8	Selenium	mg/L	0.0245	0.0250	98.0	85 - 115	X416276	02-May-24	
EPA 200.8	Thallium	mg/L	0.0244	0.0250	97.5	85 - 115	X416276	02-May-24	
EPA 200.8	Uranium	mg/L	0.0238	0.0250	95.2	85 - 115	X416276	02-May-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00199	0.00200	99.6	85 - 115	X418073	30-Apr-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.102	0.100	102	90 - 110	X418027	29-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.100	104	90 - 110	X417023	23-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.100	102	90 - 110	X417022	23-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.01	1.00	101	90 - 110	X417126	25-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X418218	02-May-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	893	884	101	95.4 - 104	X417220	26-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.2	9.93	103	96.4 - 105	X417119	24-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	96.4 - 105	X417119	24-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X417062	25-Apr-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.02	3.00	101	90 - 110	X416246	19-Apr-24	
EPA 300.0	Fluoride	mg/L	1.94	2.00	97.1	90 - 110	X416246	19-Apr-24	
EPA 300.0	Nitrate as N	mg/L	2.00	2.00	100	90 - 110	X416246	19-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.48	4.50	99.6	90 - 110	X416246	19-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.48	2.50	99.2	90 - 110	X416246	19-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X416246	19-Apr-24	

SVL holds the following certifications:

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

Work

Page 9 of 13

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0360**

Reported: 07-May-24 12:55

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 CaCO ₃	<10.0	<10.0	UDL	20	X417220 - X4D0331-01	26-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0	<1.0	<RL	20	X417119 - X4D0360-01	24-Apr-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0	<1.0	<RL	20	X417119 - X4D0360-01	24-Apr-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X417119 - X4D0360-01	24-Apr-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X417119 - X4D0360-01	24-Apr-24	
SM 2540 C	Total Diss. Solids	mg/L	248	239	3.7	10	X417061 - X4D0360-02	25-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X417062 - X4D0360-02	25-Apr-24	
SM 4500 H B	pH @16.4°C	pH Units	5.4	5.5	0.4	20	X417119 - X4D0360-01	24-Apr-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	91.6	71.9	20.0	99	70 - 130	X418040 - X4D0334-14	30-Apr-24	
EPA 200.7	Calcium	mg/L	85.1	63.3	20.0	109	70 - 130	X418040 - X4D0417-01	30-Apr-24	
EPA 200.7	Magnesium	mg/L	24.2	3.59	20.0	103	70 - 130	X418040 - X4D0334-14	30-Apr-24	
EPA 200.7	Magnesium	mg/L	28.0	6.41	20.0	108	70 - 130	X418040 - X4D0417-01	30-Apr-24	
EPA 200.7	Potassium	mg/L	25.5	4.64	20.0	104	70 - 130	X418040 - X4D0334-14	30-Apr-24	
EPA 200.7	Potassium	mg/L	38.1	16.0	20.0	110	70 - 130	X418040 - X4D0417-01	30-Apr-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.942	<0.080	1.00	94.2	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Aluminum	mg/L	1.19	0.220	1.00	97.1	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Barium	mg/L	0.996	0.0187	1.00	97.7	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Barium	mg/L	0.963	0.0047	1.00	95.9	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Beryllium	mg/L	0.967	<0.00200	1.00	96.7	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Beryllium	mg/L	1.03	<0.00200	1.00	103	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	99.5	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Boron	mg/L	1.06	<0.0400	1.00	103	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Cadmium	mg/L	0.927	<0.0020	1.00	92.7	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Cadmium	mg/L	0.969	<0.0020	1.00	96.9	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Calcium	mg/L	62.9	45.1	20.0	89.0	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Calcium	mg/L	75.7	57.1	20.0	93.0	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Chromium	mg/L	0.955	<0.0060	1.00	95.5	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Chromium	mg/L	0.986	<0.0060	1.00	98.6	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Cobalt	mg/L	0.907	<0.0060	1.00	90.7	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Cobalt	mg/L	0.933	<0.0060	1.00	93.3	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Copper	mg/L	0.950	<0.0100	1.00	95.0	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Copper	mg/L	0.962	<0.0100	1.00	95.5	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Iron	mg/L	9.97	<0.100	10.0	99.7	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Iron	mg/L	10.3	<0.100	10.0	103	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Lead	mg/L	0.911	<0.0075	1.00	91.1	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Lead	mg/L	0.956	<0.0075	1.00	95.6	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Lithium	mg/L	0.930	<0.040	1.00	93.0	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Lithium	mg/L	0.971	<0.040	1.00	97.1	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Magnesium	mg/L	22.7	3.93	20.0	93.7	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Magnesium	mg/L	24.0	4.69	20.0	96.5	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Manganese	mg/L	0.949	0.0080	1.00	94.1	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Manganese	mg/L	1.00	0.0203	1.00	97.9	70 - 130	X417050 - X4D0363-06	30-Apr-24	

SVL holds the following certifications:

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

Work Page 10 of 13


Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4D0360**

Reported: 07-May-24 12:55

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	Molybdenum	mg/L	0.955	0.0231	1.00	93.2	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.980	<0.0080	1.00	97.2	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Nickel	mg/L	0.906	<0.0100	1.00	89.8	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Nickel	mg/L	0.939	<0.0100	1.00	93.0	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Potassium	mg/L	22.1	2.68	20.0	96.9	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Potassium	mg/L	22.7	2.88	20.0	99.1	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Silver	mg/L	0.0486	<0.0050	0.0500	97.2	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Silver	mg/L	0.0500	<0.0050	0.0500	99.9	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Sodium	mg/L	55.3	38.3	19.0	89.7	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Sodium	mg/L	38.9	20.5	19.0	97.1	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Vanadium	mg/L	0.965	<0.0050	1.00	96.5	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Vanadium	mg/L	0.993	<0.0050	1.00	99.3	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.7	Zinc	mg/L	0.931	<0.0100	1.00	93.1	70 - 130	X417050 - X4D0310-01	30-Apr-24	
EPA 200.7	Zinc	mg/L	1.03	0.0668	1.00	96.7	70 - 130	X417050 - X4D0363-06	30-Apr-24	
EPA 200.8	Antimony	mg/L	0.0331	0.00914	0.0250	96.0	70 - 130	X416276 - X4D0347-01	02-May-24	
EPA 200.8	Antimony	mg/L	0.0256	<0.0100	0.0250	103	70 - 130	X416276 - X4D0360-03	02-May-24	D1
EPA 200.8	Arsenic	mg/L	0.0514	0.0254	0.0250	104	70 - 130	X416276 - X4D0347-01	02-May-24	
EPA 200.8	Arsenic	mg/L	0.0246	<0.0100	0.0250	98.4	70 - 130	X416276 - X4D0360-03	02-May-24	D1
EPA 200.8	Selenium	mg/L	0.0247	<0.00100	0.0250	99.0	70 - 130	X416276 - X4D0347-01	02-May-24	
EPA 200.8	Selenium	mg/L	0.0320	0.0104	0.0250	86.4	70 - 130	X416276 - X4D0360-03	02-May-24	D1
EPA 200.8	Thallium	mg/L	0.0237	<0.000200	0.0250	94.9	70 - 130	X416276 - X4D0347-01	02-May-24	
EPA 200.8	Thallium	mg/L	0.0251	<0.000200	0.0250	101	70 - 130	X416276 - X4D0360-03	02-May-24	D1
EPA 200.8	Uranium	mg/L	0.0240	0.000578	0.0250	93.6	70 - 130	X416276 - X4D0347-01	02-May-24	
EPA 200.8	Uranium	mg/L	0.0602	0.0355	0.0250	98.8	70 - 130	X416276 - X4D0360-03	02-May-24	D1
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00220	<0.000200	0.00200	102	70 - 130	X418073 - X4D0336-01	30-Apr-24	
EPA 245.1	Mercury	mg/L	0.00201	<0.000200	0.00200	100	70 - 130	X418073 - X4D0360-02	30-Apr-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	<0.0050	0.100	97.0	79 - 121	X418027 - X4D0346-13	29-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.109	<0.0050	0.100	109	90 - 110	X417023 - X4D0348-01	23-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.106	<0.0050	0.100	106	90 - 110	X417022 - X4D0346-13	23-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.105	<0.0050	0.100	105	90 - 110	X417022 - X4D0346-12	23-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	99.4	90 - 110	X417126 - X4D0360-01	25-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.07	<0.030	1.00	107	90 - 110	X417126 - X4D0360-02	25-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.107	<0.0050	0.100	107	82 - 118	X418218 - X4D0086-05	02-May-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	12.5	9.70	3.00	92.9	90 - 110	X416246 - X4D0358-10	23-Apr-24	D2
EPA 300.0	Chloride	mg/L	17.6	14.5	3.00	104	90 - 110	X416246 - X4D0358-15	23-Apr-24	D2
EPA 300.0	Fluoride	mg/L	1.94	<0.100	2.00	93.1	90 - 110	X416246 - X4D0358-10	19-Apr-24	
EPA 300.0	Fluoride	mg/L	1.92	<0.100	2.00	92.8	90 - 110	X416246 - X4D0358-15	19-Apr-24	
EPA 300.0	Nitrate as N	mg/L	2.06	0.116	2.00	97.0	90 - 110	X416246 - X4D0358-10	19-Apr-24	
EPA 300.0	Nitrate as N	mg/L	3.74	1.72	2.00	101	90 - 110	X416246 - X4D0358-15	19-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.04	0.121	4.00	97.9	90 - 110	X416246 - X4D0358-10	19-Apr-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.75	1.72	4.00	101	90 - 110	X416246 - X4D0358-15	19-Apr-24	
EPA 300.0	Nitrite as N	mg/L	1.98	<0.050	2.00	99.0	90 - 110	X416246 - X4D0358-10	19-Apr-24	
EPA 300.0	Nitrite as N	mg/L	2.01	<0.050	2.00	100	90 - 110	X416246 - X4D0358-15	19-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	20.4	10.1	10.0	103	90 - 110	X416246 - X4D0358-10	19-Apr-24	
EPA 300.0	Sulfate as SO4	mg/L	21.9	11.7	10.0	103	90 - 110	X416246 - X4D0358-15	19-Apr-24	

SVL holds the following certifications:

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

Work

Page 11 of 13

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0360**

Reported: 07-May-24 12:55

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	92.3	91.6	20.0	0.7	20	102	X418040 - X4D0334-14	
EPA 200.7	Magnesium	mg/L	24.3	24.2	20.0	0.2	20	103	X418040 - X4D0334-14	
EPA 200.7	Potassium	mg/L	25.8	25.5	20.0	0.8	20	106	X418040 - X4D0334-14	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.975	0.942	1.00	3.4	20	97.5	X417050 - X4D0310-01	
EPA 200.7	Barium	mg/L	1.01	0.996	1.00	1.3	20	99.0	X417050 - X4D0310-01	
EPA 200.7	Beryllium	mg/L	0.984	0.967	1.00	1.8	20	98.4	X417050 - X4D0310-01	
EPA 200.7	Boron	mg/L	1.05	1.03	1.00	2.0	20	102	X417050 - X4D0310-01	
EPA 200.7	Cadmium	mg/L	0.955	0.927	1.00	3.0	20	95.5	X417050 - X4D0310-01	
EPA 200.7	Calcium	mg/L	64.0	62.9	20.0	1.7	20	94.5	X417050 - X4D0310-01	
EPA 200.7	Chromium	mg/L	0.985	0.955	1.00	3.1	20	98.5	X417050 - X4D0310-01	
EPA 200.7	Cobalt	mg/L	0.933	0.907	1.00	2.8	20	93.3	X417050 - X4D0310-01	
EPA 200.7	Copper	mg/L	0.984	0.950	1.00	3.6	20	98.4	X417050 - X4D0310-01	
EPA 200.7	Iron	mg/L	10.2	9.97	10.0	2.2	20	102	X417050 - X4D0310-01	
EPA 200.7	Lead	mg/L	0.934	0.911	1.00	2.5	20	93.4	X417050 - X4D0310-01	
EPA 200.7	Lithium	mg/L	0.949	0.930	1.00	2.1	20	94.9	X417050 - X4D0310-01	
EPA 200.7	Magnesium	mg/L	23.1	22.7	20.0	2.0	20	95.9	X417050 - X4D0310-01	
EPA 200.7	Manganese	mg/L	0.968	0.949	1.00	2.0	20	96.0	X417050 - X4D0310-01	
EPA 200.7	Molybdenum	mg/L	0.983	0.955	1.00	2.8	20	95.9	X417050 - X4D0310-01	
EPA 200.7	Nickel	mg/L	0.934	0.906	1.00	3.1	20	92.7	X417050 - X4D0310-01	
EPA 200.7	Potassium	mg/L	22.4	22.1	20.0	1.5	20	98.6	X417050 - X4D0310-01	
EPA 200.7	Silver	mg/L	0.0502	0.0486	0.0500	3.3	20	100	X417050 - X4D0310-01	
EPA 200.7	Sodium	mg/L	56.1	55.3	19.0	1.5	20	94.0	X417050 - X4D0310-01	
EPA 200.7	Vanadium	mg/L	0.991	0.965	1.00	2.7	20	99.1	X417050 - X4D0310-01	
EPA 200.7	Zinc	mg/L	0.957	0.931	1.00	2.8	20	95.7	X417050 - X4D0310-01	
EPA 200.8	Antimony	mg/L	0.0334	0.0331	0.0250	0.7	20	97.0	X416276 - X4D0347-01	
EPA 200.8	Arsenic	mg/L	0.0519	0.0514	0.0250	1.0	20	106	X416276 - X4D0347-01	
EPA 200.8	Selenium	mg/L	0.0253	0.0247	0.0250	2.1	20	101	X416276 - X4D0347-01	
EPA 200.8	Thallium	mg/L	0.0240	0.0237	0.0250	1.4	20	96.2	X416276 - X4D0347-01	
EPA 200.8	Uranium	mg/L	0.0240	0.0240	0.0250	0.1	20	93.7	X416276 - X4D0347-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00217	0.00220	0.00200	1.1	20	101	X418073 - X4D0336-01	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.105	0.0970	0.100	7.9	11	105	X418027 - X4D0346-13	
EPA 335.4	Cyanide (total)	mg/L	0.106	0.106	0.100	0.4	20	106	X417022 - X4D0346-13	
EPA 335.4	Cyanide (total)	mg/L	0.110	0.109	0.100	0.2	20	110	X417023 - X4D0348-01	
EPA 350.1	Ammonia as N	mg/L	1.07	1.01	1.00	5.5	20	105	X417126 - X4D0360-01	
OIA 1677	Cyanide (WAD)	mg/L	0.109	0.107	0.100	1.9	11	109	X418218 - X4D0086-05	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	12.4	12.5	3.00	0.9	20	89.2	X416246 - X4D0358-10	D2,M4
EPA 300.0	Fluoride	mg/L	1.96	1.94	2.00	1.2	20	94.2	X416246 - X4D0358-10	
EPA 300.0	Nitrate as N	mg/L	2.10	2.06	2.00	2.3	20	99.4	X416246 - X4D0358-10	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.14	4.04	4.00	2.6	20	101	X416246 - X4D0358-10	
EPA 300.0	Nitrite as N	mg/L	2.04	1.98	2.00	2.9	20	102	X416246 - X4D0358-10	
EPA 300.0	Sulfate as SO4	mg/L	20.5	20.4	10.0	0.5	20	104	X416246 - X4D0358-10	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4D0360**

Reported: 07-May-24 12:55

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
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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Kellogg, ID 83837-0929

(208) 784-1258

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0125**

Reported: 31-May-24 15:41

Client Sample ID: **GVMW-125**

Sampled: 07-May-24 09:14

Received: 08-May-24

Sampled By: PB

SVL Sample ID: **X4E0125-02 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes

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

EPA 200.7	Calcium	466	mg/L	1.00	0.690	10	X420003	NMS	05/14/24 18:54	D2
EPA 200.7	Magnesium	191	mg/L	0.500	0.090		X420003	NMS	05/14/24 17:16	
EPA 200.7	Potassium	5.52	mg/L	0.50	0.18		X420003	NMS	05/14/24 17:16	
SM 2340 B	Hardness (as CaCO3)	1970	mg/L	2.31	0.543		N/A		05/21/24 09:58	

Metals (Dissolved)

EPA 200.7	Aluminum	213	mg/L	0.080	0.054		X419175	NMS	05/21/24 09:58	
EPA 200.7	Barium	0.0097	mg/L	0.0020	0.0019		X419175	NMS	05/21/24 09:58	
EPA 200.7	Beryllium	0.222	mg/L	0.00200	0.00080		X419175	NMS	05/21/24 09:58	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X419175	NMS	05/21/24 09:58	
EPA 200.7	Cadmium	0.520	mg/L	0.0020	0.0016		X419175	NMS	05/21/24 09:58	
EPA 200.7	Calcium	475	mg/L	0.100	0.069		X419175	NMS	05/21/24 09:58	
EPA 200.7	Chromium	0.0163	mg/L	0.0060	0.0020		X419175	NMS	05/21/24 09:58	
EPA 200.7	Cobalt	0.491	mg/L	0.0060	0.0046		X419175	NMS	05/21/24 09:58	
EPA 200.7	Copper	0.719	mg/L	0.0100	0.0027		X419175	NMS	05/21/24 09:58	
EPA 200.7	Iron	0.378	mg/L	0.100	0.056		X419175	NMS	05/21/24 09:58	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X419175	NMS	05/21/24 09:58	
EPA 200.7	Lithium	0.097	mg/L	0.040	0.025		X419175	NMS	05/21/24 09:58	
EPA 200.7	Magnesium	181	mg/L	0.500	0.090		X419175	NMS	05/21/24 09:58	
EPA 200.7	Manganese	73.9	mg/L	0.0080	0.0034		X419175	NMS	05/21/24 09:58	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X419175	NMS	05/21/24 09:58	
EPA 200.7	Nickel	0.890	mg/L	0.0100	0.0048		X419175	NMS	05/21/24 09:58	
EPA 200.7	Potassium	5.22	mg/L	0.50	0.18		X419175	NMS	05/21/24 09:58	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X419175	NMS	05/21/24 09:58	
EPA 200.7	Sodium	36.1	mg/L	0.50	0.12		X419175	NMS	05/21/24 09:58	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X419175	NMS	05/21/24 09:58	
EPA 200.7	Zinc	19.0	mg/L	0.0100	0.0054		X419175	NMS	05/21/24 09:58	
EPA 200.8	Antimony	< 0.100	mg/L	0.100	0.0720	100	X419226	SMU	05/20/24 18:45	D1
EPA 200.8	Arsenic	< 0.100	mg/L	0.100	0.0210	100	X419226	SMU	05/20/24 18:45	D1
EPA 200.8	Selenium	< 0.100	mg/L	0.100	0.0240	100	X419226	SMU	05/20/24 18:45	D1
EPA 200.8	Thallium	< 0.0200	mg/L	0.0200	0.00800	100	X419226	SMU	05/20/24 18:45	D1
EPA 200.8	Uranium	0.601	mg/L	0.0100	0.00520	100	X419226	SMU	05/20/24 18:45	D1

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X420050	MAC	05/15/24 15:04	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X421014	DD	05/23/24 11:11	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X420008	JPM	05/14/24 10:52	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X419185	JPM	05/10/24 10:06	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X420066	DD	05/15/24 11:24	
SM 2310 B	Acidity to pH 8.3	1360	mg/L as CaCO3	10.0			X419182	MWD	05/10/24 07:42	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 13:42	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 13:42	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 13:42	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 13:42	
SM 2540 C	Total Diss. Solids	4270	mg/L	40			X419120	TJL	05/09/24 13:50	D2
SM 2540 D	Total Susp. Solids	20.0	mg/L	5.0			X419121	TJL	05/09/24 15:00	
SM 4500 H B	pH @20.8°C	3.8	pH Units				X419144	MWD	05/09/24 13:42	H5

SVL holds the following certifications:

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

Work order Report Page 4 of 22



One Government Gulch - PO Box 929
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Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4E0125 Reported: 31-May-24 15:41

Client Sample ID: **GVMW-125**
SVL Sample ID: **X4E0125-02 (Ground Water)**

Sampled: 07-May-24 09:14
Received: 08-May-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	31.2	mg/L	1.00	0.11	5	X419118	RS	05/08/24 15:47	D2
EPA 300.0	Fluoride	9.00	mg/L	0.500	0.085	5	X419118	RS	05/08/24 15:47	D2
EPA 300.0	Nitrate as N	2.94	mg/L	0.250	0.065	5	X419118	RS	05/08/24 15:47	D1
EPA 300.0	Nitrate+Nitrite as N	2.94	mg/L	0.500	0.220	5	X419118	RS	05/08/24 15:47	D1
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X419118	RS	05/08/24 15:47	D1
EPA 300.0	Sulfate as SO4	3300	mg/L	30.0	18.0	100	X419118	RS	05/08/24 16:05	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 67.1 meq/L	Anion Sum: 70.3 meq/L	C/A Balance: -2.36 %	Calculated TDS: 4051	TDS/cTDS: 1.05

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



Tawnya M. Hall
Project Manager Assistant



One Government Gulch - PO Box 929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4E0125**

Reported: 31-May-24 15:41

Client Sample ID: **RB-0507**

Sampled: 07-May-24 14:15

Received: 08-May-24

Sampled By: PB

SVL Sample ID: **X4E0125-07 (Ground Water)**
Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes

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

EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X420003	NMS	05/14/24 17:36	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X420003	NMS	05/14/24 17:36	
EPA 200.7	Potassium	51.4	mg/L	0.50	0.18		X420003	NMS	05/14/24 17:36	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		05/14/24 17:36	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X419175	NMS	05/21/24 10:18	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X419175	NMS	05/21/24 10:18	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X419175	NMS	05/21/24 10:18	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X419175	NMS	05/21/24 10:18	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X419175	NMS	05/21/24 10:18	
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X419175	NMS	05/21/24 10:18	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X419175	NMS	05/21/24 10:18	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X419175	NMS	05/21/24 10:18	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X419175	NMS	05/21/24 10:18	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X419175	NMS	05/21/24 10:18	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X419175	NMS	05/21/24 10:18	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X419175	NMS	05/21/24 10:18	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X419175	NMS	05/21/24 10:18	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X419175	NMS	05/21/24 10:18	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X419175	NMS	05/21/24 10:18	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X419175	NMS	05/21/24 10:18	
EPA 200.7	Potassium	3.42	mg/L	0.50	0.18		X419175	NMS	05/21/24 10:18	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X419175	NMS	05/21/24 10:18	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X419175	NMS	05/21/24 10:18	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X419175	NMS	05/21/24 10:18	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X419175	NMS	05/21/24 10:18	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X419226	SMU	05/20/24 17:58	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X419226	SMU	05/20/24 17:58	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X419226	SMU	05/20/24 17:58	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X419226	SMU	05/20/24 17:58	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X419226	SMU	05/20/24 17:58	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X420050	MAC	05/15/24 15:19	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X421015	DD	05/28/24 13:03	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X420008	JPM	05/14/24 11:06	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X419185	JPM	05/10/24 10:16	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X420066	DD	05/15/24 11:36	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X419182	MWD	05/10/24 07:42	
SM 2320 B	Total Alkalinity	2.7	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 14:17	
SM 2320 B	Bicarbonate	2.7	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 14:17	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 14:17	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X419144	MWD	05/09/24 14:17	
SM 2540 C	Total Diss. Solids	25	mg/L	10			X419120	TJL	05/09/24 13:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X419121	TJL	05/09/24 15:00	
SM 4500 H B	pH @21.6°C	6.3	pH Units				X419144	MWD	05/09/24 14:17	H5

SVL holds the following certifications:

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

Work order Report Page 14 of 22



One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
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Newmont - Cripple Creek & Victor	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4E0125
Victor, CO 80860	Reported: 31-May-24 15:41

Client Sample ID: **RB-0507**

SVL Sample ID: **X4E0125-07 (Ground Water)**

Sample Report Page 2 of 2

Sampled: 07-May-24 14:15
Received: 08-May-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	8.16	mg/L	0.20	0.02		X419118	RS	05/08/24 11:53	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X419118	RS	05/08/24 11:53	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X419118	RS	05/08/24 11:53	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X419118	RS	05/08/24 11:53	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X419118	RS	05/08/24 11:53	
EPA 300.0	Sulfate as SO4	< 0.30	mg/L	0.30	0.18		X419118	RS	05/08/24 11:53	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.12 meq/L	Anion Sum: 0.29 meq/L	C/A Balance: -42.93 %	Calculated TDS: 37	TDS/cTDS: 0.67

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

Tawnya M. Hall
Project Manager Assistant

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

Client Sample ID: **RB-0605**

Sampled: 05-Jun-24 09:30

Received: 06-Jun-24

Sampled By: PB

SVL Sample ID: **X4F0080-01 (Ground Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	0.183	mg/L	0.100	0.069		X424236	NMS	06/17/24 15:59	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X424236	NMS	06/17/24 15:59	
EPA 200.7	Potassium	52.7	mg/L	0.50	0.18		X424236	NMS	06/17/24 15:59	
SM 2340 B	Hardness (as CaCO ₃)	< 2.31	mg/L	2.31	0.543		N/A		06/17/24 15:59	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X424032	NMS	06/10/24 14:00	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X424032	NMS	06/10/24 14:00	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X424032	NMS	06/10/24 14:00	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X424032	NMS	06/10/24 14:00	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X424032	NMS	06/10/24 14:00	
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X424032	NMS	06/10/24 14:00	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X424032	NMS	06/10/24 14:00	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X424032	NMS	06/10/24 14:00	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X424032	NMS	06/10/24 14:00	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X424032	NMS	06/10/24 14:00	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X424032	NMS	06/10/24 14:00	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X424032	NMS	06/10/24 14:00	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X424032	NMS	06/10/24 14:00	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X424032	NMS	06/10/24 14:00	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X424032	NMS	06/10/24 14:00	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X424032	NMS	06/10/24 14:00	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X424032	NMS	06/10/24 14:00	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X424032	NMS	06/10/24 14:00	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X424032	NMS	06/10/24 14:00	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X424032	NMS	06/10/24 14:00	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X424032	NMS	06/10/24 14:00	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X424005	SMU	06/17/24 11:11	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X424005	SMU	06/17/24 11:11	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X424005	SMU	06/17/24 11:11	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X424005	SMU	06/17/24 11:11	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X424005	SMU	06/17/24 11:11	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X424068	MAC	06/12/24 14:28	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X424161	DD	06/12/24 13:23	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X424183	JPM	06/14/24 10:17	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X424020	JPM	06/11/24 10:44	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X424024	DD	06/11/24 10:03	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO ₃	10.0			X424206	MWD	06/14/24 07:46	
SM 2320 B	Total Alkalinity	8.2	mg/L as CaCO ₃	1.0			X424012	MWD	06/10/24 16:57	
SM 2320 B	Bicarbonate	8.2	mg/L as CaCO ₃	1.0			X424012	MWD	06/10/24 16:57	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X424012	MWD	06/10/24 16:57	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO ₃	1.0			X424012	MWD	06/10/24 16:57	
SM 2540 C	Total Diss. Solids	154	mg/L	10			X423278	TJL	06/11/24 15:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X423280	TJL	06/12/24 15:30	
SM 4500 H B	pH @22.4°C	7.1	pH Units				X424012	MWD	06/10/24 16:57	H5



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

Client Sample ID: **RB-0605**

Sampled: 05-Jun-24 09:30

SVL Sample ID: **X4F0080-01 (Ground Water)**

Received: 06-Jun-24

Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	70.9	mg/L	2.00	0.22	10	X423218	RS	06/06/24 14:44	D2
EPA 300.0	Fluoride	0.188	mg/L	0.100	0.017		X423218	RS	06/06/24 14:25	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X423218	RS	06/06/24 14:25	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X423218	RS	06/06/24 14:25	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X423218	RS	06/06/24 14:25	
EPA 300.0	Sulfate as SO4	0.71	mg/L	0.30	0.18		X423218	RS	06/06/24 14:25	

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

Tawnya M. Hall
Project Manager Assistant



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

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

Sampled: 05-Jun-24 11:20

Received: 06-Jun-24

Sampled By: PB

SVL Sample ID: **X4F0080-04 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes

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

EPA 200.7	Calcium	10.5	mg/L	0.100	0.069		X424236	NMS	06/17/24 16:11	
EPA 200.7	Magnesium	2.30	mg/L	0.500	0.090		X424236	NMS	06/17/24 16:11	
EPA 200.7	Potassium	0.92	mg/L	0.50	0.18		X424236	NMS	06/17/24 16:11	
SM 2340 B	Hardness (as CaCO3)	35.6	mg/L	2.31	0.543		N/A		06/10/24 14:24	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X424032	NMS	06/10/24 14:24	
EPA 200.7	Barium	0.106	mg/L	0.0020	0.0019		X424032	NMS	06/10/24 14:24	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X424032	NMS	06/10/24 14:24	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X424032	NMS	06/10/24 14:24	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X424032	NMS	06/10/24 14:24	
EPA 200.7	Calcium	10.5	mg/L	0.100	0.069		X424032	NMS	06/10/24 14:24	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X424032	NMS	06/10/24 14:24	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X424032	NMS	06/10/24 14:24	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X424032	NMS	06/10/24 14:24	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X424032	NMS	06/10/24 14:24	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X424032	NMS	06/10/24 14:24	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X424032	NMS	06/10/24 14:24	
EPA 200.7	Magnesium	2.38	mg/L	0.500	0.090		X424032	NMS	06/10/24 14:24	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X424032	NMS	06/10/24 14:24	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X424032	NMS	06/10/24 14:24	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X424032	NMS	06/10/24 14:24	
EPA 200.7	Potassium	0.83	mg/L	0.50	0.18		X424032	NMS	06/10/24 14:24	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X424032	NMS	06/10/24 14:24	
EPA 200.7	Sodium	9.68	mg/L	0.50	0.12		X424032	NMS	06/10/24 14:24	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X424032	NMS	06/10/24 14:24	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X424032	NMS	06/10/24 14:24	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X424005	SMU	06/17/24 11:18	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X424005	SMU	06/17/24 11:18	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X424005	SMU	06/17/24 11:18	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X424005	SMU	06/17/24 11:18	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X424005	SMU	06/17/24 11:18	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X424068	MAC	06/12/24 14:39	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X424161	DD	06/12/24 13:28	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X424183	JPM	06/14/24 10:25	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X424020	JPM	06/11/24 10:50	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X424024	DD	06/11/24 10:12	
SM 2310 B	Acidity to pH 8.3	-50.2	mg/L as CaCO3	10.0			X424206	MWD	06/14/24 07:46	
SM 2320 B	Total Alkalinity	44.3	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:14	
SM 2320 B	Bicarbonate	44.3	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:14	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:14	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X424012	MWD	06/10/24 17:14	
SM 2540 C	Total Diss. Solids	78	mg/L	10			X423278	TJL	06/11/24 15:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X423280	TJL	06/12/24 15:30	
SM 4500 H B	pH @22.5°C	6.9	pH Units				X424012	MWD	06/10/24 17:14	H5

SVL holds the following certifications:

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

Work order Report Page 8 of 28



One Government Gulch - PO Box 929
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(208) 784-1258
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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: X4F0080
Reported: 20-Jun-24 10:09

Client Sample ID: GVMW-126G
SVL Sample ID: X4F0080-04 (Ground Water)

Sampled: 05-Jun-24 11:20
Received: 06-Jun-24
Sampled By: PB

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	1.79	mg/L	0.20	0.02		X423218	RS	06/06/24 16:53	
EPA 300.0	Fluoride	0.185	mg/L	0.100	0.017		X423218	RS	06/06/24 16:53	
EPA 300.0	Nitrate as N	0.664	mg/L	0.050	0.013		X423218	RS	06/06/24 16:53	
EPA 300.0	Nitrate+Nitrite as N	0.664	mg/L	0.100	0.044		X423218	RS	06/06/24 16:53	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X423218	RS	06/06/24 16:53	
EPA 300.0	Sulfate as SO4	21.2	mg/L	0.30	0.18		X423218	RS	06/06/24 16:53	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1.17 meq/L Anion Sum: 1.43 meq/L C/A Balance: -10.14 % Calculated TDS: 76 TDS/cTDS: 1.03

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

 Tawnya M. Hall
Project Manager Assistant



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net
Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

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	X424236	17-Jun-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X424236	17-Jun-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X424236	17-Jun-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X424032	10-Jun-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X424032	10-Jun-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X424032	10-Jun-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X424032	10-Jun-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X424032	10-Jun-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X424032	10-Jun-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X424032	10-Jun-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X424032	10-Jun-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X424032	10-Jun-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X424032	10-Jun-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X424032	10-Jun-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X424032	10-Jun-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X424032	10-Jun-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X424032	10-Jun-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X424032	10-Jun-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X424032	10-Jun-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X424032	10-Jun-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X424032	10-Jun-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X424032	10-Jun-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X424032	10-Jun-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X424032	10-Jun-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X424005	17-Jun-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X424005	17-Jun-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X424005	17-Jun-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X424005	17-Jun-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X424005	17-Jun-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X424161	12-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X424183	14-Jun-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X424020	11-Jun-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X424024	11-Jun-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X424206	14-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X424012	10-Jun-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X424012	10-Jun-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X424012	10-Jun-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X424012	10-Jun-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X423278	11-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X423280	12-Jun-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X423218	07-Jun-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X423218	07-Jun-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X423218	07-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X423218	07-Jun-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X423218	07-Jun-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X423218	07-Jun-24	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes

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

EPA 200.7	Calcium	mg/L	19.8	20.0	99	85 - 115	X424236	17-Jun-24	
EPA 200.7	Magnesium	mg/L	20.4	20.0	102	85 - 115	X424236	17-Jun-24	
EPA 200.7	Potassium	mg/L	20.5	20.0	103	85 - 115	X424236	17-Jun-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.942	1.00	94.2	85 - 115	X424032	10-Jun-24	
EPA 200.7	Barium	mg/L	0.951	1.00	95.1	85 - 115	X424032	10-Jun-24	
EPA 200.7	Beryllium	mg/L	0.960	1.00	96.0	85 - 115	X424032	10-Jun-24	
EPA 200.7	Boron	mg/L	0.947	1.00	94.7	85 - 115	X424032	10-Jun-24	
EPA 200.7	Cadmium	mg/L	0.945	1.00	94.5	85 - 115	X424032	10-Jun-24	
EPA 200.7	Calcium	mg/L	19.2	20.0	95.8	85 - 115	X424032	10-Jun-24	
EPA 200.7	Chromium	mg/L	0.948	1.00	94.8	85 - 115	X424032	10-Jun-24	
EPA 200.7	Cobalt	mg/L	0.927	1.00	92.7	85 - 115	X424032	10-Jun-24	
EPA 200.7	Copper	mg/L	0.928	1.00	92.8	85 - 115	X424032	10-Jun-24	
EPA 200.7	Iron	mg/L	9.61	10.0	96.1	85 - 115	X424032	10-Jun-24	
EPA 200.7	Lead	mg/L	0.940	1.00	94.0	85 - 115	X424032	10-Jun-24	
EPA 200.7	Lithium	mg/L	0.915	1.00	91.5	85 - 115	X424032	10-Jun-24	
EPA 200.7	Magnesium	mg/L	19.9	20.0	99.3	85 - 115	X424032	10-Jun-24	
EPA 200.7	Manganese	mg/L	0.945	1.00	94.5	85 - 115	X424032	10-Jun-24	
EPA 200.7	Molybdenum	mg/L	0.950	1.00	95.0	85 - 115	X424032	10-Jun-24	
EPA 200.7	Nickel	mg/L	0.925	1.00	92.5	85 - 115	X424032	10-Jun-24	
EPA 200.7	Potassium	mg/L	19.0	20.0	94.9	85 - 115	X424032	10-Jun-24	
EPA 200.7	Silver	mg/L	0.0481	0.0500	96.1	85 - 115	X424032	10-Jun-24	
EPA 200.7	Sodium	mg/L	18.4	19.0	96.9	85 - 115	X424032	10-Jun-24	
EPA 200.7	Vanadium	mg/L	0.955	1.00	95.5	85 - 115	X424032	10-Jun-24	
EPA 200.7	Zinc	mg/L	0.948	1.00	94.8	85 - 115	X424032	10-Jun-24	
EPA 200.8	Antimony	mg/L	0.0259	0.0250	104	85 - 115	X424005	17-Jun-24	
EPA 200.8	Arsenic	mg/L	0.0273	0.0250	109	85 - 115	X424005	17-Jun-24	
EPA 200.8	Selenium	mg/L	0.0270	0.0250	108	85 - 115	X424005	17-Jun-24	
EPA 200.8	Thallium	mg/L	0.0266	0.0250	106	85 - 115	X424005	17-Jun-24	
EPA 200.8	Uranium	mg/L	0.0266	0.0250	106	85 - 115	X424005	17-Jun-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00209	0.00200	105	85 - 115	X424068	12-Jun-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	0.100	98.0	90 - 110	X424161	12-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.0986	0.100	98.6	90 - 110	X424183	14-Jun-24	
EPA 350.1	Ammonia as N	mg/L	0.964	1.00	96.4	90 - 110	X424020	11-Jun-24	
OIA 1677	Cyanide (WAD)	mg/L	0.104	0.100	104	90 - 110	X424024	11-Jun-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	886	884	100	95.4 - 104	X424206	14-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.80	9.93	98.7	96.4 - 105	X424012	10-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	102	99.3	102	96.4 - 105	X424012	10-Jun-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X423280	12-Jun-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.06	3.00	102	90 - 110	X423218	07-Jun-24	
EPA 300.0	Fluoride	mg/L	2.05	2.00	102	90 - 110	X423218	07-Jun-24	
EPA 300.0	Nitrate as N	mg/L	2.06	2.00	103	90 - 110	X423218	07-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.62	4.50	103	90 - 110	X423218	07-Jun-24	
EPA 300.0	Nitrite as N	mg/L	2.56	2.50	102	90 - 110	X423218	07-Jun-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X423218	07-Jun-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:

X4F0080

Reported:

20-Jun-24 10:09

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	<10.0	<10.0	UDL	20	X424206 - X4F0080-01	14-Jun-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	157	157	0.1	20	X424012 - X4F0080-02	10-Jun-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	157	157	0.1	20	X424012 - X4F0080-02	10-Jun-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X424012 - X4F0080-02	10-Jun-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X424012 - X4F0080-02	10-Jun-24	
SM 2540 C	Total Diss. Solids	mg/L	192	170	12.2	10	X423278 - X4F0080-02	11-Jun-24	R2B
SM 2540 C	Total Diss. Solids	mg/L	315	423	29.3	10	X423278 - X4F0095-01	11-Jun-24	R2B
SM 2540 D	Total Susp. Solids	mg/L	13.0	11.0	16.7	10	X423280 - X4F0080-02	12-Jun-24	R2B
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X423280 - X4F0095-01	12-Jun-24	
SM 4500 H B	pH @22.4°C	pH Units	8.0	8.0	0.4	20	X424012 - X4F0080-02	10-Jun-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	20.0	0.183	20.0	99	70 - 130	X424236 - X4F0080-01	17-Jun-24	
EPA 200.7	Calcium	mg/L	65.1	49.1	20.0	80	70 - 130	X424236 - X4F0103-01	17-Jun-24	
EPA 200.7	Magnesium	mg/L	20.3	<0.500	20.0	101	70 - 130	X424236 - X4F0080-01	17-Jun-24	
EPA 200.7	Magnesium	mg/L	24.8	5.08	20.0	98.4	70 - 130	X424236 - X4F0103-01	17-Jun-24	
EPA 200.7	Potassium	mg/L	77.6	52.7	20.0	125	70 - 130	X424236 - X4F0080-01	17-Jun-24	
EPA 200.7	Potassium	mg/L	34.4	14.9	20.0	97.7	70 - 130	X424236 - X4F0103-01	17-Jun-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.934	<0.080	1.00	93.4	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Aluminum	mg/L	212	216	1.00	0.30R>S	70 - 130	X424032 - X4F0080-07	10-Jun-24	M3
EPA 200.7	Barium	mg/L	0.982	0.0462	1.00	93.5	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Barium	mg/L	0.984	0.0106	1.00	97.4	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Beryllium	mg/L	0.968	<0.00200	1.00	96.8	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Beryllium	mg/L	1.20	0.218	1.00	98.4	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Boron	mg/L	1.02	0.0436	1.00	97.3	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	101	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Cadmium	mg/L	0.921	0.0031	1.00	91.8	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Cadmium	mg/L	1.48	0.517	1.00	96.7	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Calcium	mg/L	280	268	20.0	0.30R>S	70 - 130	X424032 - X4E0432-01	10-Jun-24	M3
EPA 200.7	Calcium	mg/L	486	478	20.0	0.30R>S	70 - 130	X424032 - X4F0080-07	10-Jun-24	M3
EPA 200.7	Chromium	mg/L	0.942	<0.0060	1.00	94.2	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Chromium	mg/L	0.971	0.0160	1.00	95.5	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Cobalt	mg/L	0.908	0.0067	1.00	90.1	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Cobalt	mg/L	1.44	0.489	1.00	94.7	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Copper	mg/L	0.969	0.0117	1.00	95.7	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Copper	mg/L	1.76	0.715	1.00	105	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Iron	mg/L	9.68	<0.100	10.0	96.8	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Iron	mg/L	10.1	0.293	10.0	97.6	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Lead	mg/L	0.914	<0.0075	1.00	90.8	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Lead	mg/L	0.971	<0.0075	1.00	96.4	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Lithium	mg/L	0.911	<0.040	1.00	91.1	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Lithium	mg/L	1.09	0.111	1.00	98.1	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Magnesium	mg/L	77.9	60.0	20.0	89.2	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Magnesium	mg/L	208	192	20.0	84.6	70 - 130	X424032 - X4F0080-07	10-Jun-24	

SVL holds the following certifications:

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

Work order Report Page 18 of 28


Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order:

X4F0080

Reported:

20-Jun-24 10:09

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	0.966	0.0259	1.00	94.0	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Manganese	mg/L	74.0	74.5	1.00	0.30R>S	70 - 130	X424032 - X4F0080-07	10-Jun-24	M3
EPA 200.7	Molybdenum	mg/L	0.984	0.0275	1.00	95.7	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Molybdenum	mg/L	0.978	<0.0080	1.00	97.4	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Nickel	mg/L	0.899	<0.0100	1.00	89.9	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Nickel	mg/L	1.83	0.893	1.00	93.8	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Potassium	mg/L	23.7	4.45	20.0	96.1	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Potassium	mg/L	25.4	5.38	20.0	100	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Silver	mg/L	0.0482	<0.0050	0.0500	96.4	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Silver	mg/L	0.0515	<0.0050	0.0500	103	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Sodium	mg/L	66.5	49.4	19.0	90.1	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Sodium	mg/L	55.1	36.6	19.0	97.5	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Vanadium	mg/L	0.967	<0.0050	1.00	96.7	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Vanadium	mg/L	0.994	0.0057	1.00	98.8	70 - 130	X424032 - X4F0080-07	10-Jun-24	
EPA 200.7	Zinc	mg/L	1.28	0.359	1.00	92.5	70 - 130	X424032 - X4E0432-01	10-Jun-24	
EPA 200.7	Zinc	mg/L	19.7	19.1	1.00	0.30R>S	70 - 130	X424032 - X4F0080-07	10-Jun-24	M3
EPA 200.8	Antimony	mg/L	0.0271	<0.00100	0.0250	105	70 - 130	X424005 - X4F0019-01	17-Jun-24	
EPA 200.8	Antimony	mg/L	0.0269	<0.00100	0.0250	108	70 - 130	X424005 - X4F0056-01	17-Jun-24	
EPA 200.8	Arsenic	mg/L	0.0268	<0.00100	0.0250	107	70 - 130	X424005 - X4F0019-01	17-Jun-24	
EPA 200.8	Arsenic	mg/L	0.0275	<0.00100	0.0250	109	70 - 130	X424005 - X4F0056-01	17-Jun-24	
EPA 200.8	Selenium	mg/L	0.0269	<0.00100	0.0250	107	70 - 130	X424005 - X4F0019-01	17-Jun-24	
EPA 200.8	Selenium	mg/L	0.0282	0.00122	0.0250	108	70 - 130	X424005 - X4F0056-01	17-Jun-24	
EPA 200.8	Thallium	mg/L	0.0267	<0.000200	0.0250	107	70 - 130	X424005 - X4F0019-01	17-Jun-24	
EPA 200.8	Thallium	mg/L	0.0265	<0.000200	0.0250	106	70 - 130	X424005 - X4F0056-01	17-Jun-24	
EPA 200.8	Uranium	mg/L	0.0277	0.000656	0.0250	108	70 - 130	X424005 - X4F0019-01	17-Jun-24	
EPA 200.8	Uranium	mg/L	0.0281	0.00121	0.0250	108	70 - 130	X424005 - X4F0056-01	17-Jun-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00211	<0.000200	0.00200	106	70 - 130	X424068 - X4F0004-01	12-Jun-24	
EPA 245.1	Mercury	mg/L	0.00210	<0.000200	0.00200	105	70 - 130	X424068 - X4F0080-02	12-Jun-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0820	<0.0050	0.100	82.0	79 - 121	X424161 - X4F0045-01	12-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.0982	<0.0050	0.100	98.2	90 - 110	X424183 - X4F0079-01	14-Jun-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X424183 - X4F0079-02	14-Jun-24	
EPA 350.1	Ammonia as N	mg/L	1.00	<0.030	1.00	100	90 - 110	X424020 - X4F0078-09	11-Jun-24	
EPA 350.1	Ammonia as N	mg/L	0.990	<0.030	1.00	99.0	90 - 110	X424020 - X4F0078-10	11-Jun-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0990	<0.0050	0.100	99.0	82 - 118	X424024 - X4E0490-03	11-Jun-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	4.97	1.79	3.00	106	90 - 110	X423218 - X4F0080-03	06-Jun-24	
EPA 300.0	Chloride	mg/L	167	162	3.00	0.30R>S	90 - 110	X423218 - X4F0084-01	07-Jun-24	D2,M4
EPA 300.0	Fluoride	mg/L	2.25	0.215	2.00	102	90 - 110	X423218 - X4F0080-03	06-Jun-24	
EPA 300.0	Fluoride	mg/L	2.71	<0.100	2.00	135	90 - 110	X423218 - X4F0084-01	06-Jun-24	M1
EPA 300.0	Nitrate as N	mg/L	2.78	0.663	2.00	106	90 - 110	X423218 - X4F0080-03	06-Jun-24	
EPA 300.0	Nitrate as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X423218 - X4F0084-01	06-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.84	0.663	4.00	104	90 - 110	X423218 - X4F0080-03	06-Jun-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.40	<0.100	4.00	110	90 - 110	X423218 - X4F0084-01	06-Jun-24	D1
EPA 300.0	Nitrite as N	mg/L	2.05	<0.050	2.00	103	90 - 110	X423218 - X4F0080-03	06-Jun-24	
EPA 300.0	Nitrite as N	mg/L	<2.50	<2.50	2.00	118	90 - 110	X423218 - X4F0084-01	07-Jun-24	D1,M4
EPA 300.0	Sulfate as SO4	mg/L	31.8	21.4	10.0	104	90 - 110	X423218 - X4F0080-03	06-Jun-24	

SVL holds the following certifications:

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

Work order Report Page 19 of 28


Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO ₄	mg/L	11.0	<0.30	10.0	107	90 - 110	X423218 - X4F0084-01	06-Jun-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	19.4	20.0	20.0	3.0	20	96	X424236 - X4F0080-01	
EPA 200.7	Magnesium	mg/L	19.9	20.3	20.0	1.7	20	99.7	X424236 - X4F0080-01	
EPA 200.7	Potassium	mg/L	76.4	77.6	20.0	1.6	20	118	X424236 - X4F0080-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.980	0.934	1.00	4.8	20	98.0	X424032 - X4E0432-01	
EPA 200.7	Barium	mg/L	1.03	0.982	1.00	4.5	20	98.0	X424032 - X4E0432-01	
EPA 200.7	Beryllium	mg/L	0.986	0.968	1.00	1.9	20	98.6	X424032 - X4E0432-01	
EPA 200.7	Boron	mg/L	1.05	1.02	1.00	2.9	20	100	X424032 - X4E0432-01	
EPA 200.7	Cadmium	mg/L	0.954	0.921	1.00	3.5	20	95.1	X424032 - X4E0432-01	
EPA 200.7	Calcium	mg/L	281	280	20.0	0.4	20	0.30R>S	X424032 - X4E0432-01	M3
EPA 200.7	Chromium	mg/L	0.976	0.942	1.00	3.5	20	97.6	X424032 - X4E0432-01	
EPA 200.7	Cobalt	mg/L	0.939	0.908	1.00	3.4	20	93.3	X424032 - X4E0432-01	
EPA 200.7	Copper	mg/L	0.999	0.969	1.00	3.1	20	98.7	X424032 - X4E0432-01	
EPA 200.7	Iron	mg/L	9.98	9.68	10.0	3.1	20	99.8	X424032 - X4E0432-01	
EPA 200.7	Lead	mg/L	0.947	0.914	1.00	3.5	20	94.1	X424032 - X4E0432-01	
EPA 200.7	Lithium	mg/L	0.945	0.911	1.00	3.6	20	94.5	X424032 - X4E0432-01	
EPA 200.7	Magnesium	mg/L	79.9	77.9	20.0	2.6	20	99.5	X424032 - X4E0432-01	
EPA 200.7	Manganese	mg/L	1.00	0.966	1.00	3.5	20	97.4	X424032 - X4E0432-01	
EPA 200.7	Molybdenum	mg/L	1.02	0.984	1.00	3.6	20	99.3	X424032 - X4E0432-01	
EPA 200.7	Nickel	mg/L	0.933	0.899	1.00	3.7	20	93.3	X424032 - X4E0432-01	
EPA 200.7	Potassium	mg/L	24.2	23.7	20.0	2.4	20	99.0	X424032 - X4E0432-01	
EPA 200.7	Silver	mg/L	0.0496	0.0482	0.0500	2.9	20	99.3	X424032 - X4E0432-01	
EPA 200.7	Sodium	mg/L	67.2	66.5	19.0	1.0	20	93.6	X424032 - X4E0432-01	
EPA 200.7	Vanadium	mg/L	0.997	0.967	1.00	3.0	20	99.7	X424032 - X4E0432-01	
EPA 200.7	Zinc	mg/L	1.32	1.28	1.00	2.6	20	95.9	X424032 - X4E0432-01	
EPA 200.8	Antimony	mg/L	0.0270	0.0271	0.0250	0.5	20	105	X424005 - X4F0019-01	
EPA 200.8	Arsenic	mg/L	0.0277	0.0268	0.0250	3.6	20	111	X424005 - X4F0019-01	
EPA 200.8	Selenium	mg/L	0.0271	0.0269	0.0250	0.6	20	107	X424005 - X4F0019-01	
EPA 200.8	Thallium	mg/L	0.0266	0.0267	0.0250	0.4	20	106	X424005 - X4F0019-01	
EPA 200.8	Uranium	mg/L	0.0271	0.0277	0.0250	2.4	20	106	X424005 - X4F0019-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00205	0.00211	0.00200	2.9	20	103	X424068 - X4F0004-01	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0770	0.0820	0.100	6.3	11	77.0	X424161 - X4F0045-01	M2
EPA 335.4	Cyanide (total)	mg/L	0.101	0.0982	0.100	2.4	20	101	X424183 - X4F0079-01	
EPA 350.1	Ammonia as N	mg/L	0.990	1.00	1.00	1.0	20	99.0	X424020 - X4F0078-09	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.0990	0.100	2.0	11	101	X424024 - X4E0490-03	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	164	167	3.00	1.7	20	0.30R>S	X423218 - X4F0084-01	D2,M4
EPA 300.0	Fluoride	mg/L	2.73	2.71	2.00	0.8	20	136	X423218 - X4F0084-01	M1
EPA 300.0	Nitrate as N	mg/L	2.06	2.04	2.00	1.2	20	103	X423218 - X4F0084-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.43	4.40	4.00	0.5	20	111	X423218 - X4F0084-01	D1,M4
EPA 300.0	Nitrite as N	mg/L	<2.50	<2.50	2.00	0.0	20	118	X423218 - X4F0084-01	D1,M4

SVL holds the following certifications:

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

Work order Report Page 20 of 28



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Newmont - Cripple Creek & Victor				Project Name: Cripple Creek/Victor Water and Soil 2024			
Post Office Box 191				Work Order: X4F0080			
Victor, CO 80860				Reported: 20-Jun-24 10:09			

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	11.0	11.0	10.0	0.6	20	108	X423218 - X4F0084-01	



Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

HOLDING TIME SUMMARY**ASTM D7237**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0080**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
RB-0605	06/05/24	06/06/24	06/12/24	7	14	06/12/24	7	14	
GVMW-26A	06/05/24	06/06/24	06/12/24	7	14	06/12/24	7	14	
GVMW-26B	06/05/24	06/06/24	06/12/24	7	14	06/12/24	7	14	
GVMW-126G	06/05/24	06/06/24	06/12/24	7	14	06/12/24	7	14	
GVMW-22A	06/05/24	06/06/24	06/12/24	7	14	06/12/24	7	14	
GVMW-22B	06/05/24	06/06/24	06/12/24	7	14	06/12/24	7	14	
GVMW-25	06/05/24	06/06/24	06/12/24	7	14	06/12/24	7	14	

HOLDING TIME SUMMARY**EPA 245.1**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0080**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
RB-0605	06/05/24	06/06/24	06/12/24	7	28	06/12/24	7	28	
GVMW-26A	06/05/24	06/06/24	06/12/24	7	28	06/12/24	7	28	
GVMW-26B	06/05/24	06/06/24	06/12/24	7	28	06/12/24	7	28	
GVMW-126G	06/05/24	06/06/24	06/12/24	7	28	06/12/24	7	28	
GVMW-22A	06/05/24	06/06/24	06/12/24	7	28	06/12/24	7	28	
GVMW-22B	06/05/24	06/06/24	06/12/24	7	28	06/12/24	7	28	
GVMW-25	06/05/24	06/06/24	06/12/24	7	28	06/12/24	7	28	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

HOLDING TIME SUMMARY**EPA 300.0**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0080**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
RB-0605	06/05/24 09:30	06/06/24	06/06/24 13:19	1.2	2.0	06/06/24 14:25	1.2	2.0	
RB-0605	06/05/24	06/06/24	06/06/24	1	28	06/06/24	1	28	
RB-0605	06/05/24	06/06/24	06/06/24	1	28	06/06/24	1	28	
GVMW-26A	06/05/24 10:19	06/06/24	06/06/24 13:19	1.2	2.0	06/06/24 15:39	1.3	2.0	
GVMW-26A	06/05/24	06/06/24	06/06/24	1	28	06/06/24	1	28	
GVMW-26B	06/05/24 11:20	06/06/24	06/06/24 13:19	1.1	2.0	06/06/24 16:16	1.2	2.0	
GVMW-26B	06/05/24	06/06/24	06/06/24	1	28	06/06/24	1	28	
GVMW-126G	06/05/24 11:20	06/06/24	06/06/24 13:19	1.1	2.0	06/06/24 16:53	1.3	2.0	
GVMW-126G	06/05/24	06/06/24	06/06/24	1	28	06/06/24	1	28	
GVMW-22A	06/05/24 12:35	06/06/24	06/06/24 13:19	1.1	2.0	06/06/24 18:25	1.3	2.0	
GVMW-22A	06/05/24	06/06/24	06/06/24	1	28	06/06/24	1	28	
GVMW-22B	06/05/24 13:32	06/06/24	06/06/24 13:19	1.0	2.0	06/06/24 19:02	1.3	2.0	
GVMW-22B	06/05/24	06/06/24	06/06/24	1	28	06/06/24	1	28	
GVMW-25	06/05/24 14:25	06/06/24	06/06/24 13:19	1.0	2.0	06/06/24 19:39	1.3	2.0	
GVMW-25	06/05/24	06/06/24	06/06/24	1	28	06/06/24	1	28	
GVMW-25	06/05/24	06/06/24	06/06/24	1	28	06/06/24	1	28	
GVMW-25	06/05/24	06/06/24	06/06/24	1	28	06/07/24	2	28	



Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

HOLDING TIME SUMMARY**EPA 335.4**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0080**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
RB-0605	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-26A	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-26B	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-126G	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-22A	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-22B	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-25	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	

HOLDING TIME SUMMARY**EPA 350.1**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0080**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
RB-0605	06/05/24	06/06/24	06/10/24	5	28	06/11/24	6	28	
GVMW-26A	06/05/24	06/06/24	06/10/24	5	28	06/11/24	6	28	
GVMW-26B	06/05/24	06/06/24	06/10/24	5	28	06/11/24	6	28	
GVMW-126G	06/05/24	06/06/24	06/10/24	5	28	06/11/24	6	28	
GVMW-22A	06/05/24	06/06/24	06/10/24	5	28	06/11/24	6	28	
GVMW-22B	06/05/24	06/06/24	06/10/24	5	28	06/11/24	6	28	
GVMW-25	06/05/24	06/06/24	06/10/24	5	28	06/11/24	6	28	



Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

HOLDING TIME SUMMARY**OIA 1677**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0080**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
RB-0605	06/05/24	06/06/24	06/10/24	5	14	06/11/24	6	14	
GVMW-26A	06/05/24	06/06/24	06/10/24	5	14	06/11/24	6	14	
GVMW-26B	06/05/24	06/06/24	06/10/24	5	14	06/11/24	6	14	
GVMW-126G	06/05/24	06/06/24	06/10/24	5	14	06/11/24	6	14	
GVMW-22A	06/05/24	06/06/24	06/10/24	5	14	06/11/24	6	14	
GVMW-22B	06/05/24	06/06/24	06/10/24	5	14	06/11/24	6	14	
GVMW-25	06/05/24	06/06/24	06/10/24	5	14	06/11/24	6	14	

HOLDING TIME SUMMARY**SM 2310 B**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0080**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
RB-0605	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-26A	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-26B	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-126G	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-22A	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-22B	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	
GVMW-25	06/05/24	06/06/24	06/13/24	8	14	06/14/24	9	14	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

HOLDING TIME SUMMARY**SM 2320 B**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0080**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
RB-0605	06/05/24	06/06/24	06/10/24	5	14	06/10/24	5	14	
GVMW-26A	06/05/24	06/06/24	06/10/24	5	14	06/10/24	5	14	
GVMW-26B	06/05/24	06/06/24	06/10/24	5	14	06/10/24	5	14	
GVMW-126G	06/05/24	06/06/24	06/10/24	5	14	06/10/24	5	14	
GVMW-22A	06/05/24	06/06/24	06/10/24	5	14	06/10/24	5	14	
GVMW-22B	06/05/24	06/06/24	06/10/24	5	14	06/10/24	5	14	
GVMW-25	06/05/24	06/06/24	06/10/24	5	14	06/10/24	5	14	

HOLDING TIME SUMMARY**SM 2540 C**Laboratory: **SVL Analytical, Inc.**SDG: **X4F0080**Client: **Newmont - Cripple Creek & Victor**Project: **Cripple Creek/Victor Water and Soil 2024**

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
RB-0605		06/06/24		5	7		1.0		
GVMW-26A		06/06/24		5	7		1.0		
GVMW-26B		06/06/24		5	7		1.0		
GVMW-126G		06/06/24		5	7		1.0		
GVMW-22A		06/06/24		5	7		1.0		
GVMW-22B		06/06/24		5	7		1.0		
GVMW-25		06/06/24		5	7		1.0		



Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: X4F0080

Reported: 20-Jun-24 10:09

HOLDING TIME SUMMARY**SM 2540 D**

Laboratory: SVL Analytical, Inc.

SDG: X4F0080

Client: Newmont - Cripple Creek & Victor

Project: Cripple Creek/Victor Water and Soil 2024

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
RB-0605		06/06/24		5	7		2.0		
GVMW-26A		06/06/24		5	7		2.0		
GVMW-26B		06/06/24		5	7		2.0		
GVMW-126G		06/06/24		5	7		2.0		
GVMW-22A		06/06/24		5	7		2.0		
GVMW-22B		06/06/24		5	7		2.0		
GVMW-25		06/06/24		5	7		2.0		

HOLDING TIME SUMMARY**SM 4500 H B**

Laboratory: SVL Analytical, Inc.

SDG: X4F0080

Client: Newmont - Cripple Creek & Victor

Project: Cripple Creek/Victor Water and Soil 2024

Sample Name	Date Collected	Date Recvd	Date Prepped	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
RB-0605	06/05/24 09:30	06/06/24	06/10/24 08:06	5.0	0.0	06/10/24 16:57	5.4	0.0	H5
GVMW-26A	06/05/24 10:19	06/06/24	06/10/24 08:06	4.9	0.0	06/10/24 17:02	5.3	0.0	H5
GVMW-26B	06/05/24 11:20	06/06/24	06/10/24 08:06	4.9	0.0	06/10/24 17:08	5.3	0.0	H5
GVMW-126G	06/05/24 11:20	06/06/24	06/10/24 08:06	4.9	0.0	06/10/24 17:14	5.3	0.0	H5
GVMW-22A	06/05/24 12:35	06/06/24	06/10/24 08:06	4.9	0.0	06/10/24 17:32	5.2	0.0	H5
GVMW-22B	06/05/24 13:32	06/06/24	06/10/24 08:06	4.8	0.0	06/10/24 17:39	5.2	0.0	H5
GVMW-25	06/05/24 14:25	06/06/24	06/10/24 08:06	4.8	0.0	06/10/24 17:45	5.2	0.0	H5



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4F0080**

Reported: 20-Jun-24 10:09

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable



Cripple Creek & Victor
Gold Mining Company
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newmont.com

Attachment 2

Field Sheets

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

Location: AG-2.0

Date: 4-30-24

Technician: A. Barula

Quarter: 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
7:55	7.24	77.7	2.8	173.3

Sample Method: Grab

DO
43.13

Oil/Gas visible [Y/N]

Turbid [Y/N]

Clear [Y/N]

Weather: 34°, cold, clear

Signature: 

Comments / Notes:

$3.5 \times 100 = 350 \text{ gpm}$

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Date: 4-16-24

Location: T-2

Quarter: 2

Technician: R. Barela

Time	pH (S.U.)	Cond (µS/cm)	Temp (°C)	Notes
2:20	6.81	779.8	11.0	ORP 267

Sample Method:

Grab

Oil/Gas visible

[Y/N] ☒ N

Turbid

[Y/N] ☒ N

Clear

[Y/N] ☒ N

Weather:

Signature:

Comments:

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: WCMW-1Date: 6/27/24Technician: Trenton ReedQuarter: 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
9:45	—	—	—	—

Sample Method: —Oil/Gas visible [Y/N]Turbid [Y/N]Clear [Y/N]Weather: clear sunnySignature: 

Comments:

Dry / No Flow

Use 5 gal bucket

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Date: 4-22-24

Location: CRMW-3B

Quarter: 2

Technician: A. Barela

Time	Temp (S.U.)	Conduct (uS/cm)	pH	Notes
3:40	6.56	1747	31.4	<u>orD</u> 234

Sample Method:

Grab

Oil/Gas visible

[Y/N] N

Turbid

[Y/N] N

Clear

[Y/N] N

Weather:

Signature:

[Signature]

Comments:

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Date: 4-22-24

Location: CBMW-3C

Quarter: 2

Technician: P. Barcia

Time	pH (S.G.)	Conductivity (uS/cm)	Temp (°C)	Dissolved Solids (mg/L)
3:44	6.82	2143	20.0	Orp 67

Sample Method:

Grab

Oil/Gas visible

[Y/N]

Turbid

[Y/N]

Clear

[Y/N]

Weather:

Signature:

[Signature]

Comments:

Show Calculations:

USE 5 gal bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Anequa Gulch
Technician: P. Barela
Static Water Level (DTW): 182.7

Date: 6-17-24 / 6-18-24
Quarter: 2
Well ID: ESPMW-1
Well Depth (TD): 220 feet

Is well Dry? No If so Dry at: N/A

Time	Depth to Water (ft)	Drawdown (ft)	pH (SU)	Cond. (uS/cm)	Temp (°C)	DO (mg/L)	ORP	Notes
8:35			7.04	536.5	8.0	—	-72	
8:37								dried out stopped pumping 2.03 dropped water level
8:07	182.2							Insufficient hot enough to collect sample.

Sample Method: Purge & Return Rate (gpm): — Time Start: 8:35 Time End: 8:07
* Flow rate at stabilization (during sample collection) 6.17.24 6.18.24

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

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

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

Weather: 59° Clear Sunny
Signature: [Signature]

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

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Ancova Gulch
Technician: P. Barela
Static Water Level (DTW): 182.7

Date: 6-17-24 / 6-18-24
Quarter: 2
Well ID: ESPMW-1
Well Depth (TD): 220
feet

Is well Dry? No

If so Dry at: N/A

Time	Depth to Water (ft)	Drawdown (ft)	pH (SU)	Cond. (µS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
8:35			7.04	536.5	8.0	—	-72	
8:37								dried out stopped pumping 203 stopped water level
8:07	182.2							Insufficient hot enough to collect sample.

Sample Method: Purge & Return Rate (gpm): — Time Start: 8:35 Time End: 8:07
* Flow rate at stabilization (during sample collection) 6.17.24 6.18.24

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

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

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

Weather: 59° Clear Sunny
Signature: [Signature]

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

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
Technician: P. Barola
Static Water Level (DTW):

Date: 4-1-24
Quarter: 2
Well ID: JGMW-2
Well Depth (TD): 218

Is well Dry? yes If so Dry at: 218 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:22								
<u>NO SAMPLE</u>								
<u>Dry</u>								

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	±10	Y / N	
DTW Stabilized	feet	Y / N	
Final H ₂ O level	feet		

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

O/G visible: Y / N Turbid? Y / N
Equipment Decontaminated: Y / N
Decontamination procedure used: use sounder

Weather: 34° Cloudy
Signature: [Signature]

Volume Calculations: For 2" Diameter Well (gal): $V(gal) = 0.1632 \times h(ft)$ For 4" Diameter Well (gal): $V(gal) = 0.6528 \times h(ft)$ Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 \times (r(in))^2 \times h(ft)$ Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$ Well Volume Purge Method: $Three\ Well\ Volumes = 3 \times V$	
Conversions: 1ft³ = 7.48 gal 1gal = 3.785 L	Show Calculations:

Show Calculations:

vor 5 gel. buch

Use 5 gal bucket

Show Calculations:

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Vindicator Valley

Date: 5/29/24

Technician: P. Barela

Quarter: 2

Static Water Level (DTW): 85.5

Well ID: VIN-2B

Well Depth (TD): 140

Is well Dry? NO

If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (C)	DO mg/L	ORP	Notes
8:50			7.01	1329	7.8	—	47	
8:57	139	dried out / stopped Pumping						
1:15	95.7		6.56	1329	7.2	—	156	collected sample

Sample Method: Purge & return Rate (gpm): —

* Flow rate at stabilization (during sample collection)

Time Start: 8:50 Time End: 1:15

Final Parameter	Stabilization Guidance	Met?	Comments
pH	6.46	Y / N	
Conductivity	1329	Y / N	
Temp (deg C)	7.2	Y / N	
Dissolved Oxygen	—	Y / N	
Turbidity	—	Y / N	
Oxidation/Reduction	156	Y / N	
DTW Stabilized	95.7	Y / N	
Final H2O level	95.7	Y / N	

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

* See Field Volume Guide

If yes, required pump vol (gal): NA

Actual vol. pumped (gal) NA

O/G visible: Y / N

Equipment Decontaminated: Y / N

Turbid? Y / N

Decontamination procedure used: Dedicated pump, use sonder.

Weather: 49°, hot, sunny

Signature: [Signature]

Volume Calculations:

For 2" Diameter Well (gal): $V(gal) = 0.1632 \cdot h(ft)$

For 4" Diameter Well (gal): $V(gal) = 0.6528 \cdot h(ft)$

Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 \cdot (r(in))^2 \cdot h(ft)$

Water Column Calculations: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$

Well Volume Purge Method: $Three\ Well\ Volumes = 3 \cdot V$

Conversions:

1ft³ = 7.48 gal

1gal = 3.785 L

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Wilson Creek
Technician: Trenton Reed
Static Water Level (DTW): 5.7'

Date: 6/27/24
Quarter: Z
Well ID: WCMW-6
Well Depth (TD): 239'

Is well Dry? NOIf so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:12			7.12	275.7	9.1	2.72	-2.7	
10:17	4.85	+0.85	7.08	273.9	10.2	2.25	-23.4	
10:22	4.95	.10	7.06	266.4	11.0	1.9	-37.9	
★ 10:27	5.05	.10	7.04	266.7	11.0	1.72	-43.8	0.13 L/M
10:32	5.05	0	7.05	265.6	11.1	1.73	-48.5	
10:37	5.1	.05	7.05	264.7	10.9	1.57	-53.8	
10:42	5.1	0	7.04	266.3	10.9	1.58	-57.2	
10:47	5.1	0	7.04	266.1	10.8	1.53	-59.0	

Sample Method: Low Flow Rate (gpm): 0.03 Time Start: 10:12 Time End: 10:47
* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	7.04	±0.1	Y / N
Conductivity	266.1	3%	Y / N
Temp (deg C)	10.8	3%	Y / N
Dissolved Oxygen	1.53	10%	Y / N
Turbidity	—	10%	Y / N
Oxidation/Reduction	-59.0	±10	Y / N
DTW Stabilized	5.1'	feet	Y / N
Final H2O level	5.1'	feet	

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

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

Weather: clear sunny 65°
Signature: [Signature]

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

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Date: 4-16-24

Location: GV-02

Quarter: 2

Technician: R. Barela

Time	pH (S.U.)	Cond (uS/cm)	Temp (°C)	Notes
11:00	6.30	412.4	0.4	1 x 100 = 100

Sample Method:

Grab

Oil/Gas visible

[Y/N] (N)

Turbid

[Y/N] (N)

Clear

[Y/N] (N)

Weather:

43°, ver x windx, Opud x

Signature:

[Signature]

Comments:

~~226~~
226

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

Location: GV-02

Date: 5/29/2024

Technician: AK & SW

Quarter: May Q2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
1530	4.70	1749	11.9	446

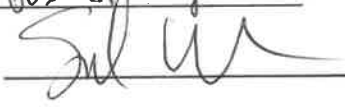
Sample Method: Grab

Oil/Gas visible ☒ Y ☐ N

Turbid ☒ Y ☐ N

Clear ☐ Y ☒ N

Weather: 60% cloudy

Signature: 

Comments / Notes:

Flow at 1 inch / 10 gpm

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

Location: 6U-02

Date: 6/24/24

Technician: TR

Quarter: 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
8:42	—	—	—	—

Sample Method: —

Oil/Gas visible [Y/N]

Turbid [Y/N]

Clear [Y/N]

Weather: Clear Sunny 64°

Signature: [Signature]

Comments / Notes:

Flow not high enough to measure + Not enough
Flow to sample

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: GV-03

Date: 4-16-24

Technician: J. Barela

Quarter: 2

Time	pH (S.D.)	Cond (µS/cm)	Temp (°C)	Notes
10:35	6.71	221.2	1.2	$1.5 \times 100 = 150$

ORP
251

Sample Method:

Grab

Oil/Gas visible

[Y/N] N

Turbid

[Y/N] N

Clear

[Y/N] N

Weather:

40°, very windy, cloudy

Signature:

[Signature]

Comments:

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Date: 7-15-24

Location: 6v-06

Quarter: 2

Technician: P. Baraka

Time	pH (S.U.)	Cond (us/cm)	Temp (°C)	Notes
1:45	6.57	189.2	2.1	ORP 171

Sample Method:

Grab

Oil/Gas visible

[Y/N]

Turbid

[Y/N] Slight dirt

Clear

[Y/N]

Weather:

49° clear, wind v

Signature:

[Signature]

Comments:

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

Location: GU06

Date: 5/29/2024

Technician: Akt SW

Quarter: May Q2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
11:12	7.24	486.6	14.4	86 mV

Sample Method: Grab

Oil/Gas visible ☒ Y ☐ N

Turbid ☒ Y ☐ N

Clear ☒ Y ☐ N

Weather: 60 S Sunny

Signature: Alexis Kras

Comments / Notes:

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

Location: 6V-06

Date: 6/24/28

Technician: TR

Quarter: 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
8:07	7.15	366.1	11.4	50

Sample Method: Grad

Oil/Gas visible [Y/N]

Turbid [Y/N]

Clear [Y/N]

Weather: Clear Sunny 64°

Signature: [Signature]

Comments / Notes:

Slight Dirt

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

Location: GV-03Date: 6/20/24Technician: KUR, AKQuarter: Q2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
1035	/	/	/	/

Sample Method: Grab - DryOil/Gas visible [Y/N]Turbid [Y/N]Clear [Y/N]Weather: Sunny 60°FSignature: Thyle Reams

Comments / Notes:

Dry

use 5 gal
bucket

use 5 gal
bucket

USE 5 gal bucket

Signature: _____

Volume Calculations:

For 2" Diameter Well (gal): $V(gal) = 0.1632 \cdot h(ft)$ For 4" Diameter Well (gal): $V(gal) = 0.6528 \cdot h(ft)$

Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 \cdot (r(in))^2 \cdot h(ft)$

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

Well Volume Purge Method: $\text{Three Well Volumes} = 3 \cdot V$

Conversions: $1ft^3 = 7.48 \text{ gal}$ $1gal = 3.785 L$	Show Calculations: $2.8 + 0.29 = 3.09$ use 5 gal bucket

use 5 gal Bucket

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: BB-0507

Date: 5-7-24

Technician: P. Barula

Quarter: 2

Time	pH (S.U.)	Temp (C/F)	Conductivity (C)	Alkalinity
2:15	5.29	89.9	16.9	<u>ORP</u> 142.6

Sample Method: Grab

Oil/Gas visible ☒ [Y/N]

Turbid ☒ [Y/N]

Clear ☒ [Y/N]

Weather: _____

Signature: _____

Comments:

Collected BB after collecting GYMW-22 A

✓ 82.5 gal
bucket

we 5 gal bucket

use 5 gal bucket

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: RB-0403

Date: 4-3-24

Technician: P. Barela

Quarter: 2

Time	pH (S.U.)	Cond (µS/cm)	Temp (°C)	Notes
9:20	6.78	245.6	14.9	ORP 177.0

Sample Method:

Grab

Oil/Gas visible

[Y/N] ☒ N

Turbid

[Y/N] ☒ N

Clear

[Y/N] ☒ N

Weather:

windy, clear 41°

Signature:

[Signature]

Comments:

RB before sampling GVMW-26A

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

Location: BB-0605**Date:** 6-5-24**Technician:** P. Barola**Quarter:** 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
9:30	5.04	1399	20.7	82.9

Sample Method: Grab**Oil/Gas visible** [Y / N] N**Turbid** [Y / N] N**Clear** [Y / N] N**Weather:** 59° clear, windy**Signature:** [Signature]**Comments / Notes:**

BB before sampling
GVMW - 26 A

Signature: _____

Volume Calculations:

For 2" Diameter Well (gal): $V(gal) = 0.1632 \cdot h(ft)$ For 4" Diameter Well (gal): $V(gal) = 0.6528 \cdot h(ft)$

Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 \cdot (r(in))^2 \cdot h(ft)$

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

Well Volume Purge Method: Three Well Volumes = $3 \cdot V$

Conversions: $1ft^3 = 7.48 \text{ gal}$ $1gal = 3.785 L$	Show Calculations: $4.0 + 0.41 = 4.41$ use 5 gal bucket

Ugl 5 gal buchot

Show Calculations:

Signature:

Volume Calculations:

For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$

Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$

Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$

Well Volume Purge Method: $Three\ Well\ Volumes = 3^*V$

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

use 5 gal buckets.

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: CCVB-0418

Date: 4-18-27

Technician: P. Pareda

Quarter: 2

Time	pH (SU)	Cond. (US/cm)	Temp. (°C)	Notes
12:40	6.67	3.58	13.9	<u>0.18</u> 211

Sample Method:

Grab

Oil/Gas visible

[Y/N] N

Turbid

[Y/N] N

Clear

[Y/N]

Weather:

41°, cloudy w/ wind

Signature:

[Signature]

Comments:

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: BB-0404

Date: 4-4-24

Technician: P. Barla

Quarter: 2

Time	pH (S.U.)	Conc. (mg/L)	Temp. (°C)	Notes
11:15	8.66	2.13	18.9	GRP 212

Sample Method: Grab

Oil/Gas visible ☒ [Y/N]

Turbid ☒ [Y/N]

Clear ☒ [Y/N]

Weather: 44°, Clear, hot

Signature: [Signature]

Comments:

BB collected before sampling
GVMW-7A

use 5 gal bucket

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Date: 4-10-24

Location: BB-0410

Quarter: 2

Technician: A. Barcia

Time	pH (S.U.)	Cond (uS/cm)	Temp (°C)	Notes
10:55	7.62	41.72	14.0	<u>ORP</u> 183

Sample Method: Grab

Oil/Gas visible [Y/N]

Turbid [Y/N]

Clear [Y/N]

Weather: 36°, cloudy

Signature: [Signature]

Comments:



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Attachment 3

Surface Water Calculations

AG 2.0		
Sample Date:		4/30/2024
Data for Calculations:		
pH	7.24	std units
Hardness	73.3	mg/L
Temperature	2.8	Celsius
Regulation 32 (5 CCR 1002-32) COARUA22A Standards		
Physical	Acute	Chronic
pH (std. units)	6.0 - 9.0	---
Temperature (°C)	< 21.7	< 17
Inorganic	Acute (mg/L)	Chronic (mg/L)
Ammonia	18.835	5.269
Boron	---	0.750
Chloride	---	---
Chlorine	0.019	0.011
Cyanide (Free)	0.005	---
Nitrate	100.000	---
Nitrite	---	0.050
Sulfide	---	0.002
Sulfate	---	---
Phosphorus	---	0.110
Metals	Acute (mg/L)	Chronic (mg/L)
Aluminum	11.00000	11.00000
Arsenic	0.34000	---
Arsenic (T)	---	0.10000
Cadmium	0.00134	0.00057
Chromium (III)	0.44179	0.05747
Chromium (III) (T)	---	0.10000
Hexavalent Chromium	0.01600	0.01100
Copper	0.01003	0.00687
Iron (T)	---	1.00000
Lead	0.04598	0.00179
Manganese	5.90300	3.67400
Mercury (T)	---	0.00001
Molybdenum (T)	---	0.15000
Nickel	0.36003	0.03999
Selenium	0.01840	0.00460
Silver	0.00119	0.00019
Uranium	0.01680	0.01680
Zinc	3.50000	0.60000

AG2.0 Results
Physical
7.24
2.8
Inorganic
<0.030
<0.0400
16.5
--
<0.0050
0.173
<0.050
<0.050
50.1
<0.050
Metals
0.186
<0.00100
<0.00100
<0.000100
<0.00600
<0.0110
<0.0050
0.00088
0.645
<0.00020
0.0186
<0.000093
<0.0080
<0.0100
<0.00100
<0.00008
0.00015
<0.0100

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

- Invalid results, past regulatory hold time

T2		
Sample Date:		4/16/2024
Data for Calculations:		
pH	6.81	std units
Hardness	352	mg/L
Temperature	11	Celsius
Regulation 32 (5 CCR 1002-32) COARUA23 Standards		
Physical	Acute	Chronic
pH (std. units)	6.5 - 9.0	---
Temperature (°C)	< 21.7	< 17
Inorganic	Acute (mg/L)	Chronic (mg/L)
Ammonia	27.864	6.278
Boron	---	0.750
Chloride	---	---
Chlorine	0.019	0.011
Cyanide (Free)	0.005	---
Nitrate	100.000	---
Nitrite	---	0.050
Sulfide	---	0.002
Sulfate	---	---
Phosphorus	---	0.110
Metals	Acute (mg/L)	Chronic (mg/L)
Arsenic	0.34000	---
Arsenic (T)	---	0.10000
Cadmium	0.00581	0.00185
Chromium (III)	1.59705	0.20775
Chromium (III) (T)	---	0.10000
Hexavalent Chromium	0.01600	0.01100
Copper	0.04399	0.02625
Iron (T)	---	1.00000
Lead	0.24622	0.00959
Manganese	4.54042	2.50859
Mercury (T)	---	0.00001
Molybdenum (T)	---	0.15000
Nickel	1.35781	0.15081
Selenium	0.01840	0.00460
Silver	0.01768	0.00279
Uranium	0.01680	0.01680
Zinc	0.50252	0.38061

T2 Results
Physical
6.81
11
Inorganic
0.035
0.0621
24.5
--
<0.0050
0.644
0.071
<0.100
330
0.077
Metals
0.00121
0.00124
<0.000100
<0.0110
<0.0160
<0.0100
0.00042
0.406
<0.00020
1.79
<0.000093
<0.0080
<0.0100
<0.00100
<0.00008
<0.000100
0.0263

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

- Invalid results, past regulatory hold time

GV-02		
Sample Date:		4/16/2024
Data for Calculations:		
pH	6.3	std units
Hardness*	152	mg/L
Temperature	0.4	Celsius
Regulation 32 (5 CCR 1002-32) COARUA24 Standards		
Physical	Acute	Chronic
pH (std. units)	6.5 - 9.0	---
Temperature (°C)	< 21.7	< 17
Inorganic	Acute (mg/L)	Chronic (mg/L)
Ammonia	34.70523	6.81574
Boron	---	0.75000
Chloride	---	250.00000
Chlorine	0.019	0.01100
Cyanide (Free)	0.005	---
Nitrate	10	---
Nitrite	---	0.05000
Sulfide	---	0.00200
Sulfate	---	250.00000
Phosphorus	---	0.11000
Metals	Acute (mg/L)	Chronic (mg/L)
Arsenic	0.34000	---
Arsenic (T)	---	0.00300
Cadmium	0.00265	0.00098
Cadmium (T)	0.00500	---
Chromium (III)	---	0.10443
Chromium (III) (T)	0.05000	---
Hexavalent Chromium	0.01600	0.01100
Copper	0.01994	0.01281
Iron	---	0.30000
Iron (T)	---	1.00000
Lead	0.10156	0.00396
Lead (T)	0.05000	---
Manganese	3.43254	1.89648
Mercury (T)	---	0.00001
Molybdenum (T)	---	0.15000
Nickel	0.66728	0.07411
Nickel (T)	---	0.10000
Selenium	0.01840	0.00460
Silver	0.00417	0.00015
Uranium	0.01680	0.01680
Zinc	0.23415	0.17735

GV-02 Results	
Physical	
	6.3
	0.4
Inorganic	
	0.088
	<0.0400
	11.7
	--
	<0.0050
	0.825
	<0.050
	<0.100
	164
	0.076
Metals	
	<0.00200
	<0.00100
	0.00288
	0.00317
	<0.0120
	<0.0160
	<0.0100
	0.00152
	0.155
	0.194
	<0.00040
	<0.00020
	3.21
	<0.000093
	<0.0080
	0.0375
	0.0323
	<0.00200
	<0.000160
	<0.000200
	0.748

* Hardness exceeds maximum value of 400 mg/L for use in equations per Colorado Regulation 32.

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

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

GV-03		
Sample Date:		4/16/2024
Data for Calculations:		
pH	6.71	std units
Hardness	69.1	mg/L
Temperature	1.2	Celsius
Regulation 32 (5 CCR 1002-32) COARUA24 Standards		
Physical	Acute	Chronic
pH (std. units)	6.5 - 9.0	---
Temperature (°C)	< 21.7	< 17
Inorganic	Acute (mg/L)	Chronic (mg/L)
Ammonia	6.429	29.598
Boron	0.750	---
Chloride	250.000	---
Chlorine	0.011	0.019
Cyanide (Free)	---	0.005
Nitrate	---	10.000
Nitrite	0.050	---
Sulfide	0.002	---
Sulfate	250.000	---
Phosphorus	0.110	---
Metals	Acute (mg/L)	Chronic (mg/L)
Arsenic	0.34000	---
Arsenic (T)	---	0.00300
Cadmium	0.00127	0.00054
Cadmium (T)	0.00500	---
Chromium (III)	---	0.05476
Chromium (III) (T)	0.05000	---
Hexavalent Chromium	0.01600	0.01100
Copper	0.00949	0.00653
Iron	---	0.30000
Iron (T)	---	1.00000
Lead	0.04309	0.00168
Lead (T)	0.05000	---
Manganese	2.63981	1.45850
Mercury (T)	---	0.00001
Molybdenum (T)	---	0.15000
Nickel	0.34250	0.03804
Nickel (T)	---	0.10000
Selenium	0.01840	0.00460
Silver	0.00107	0.00004
Uranium	0.01680	0.01680
Zinc	0.11433	0.08659

GV-03 Results
Physical
6.71
1.2
Inorganic
0.105
<0.0400
6.72
--
<0.0050
0.455
<0.050
<0.100
71.4
0.186
Metals
<0.00100
<0.00100
0.000746
0.000852
<0.0110
<0.0160
<0.0100
0.00212
<0.100
0.364
<0.00020
0.00051
0.645
<0.000093
<0.0080
<0.0100
<0.0100
<0.00100
<0.00008
<0.000100
0.107

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

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

GV-06		
Sample Date:		4/15/2024
Data for Calculations:		
pH	6.57	std units
Hardness	76.4	mg/L
Temperature	2.1	Celsius
Regulation 32 (5 CCR 1002-32) COARUA24 Standards		
Physical	Acute	Chronic
pH (std. units)	6.5 - 9.0	---
Temperature (°C)	< 21.7	< 17
Inorganic	Acute (mg/L)	Chronic (mg/L)
Ammonia	6.598	31.701
Boron	0.750	---
Chloride	250.000	---
Chlorine	0.011	0.019
Cyanide (Free)	---	0.005
Nitrate	---	10.000
Nitrite	0.050	---
Sulfide	0.002	---
Sulfate	250.000	---
Phosphorus	0.110	---
Metals	Acute (mg/L)	Chronic (mg/L)
Arsenic	0.34000	---
Arsenic (T)	---	0.00300
Cadmium	0.00139	0.00059
Cadmium (T)	0.00500	---
Chromium (III)	---	0.05945
Chromium (III) (T)	0.05000	---
Hexavalent Chromium	0.01600	0.01100
Copper	0.01043	0.00712
Iron	---	0.30000
Iron (T)	---	1.00000
Lead	0.04812	0.00188
Lead (T)	0.05000	---
Manganese	2.72961	1.50812
Mercury (T)	---	0.00001
Molybdenum (T)	---	0.15000
Nickel	0.37287	0.04141
Nickel (T)	---	0.10000
Selenium	0.01840	0.00460
Silver	0.00128	0.00005
Uranium	0.01680	0.01680
Zinc	0.12526	0.09487

GV-06 Results

Physical

6.57

2.1

Inorganic

0.082

<0.0400

5.13

-

<0.0050

0.722

<0.050

<0.040

18

0.166

Metals

<0.00100

<0.00100

<0.000100

<0.000100

<0.0110

<0.0160

<0.0100

0.00088

0.74

2.19

<0.00020

0.00091

1.89

0.00000536

<0.0080

<0.0100

<0.0100

<0.00100

<0.000061

0.000533

<0.0100

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

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

- Invalid results, past regulatory hold time

GV-02		
Sample Date:		5/29/2024
Data for Calculations:		
pH	4.7	std units
Hardness*	976	mg/L
Temperature	11.9	Celsius
Regulation 32 (5 CCR 1002-32) COARUA24 Standards		
Physical	Acute	Chronic
pH (std. units)	6.5 - 9.0	---
Temperature (°C)	< 21.7	< 17
Inorganic	Acute (mg/L)	Chronic (mg/L)
Ammonia	7.080839833	38.8790425
Boron	0.750	---
Chloride	250.000	---
Chlorine	0.011	0.019
Cyanide (Free)	---	0.005
Nitrate	---	10.000
Nitrite	0.050	---
Sulfide	0.002	---
Sulfate	250.000	---
Phosphorus	0.110	---
Metals	Acute (mg/L)	Chronic (mg/L)
Arsenic	0.34000	---
Arsenic (T)	---	0.00300
Cadmium	0.01500	0.00396
Cadmium (T)	0.00500	---
Chromium (III)	---	0.47893
Chromium (III) (T)	0.05000	---
Hexavalent Chromium	0.01600	0.01100
Copper	0.11498	0.06275
Iron	---	0.30000
Iron (T)	---	1.00000
Lead	0.68130	0.02655
Lead (T)	0.05000	---
Manganese	6.37718	3.52340
Mercury (T)	---	0.00001
Molybdenum (T)	---	0.15000
Nickel	3.21766	0.35738
Nickel (T)	---	0.10000
Selenium	0.01840	0.00460
Silver	0.10215	0.00378
Uranium	0.01680	0.01680
Zinc	1.27038	0.96220

GV-02 Results
Physical
4.7
11.9
Inorganic
<0.030
<0.0400
26.8
--
<0.0050
<0.050
<0.050
<0.100
1,110
<0.050
Metals
<0.00200
<0.00100
0.0311
0.0291
<0.00700
<0.0110
<0.0050
0.00193
<0.100
<0.100
<0.00040
<0.00020
19.8
<0.000093
<0.0080
0.443
0.438
<0.00200
<0.000160
0.000328
8.58

* Hardness exceeds maximum value of 400 mg/L for use in equations per Colorado Regulation 32.

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

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

GV-06		
Sample Date:		5/29/2024
Data for Calculations:		
pH	7.24	std units
Hardness	219	mg/L
Temperature	14.4	Celsius
Regulation 32 (5 CCR 1002-32) COARUA24 Standards		
Physical	Acute	Chronic
pH (std. units)	6.5 - 9.0	---
Temperature (°C)	< 21.7	< 17
Inorganic	Acute (mg/L)	Chronic (mg/L)
Ammonia	5.268576531	18.83545074
Boron	0.750	---
Chloride	250.000	---
Chlorine	0.011	0.019
Cyanide (Free)	---	0.005
Nitrate	---	10.000
Nitrite	0.050	---
Sulfide	0.002	---
Sulfate	250.000	---
Phosphorus	0.110	---
Metals	Acute (mg/L)	Chronic (mg/L)
Arsenic	0.34000	---
Arsenic (T)	---	0.00300
Cadmium	0.00373	0.00129
Cadmium (T)	0.00500	---
Chromium (III)	---	0.14084
Chromium (III) (T)	0.05000	---
Hexavalent Chromium	0.01600	0.01100
Copper	0.02813	0.01750
Iron	---	0.30000
Iron (T)	---	1.00000
Lead	0.14989	0.00584
Lead (T)	0.05000	---
Manganese	3.87655	2.14180
Mercury (T)	---	0.00001
Molybdenum (T)	---	0.15000
Nickel	0.90883	0.10094
Nickel (T)	---	0.10000
Selenium	0.01840	0.00460
Silver	0.00782	0.00029
Uranium	0.01680	0.01680
Zinc	0.32638	0.24721

GV-06 Results
Physical
7.24
14.4
Inorganic
<0.030
<0.0400
6.87
-
<0.0050
<0.050
<0.050
<0.050
181
<0.050
Metals
<0.00100
<0.00100
<0.000100
<0.000100
<0.0110
<0.0160
<0.0050
<0.00040
0.454
1.33
<0.00020
<0.00020
1.02
<0.000093
<0.0080
<0.0100
<0.0100
<0.00100
<0.00008
0.000349
<0.0100

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

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

- Invalid results, past regulatory hold time

GV-06		
Sample Date:		6/24/2024
Data for Calculations:		
pH	7.15	std units
Hardness	150	mg/L
Temperature	11.4	Celsius
Regulation 32 (5 CCR 1002-32) COARUA24 Standards		
Physical	Acute	Chronic
pH (std. units)	6.5 - 9.0	---
Temperature (°C)	< 21.7	< 17
Inorganic	Acute (mg/L)	Chronic (mg/L)
Ammonia	5.533	20.840
Boron	0.750	---
Chloride	250.000	---
Chlorine	0.011	0.019
Cyanide (Free)	---	0.005
Nitrate	---	10.000
Nitrite	0.050	---
Sulfide	0.002	---
Sulfate	250.000	---
Phosphorus	0.110	---
Metals	Acute (mg/L)	Chronic (mg/L)
Arsenic	0.34000	---
Arsenic (T)	---	0.00300
Cadmium	0.00262	0.00097
Cadmium (T)	0.00500	---
Chromium (III)	---	0.10331
Chromium (III) (T)	0.05000	---
Hexavalent Chromium	0.01600	0.01100
Copper	0.01969	0.01266
Iron	---	0.30000
Iron (T)	---	1.00000
Lead	0.10013	0.00390
Lead (T)	0.05000	---
Manganese	3.41742	1.88813
Mercury (T)	---	0.00001
Molybdenum (T)	---	0.15000
Nickel	0.65984	0.07329
Nickel (T)	---	0.10000
Selenium	0.01840	0.00460
Silver	0.00408	0.00015
Uranium	0.01680	0.01680
Zinc	0.23135	0.17523

GV-06 Results
Physical
7.15
11.4
Inorganic
0.031
<0.0400
5.5
--
<0.0050
0.098
<0.050
<0.050
81.9
0.114
Metals
<0.00100
0.00105
<0.000100
0.000144
<0.00600
<0.0110
<0.0050
0.00184
0.391
3.07
<0.00020
0.00098
0.555
<0.000093
<0.0080
<0.0100
<0.0100
<0.00100
<0.00008
0.00141
<0.0100

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

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

- Invalid results, past regulatory hold time



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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 second quarter, 2024 CC&V submitted duplicate samples for monitoring well GVMW-26B, collected on 4/3/2024 and 6/5/2024, monitoring well GVMW-7A on 4/4/2024, monitoring well GVMW-25 collected on 4/10/2024 and 5/7/2024. 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 CC&V used the reporting limit in the RPD calculation for the sample whose analytical value was below the reporting limit. 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 April	GVMW-26B Duplicate April	Relative Percent Difference (RPD, %)
Barium - Dissolved (mg/L)	0.12	0.117	2.53
Chloride - Total (mg/L)	1.87	1.92	2.64
Fluoride - Total F (mg/L)	0.216	0.216	0.00
Nitrate as Nitrogen (mg/L)	0.578	0.584	1.03
Nitrite + Nitrate as Nitrogen (mg/L)	0.578	0.584	1.03
Sodium - Dissolved (mg/L)	10.1	10.2	0.99
Sulfate - Total (mg/L)	21.7	21.6	0.46
Total Dissolved Solids (mg/L)	102	104	1.94
Uranium - Dissolved (mg/L)	0.000112	0.000101	10.33

Analyte	GVMW-26B June	GVMW-26B Duplicate June	Relative Percent Difference (RPD, %)
Barium - Dissolved (mg/L)	0.104	0.106	1.90
Chloride - Total (mg/L)	1.79	1.79	0.00
Fluoride - Total F (mg/L)	0.215	0.185	15.00
Nitrate as Nitrogen (mg/L)	0.663	0.664	0.15
Nitrite + Nitrate as Nitrogen (mg/L)	0.663	0.664	0.15
Sodium - Dissolved (mg/L)	9.74	9.68	0.62
Sulfate - Total (mg/L)	21.4	21.2	0.94
Total Dissolved Solids (mg/L)	90	78	14.29

Analyte	GVMW-7A	GVMW-7A Duplicate	Relative Percent Difference (RPD, %)
Barium - Dissolved (mg/L)	0.159	0.16	0.63
Chloride - Total (mg/L)	5.99	5.84	2.54
Fluoride - Total F (mg/L)	0.928	0.916	1.30
Iron - Dissolved (mg/L)	1.1	1.1	0.00
Manganese - Dissolved (mg/L)	0.22	0.231	4.88
Sodium - Dissolved (mg/L)	9.19	9.41	2.37
Sulfate - Total (mg/L)	18.1	18	0.55
Total Dissolved Solids (mg/L)	196	194	1.03
Uranium - Dissolved (mg/L)	0.0041	0.00406	0.98

Analyte	GVMW-25 April	GVMW-25 Duplicate April	Relative Percent Difference (RPD, %)
Aluminium - Dissolved (mg/L)	320	322	0.62
Arsenic - Dissolved (mg/L)	0.00953	0.00904	5.28
Barium - Dissolved (mg/L)	0.0127	0.012	5.67
Beryllium - Dissolved (mg/L)	0.243	0.265	8.66
Cadmium - Dissolved (mg/L)	0.767	0.779	1.55
Chloride - Total (mg/L)	20.8	20.8	0.00
Chromium - Dissolved (mg/L)	0.0217	0.0232	6.68
Cobalt - Dissolved (mg/L)	0.816	0.834	2.18
Copper - Dissolved (mg/L)	1.19	1.19	0.00
Fluoride - Total F (mg/L)	8.81	9.15	3.79
Iron - Dissolved (mg/L)	0.303	0.297	2.00
Lead - Dissolved (mg/L)	0.0081	0.0087	7.14
Lithium - Dissolved (mg/L)	0.196	0.198	1.02
Manganese - Dissolved (mg/L)	122	119	2.49
Nickel - Dissolved (mg/L)	1.4	1.42	1.42
Nitrate as Nitrogen (mg/L)	2.75	2.77	0.72
Nitrite + Nitrate as Nitrogen (mg/L)	2.75	2.77	0.72
Selenium - Dissolved (mg/L)	0.0278	0.0284	2.14
Sodium - Dissolved (mg/L)	38.9	38.9	0.00
Sulfate - Total (mg/L)	4430	4380	1.14
Total Dissolved Solids (mg/L)	7480	6300	17.13
Uranium - Dissolved (mg/L)	1.25	1.21	3.25
Vanadium - Dissolved	0.0119	0.0097	20.37
Zinc - Dissolved (mg/L)	28.6	29.3	2.42

Analyte	GVMW-25 May	GVMW-25 Duplicate May	Relative Percent Difference (RPD, %)
Aluminium - Dissolved (mg/L)	214	213	0.47
Barium - Dissolved (mg/L)	0.0099	0.0097	2.04
Beryllium - Dissolved (mg/L)	0.225	0.222	1.34
Cadmium - Dissolved (mg/L)	0.523	0.52	0.58
Chloride - Total (mg/L)	30.6	31.2	1.94
Chromium - Dissolved (mg/L)	0.0163	0.0163	0.00
Cobalt - Dissolved (mg/L)	0.501	0.491	2.02
Copper - Dissolved (mg/L)	0.722	0.719	0.42
Fluoride - Total F (mg/L)	9.17	9	1.87
Iron - Dissolved (mg/L)	0.375	0.378	0.80
Lithium - Dissolved (mg/L)	0.094	0.097	3.14
Manganese - Dissolved (mg/L)	74.5	73.9	0.81
Nickel - Dissolved (mg/L)	0.897	0.89	0.78
Nitrate as Nitrogen (mg/L)	2.93	2.94	0.34
Nitrite + Nitrate as Nitrogen (mg/L)	2.93	2.94	0.34
Sodium - Dissolved (mg/L)	36.3	36.1	0.55
Sulfate - Total (mg/L)	3340	3300	1.20
Total Dissolved Solids (mg/L)	4140	4270	3.09
Uranium - Dissolved (mg/L)	0.663	0.601	9.81
Zinc - Dissolved (mg/L)	19.1	19	0.52



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Attachment 5

Graphs

