Newmont
NORTH AMERICA

Cripple Creek & Victor
Gold Mining Company
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SENT VIA ELECTRONIC MAIL

April 30, 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: 1st Quarter 2024
Surface Water Monitoring Data: 1st 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 compliance locations for the 1st quarter, (January through March) 2024.

METHODOLOGY

In the 1st quarter (Q1), 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 locations (groundwater and surface water). Monitoring locations are displayed on Locations 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 and PGMW-3 had insufficient water recharge to sample;
- 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 sample;
- Arequa Gulch monitor well CRMW-3B and CRMW-3C were dry, CRMW-3A and ESPMW-1 had insufficient water to collect a sample, and CRMW-5A, CRMW-5B, CRMW-5C, CRMW-5D, and AG-2.0 were inaccessible due to road conditions;
- Wilson Creek monitoring locations WCMW-06 and WCSW-01 were inaccessible due to road conditions;
- Vindicator Valley monitoring location T-2 had no observed flowing water and monitoring well Vin-2B was frozen; and
- Grassy Valley surface monitoring locations GV-02, GV-03, and GV-06 had no observed flowing

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water during the quarter.

Groundwater Level Measurements

Prior to the collection of groundwater samples, depth to groundwater was measured using a Geotech™ water level indicator. The water level indicator was decontaminated with Alconox™ soap and rinsed with de-ionized water prior to each measurement to prevent cross contamination.

Groundwater Sampling

CC&V utilized both dedicated pumps, deployable pumps, and disposable bailers to purge water and collect groundwater samples depending on the depth of the wells and/or locations. Samples were collecting 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 eleven quality assurance/quality control (QA/QC) samples in Q1 2024. Of the QA/QC samples, five duplicate samples were collected in Q1; one from monitoring well WCMW-3 was collected on 1/10/2024; a second duplicate sample was collected from GVMW-22B on 1/18/2024; and three duplicates were collected as a part of the monthly sampling schedule from GVMW-7A on 1/9/2024, GVMW-15B on 2/20/2024, and GVMW-15B on 3/6/2024. 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 Grassy Valley monthly sampling events. These rinse blanks were collected on 1/9/2024 (x2), 1/24/2024, 2/20/2024, and 3/6/2024. One trip blank sample was also collected on 1/9/2024. 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 1st quarter sampling event are included as Attachment 1 and field collected data is presented on the sampling logs (Attachment 2).

No surface water samples were collected during the 1st quarter of 2024 due to the cold weather

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conditions and the lack of flowing water at each location throughout the quarter.

QA/QC Sample Results

Results for the Quality Assurance/Quality Control (QA/QC) samples are included in the QA/QC section of Attachment 1. Relative percent difference (RPD) calculations completed for the duplicate monitoring well samples are included within the QA/QC section. All the RPD calculations were less than 20% except one outlier (25.35% for ammonia in the GVMW-15B March duplicate sample). This outlier is for a constituent of very low concentrations. RPD calculations are presented in Attachment 3.

DISCUSSION

Graphs of the trends in various analytes at the compliance locations are presented in Attachment 4.

Poverty Gulch

Exceedances recorded in the Poverty Gulch drainage were from monitoring well PGMW-5. PGMW-5 is a new well and the water quality baseline for this well is still being established. Monitoring well PGMW-5 exhibited elevated concentrations of aluminum, manganese, and pH compared to current site-wide NPL's and barium, beryllium, cadmium, cobalt, copper, fluoride, nickel, sulfate, uranium, and zinc compared to the table value standards.

Maize Gulch

Within the Maize Gulch drainage, samples collected from monitoring well SGMW-6B exceeded concentrations of beryllium, fluoride, and sulfate as compared to the table value standards and manganese and pH as compared to the current site-wide NPL's. Data from this monitoring period is consistent with previously recorded concentrations.

Arequa Gulch

No samples were collected from the Arequa Gulch monitoring wells during this reporting period as they were dry, there was insufficient recharge or were inaccessible due to road conditions. CC&V anticipates higher water levels after the spring snowmelt in Q2 2024 that will improve sample collection. Additionally, access to the CRMW-5 series wells is anticipated in Q2 for monitoring.

Wilson Creek

Monitoring well WCMW-3 (Wilson Creek drainage) was compliant with applicable standards.

Vindicator Valley

First quarter 2024 Vindicator Valley concentrations for VIN-2B are generally consistent with previously reported concentrations and compliant with applicable well specific NPL's and the table value standards.

Grassy Valley

Q1 exceedances recorded in the Grassy Valley drainage were from monitoring wells GVMW-8B, GVMW-22A, and GVMW-25. Neither of the aforementioned monitoring locations are points of compliance. Monitoring well GVMW-8B and GVMW-22A exceeded applicable standard 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. Grassy Valley exceedances were reported to the Division in the monthly grassy valley report updates. The exceedances at GVMW-

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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. There have been no exceedances observed at the new point of compliance wells GVMW-26A or GVMW-26B during Q1.

Reported Exceedances

As reported on April 15, 2024, CC&V collected first quarter groundwater compliance samples from monitoring well PGMW-5 on March 26, 2024. Upon review of received analytical reports, CC&V determined that the groundwater sample collected at this well exceeded the established Numeric Protection Levels for dissolved aluminum, dissolved cadmium, dissolved copper, total fluoride, dissolved manganese, dissolved nickel, field pH (less than the lower limit), dissolved zinc, and the Table Value Standards for dissolved beryllium, dissolved cobalt, sulfate, and dissolved uranium.

Location	Sample Date	Parameter	Value (mg/L)	NPL (mg/L)	Table Value Standard (mg/L)
PGMW-5	3/26/2024	Aluminum - Dissolved	71.4	7	
PGMW-5	3/26/2024	Beryllium - Dissolved	0.00891		0.004
PGMW-5	3/26/2024	Cadmium - Dissolved	0.0473	0.005	
PGMW-5	3/26/2024	Cobalt - Dissolved	0.191		0.05
PGMW-5	3/26/2024	Copper - Dissolved	1.55	0.2	
PGMW-5	3/26/2024	Fluoride - Total	6.0	2	
PGMW-5	3/26/2024	Manganese - Dissolved	51	3	
PGMW-5	3/26/2024	Nickel - Dissolved	0.368	0.2	
PGMW-5	3/26/2024	pH Field	3.61	6.0 - 8.5	
PGMW-5	3/26/2024	Sulfate	924		250
PGMW-5	3/26/2024	Uranium - Dissolved	0.0378		0.03
PGMW-5	3/26/2024	Zinc - Dissolved	6.58	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:
Katie Blake
5A3D013B629844B...

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

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EC: P. Lennberg
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J. Gonzalez
J. Adams

File: "C:\Users\19012214\Newmont USA Limited\CC&V – S&ER Environmental - Environmental Compliance\Water\DRMS\Quarterly\Q1- 2024|Final "

Attachments:

Figures: Location Maps

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

Attachment 1: Laboratory Analytical Reports
Attachment 2: Filed Sheets
Attachment 3: RPD Calculations
Attachment 4 : Graphs

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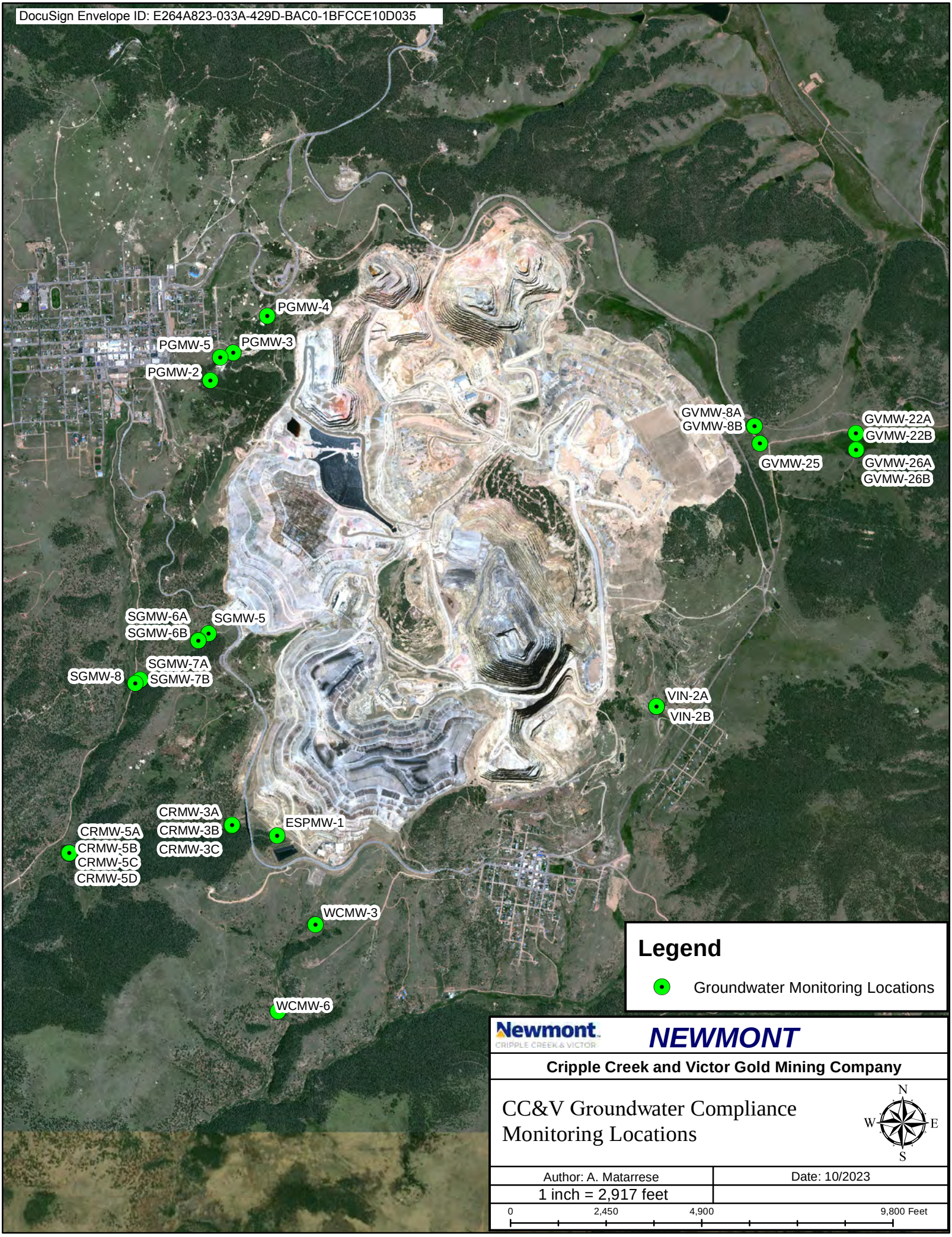
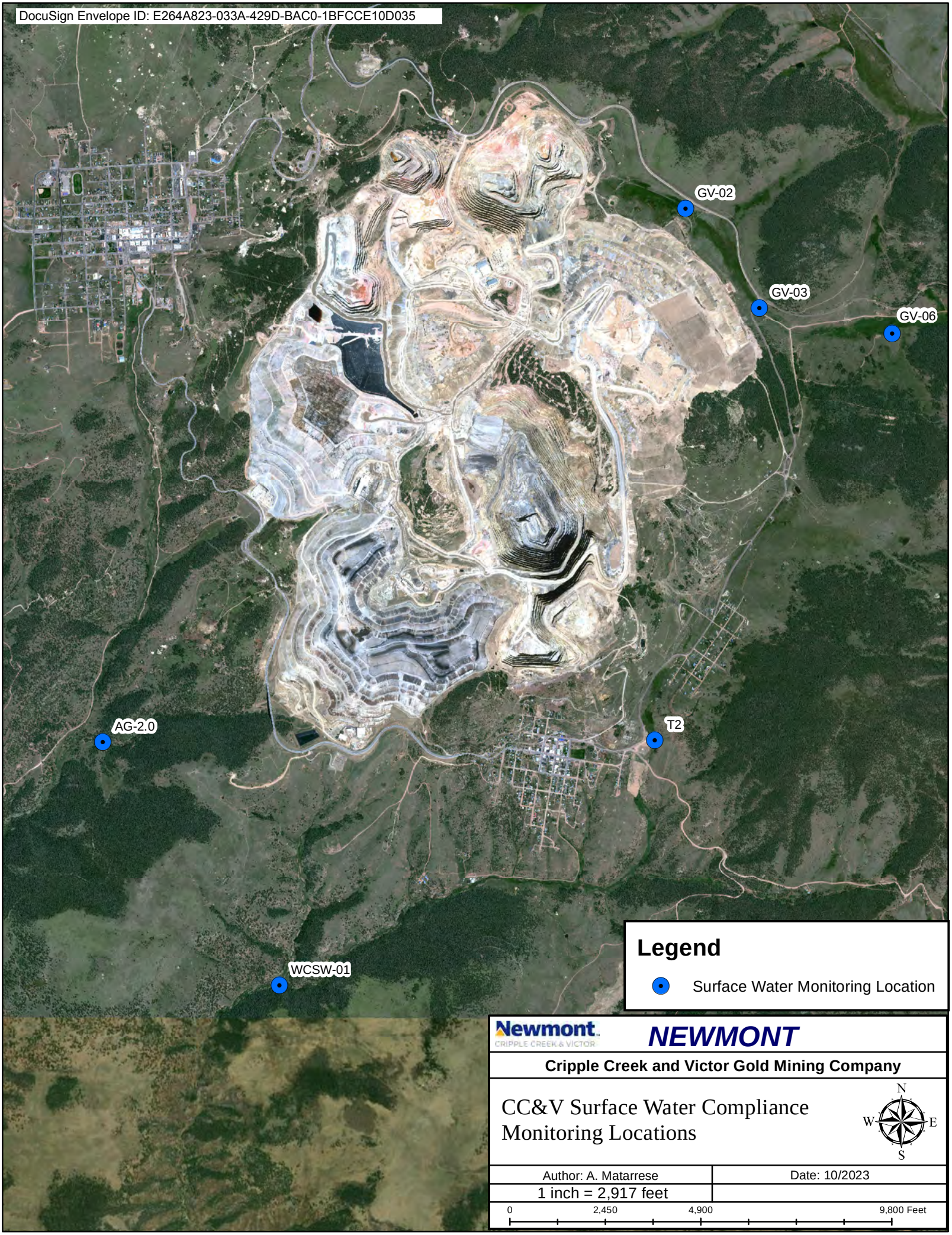
Figures





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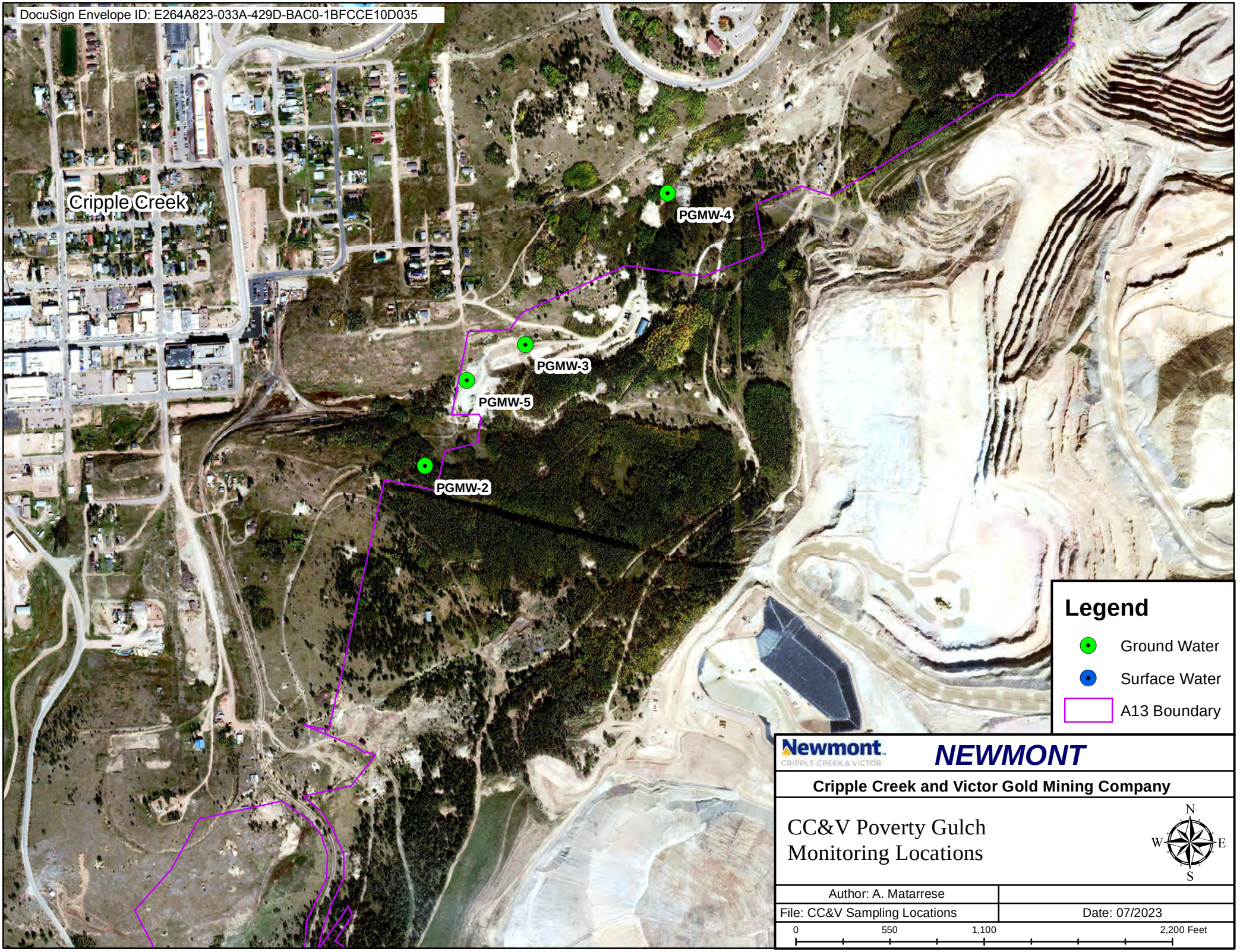
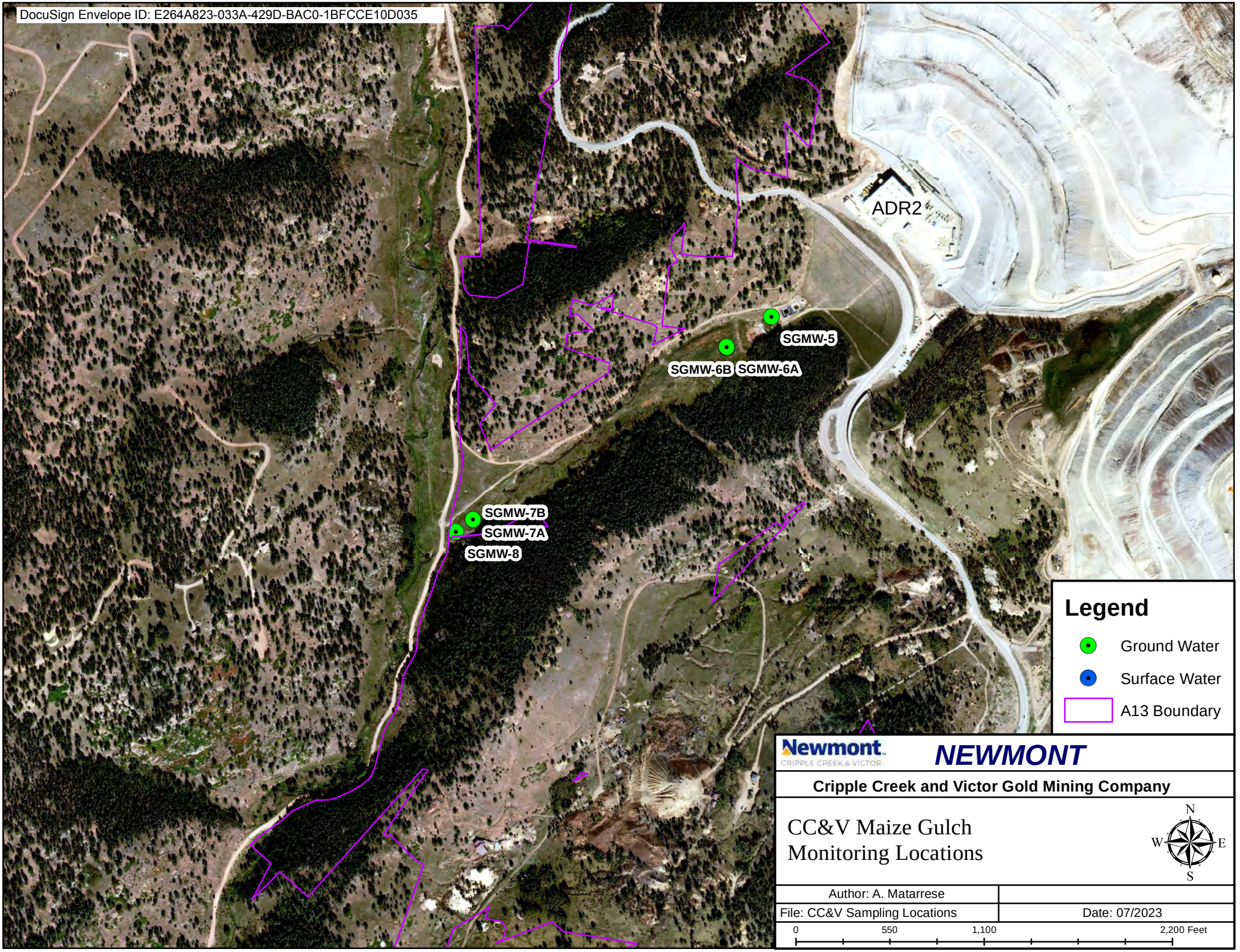
CC&V Surface Water Compliance Monitoring Locations

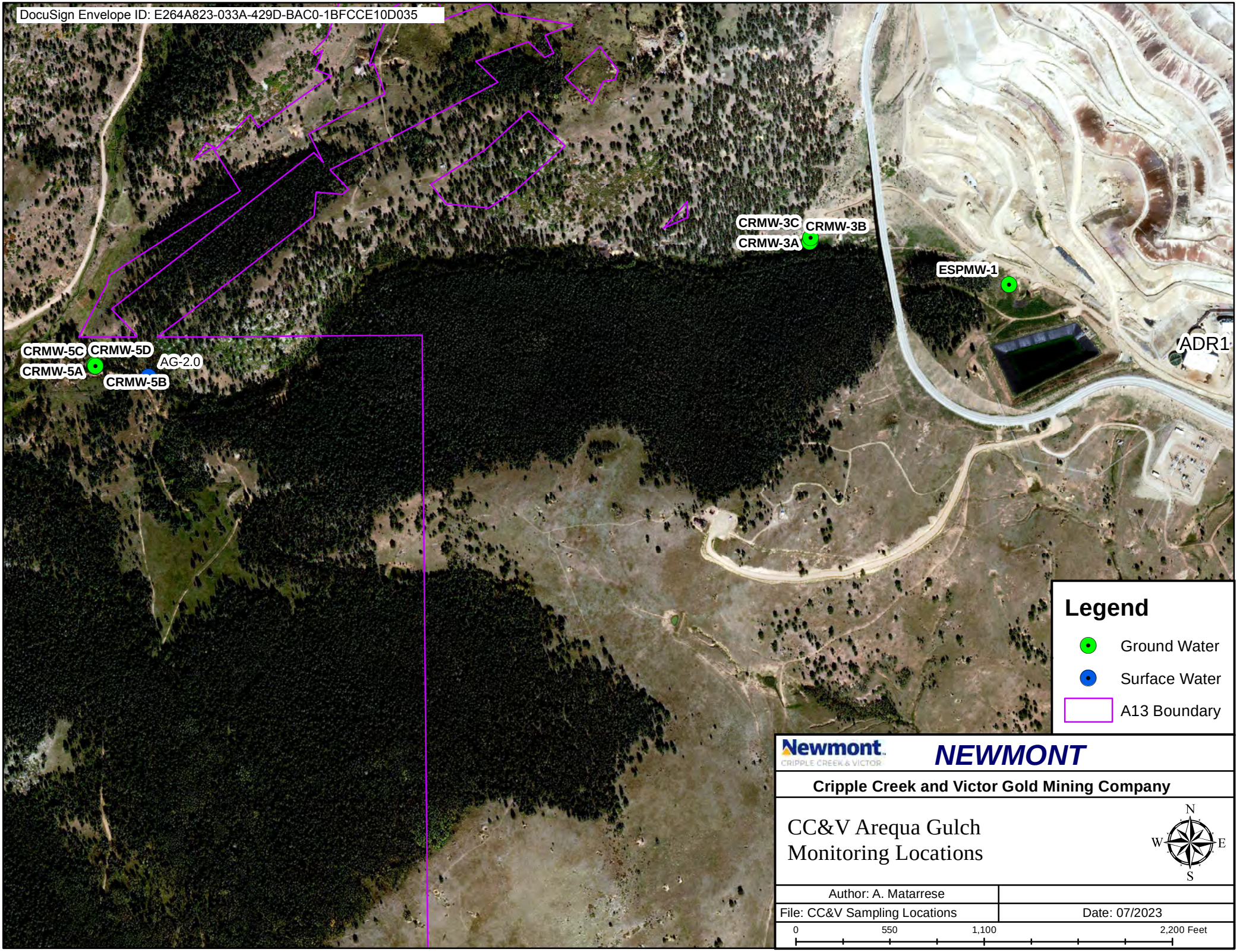
N W E S

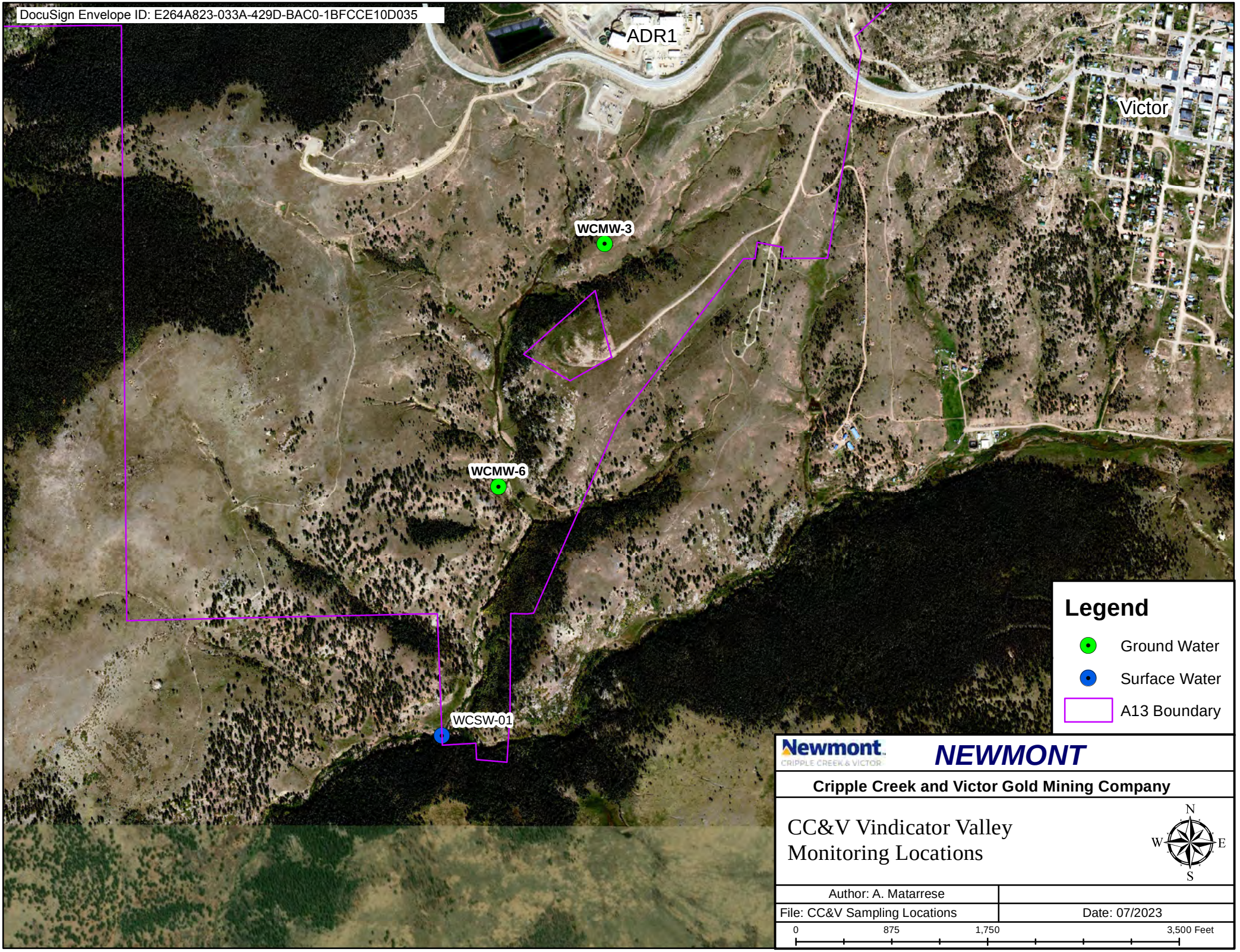
Author: A. Matarrese	Date: 10/2023
1 inch = 2,917 feet	

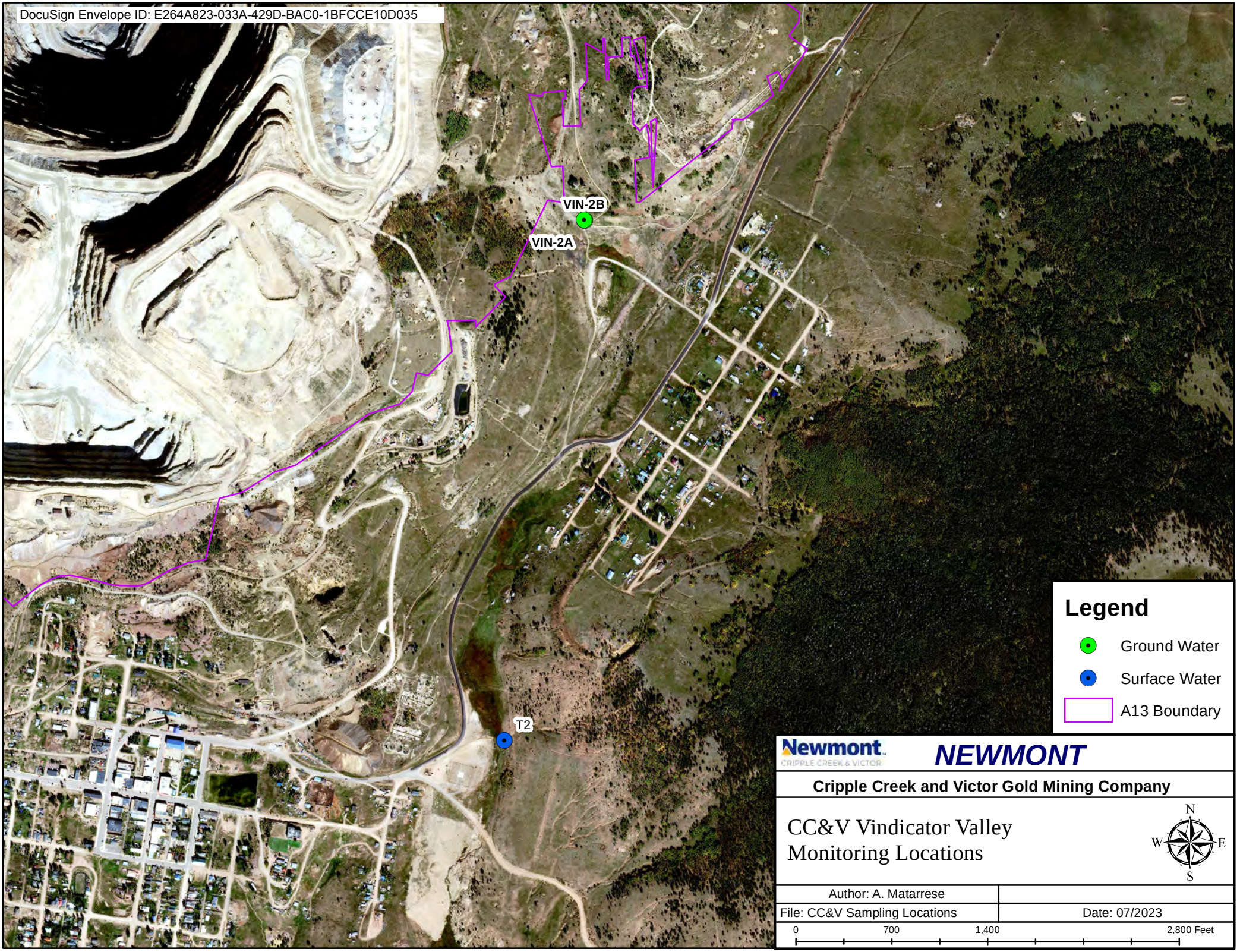
0 2,450 4,900 9,800 Feet

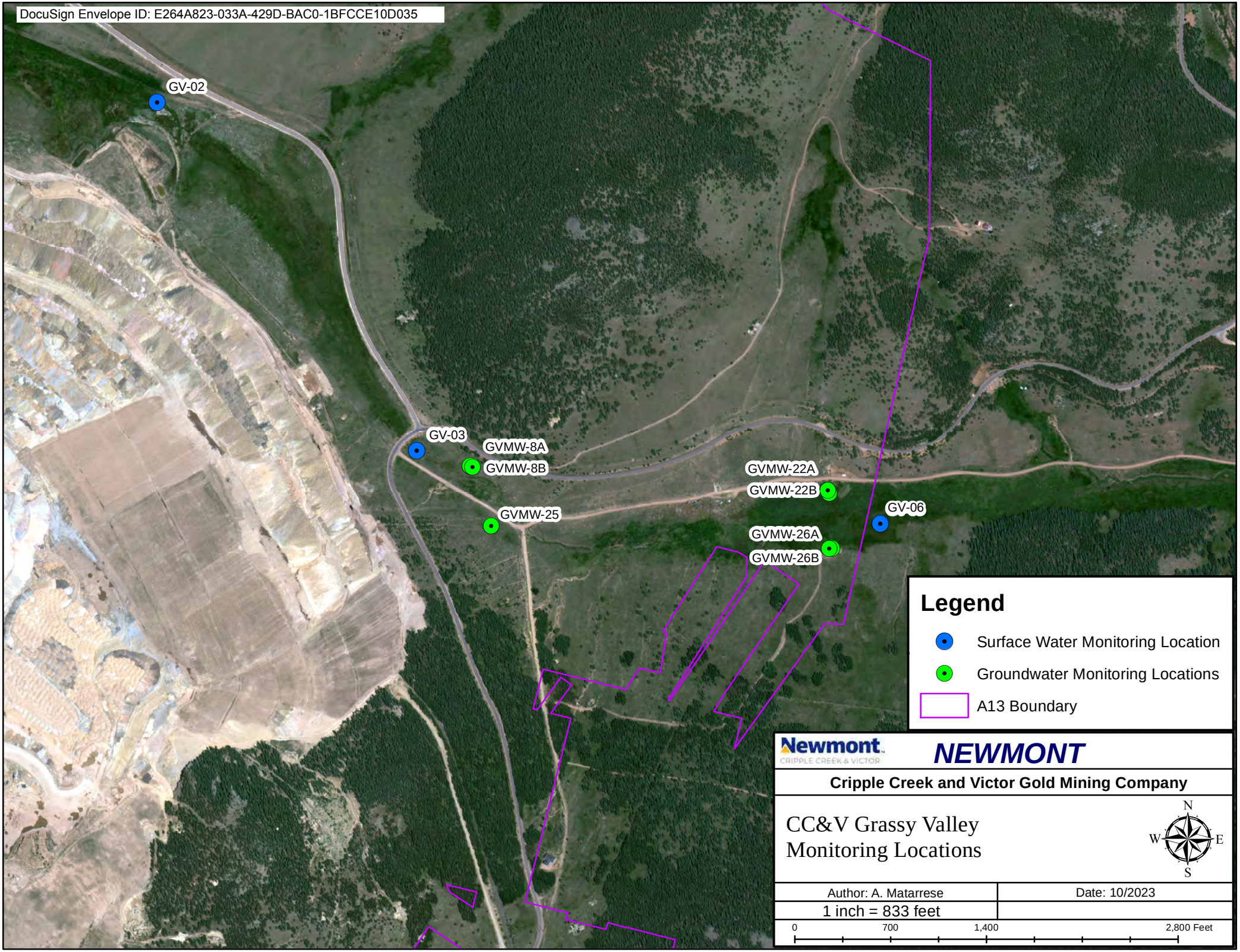












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Tables

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

Monitoring Location	Date Monitored	Status	Comments
Poverty Gulch			
PGMW-2	1/8/2024	Dry	dry at 218' BTOC
PGMW-3	3/28/2024	NS-IW	Well was purged dry and insufficent water returned after 24 hours to collect a sample
PGMW-4	1/8/2024	Dry	dry at 39' BTOC
PGMW-5	3/26/2024	Sampled	
Maize Gulch			
SGMW-5	1/8/2024	Dry	dry at 256' BTOC
SGMW-6A	1/8/2024	Dry	dry at 400' BTOC
SGMW-6B	1/24/2024	Sampled	
SGMW-7A	1/8/2024	Dry	dry at 400' BTOC
SGMW-7B	1/8/2024	Dry	dry at 60' BTOC
SGMW-8	3/27/2024	NS-IW	Well was purged dry and insufficent water returned after 24 hours to collect a sample
Arequa Gulch			
CRMW-3A	1/10/2024 & 3/12/2024	NS-IW	Well was purged dry and insufficent water returned after 24 hours to collect a sample
CRMW-3B	1/23/2024 & 3/12/2024	Dry	pump ran for 60 minutes and no water was purged, assumed to be dry
CRMW-3C	1/23/2024 & 3/12/2024	Dry	pump ran for 60 minutes and no water was purged, assumed to be dry
CRMW-5A	1/8/2024 & 3/13/2024	Inaccessible	Road/weather conditions prevented access
CRMW-5B	1/8/2024 & 3/13/2024	Inaccessible	Road/weather conditions prevented access
CRMW-5C	1/8/2024 & 3/13/2024	Inaccessible	Road/weather conditions prevented access
CRMW-5D	1/8/2024 & 3/13/2024	Inaccessible	Road/weather conditions prevented access
ESPMW-1	1/10/2024	Dry	dry at 220' BOTC
AG-2.0	1/8/2024 & 3/13/2024	Inaccessible	Road/weather conditions prevented access
Wilson Creek			
WCMW-3	1/10/2024	Sampled	
WCMW-6	1/8/2024 & 3/13/2024	Inaccessible	Road/weather conditions prevented access
WCSW-01	1/8/2024 & 3/13/2024	Inaccessible	Road/weather conditions prevented access
Vindicator Valley			
VIN-2A	3/25/2024	Frozen	No sample collected, tubing and well frozen
VIN-2B	1/24/2024	Sampled	
T-2	1/8/2024	No flowwing water	
Grassy Valley			
GVMW-8A*	1/18/2024, 2/28/2024, 3/26/2024	Sampled	
GVMW-8B*	1/18/2024 & 3/27/2024	Sampled	
GVMW-22A*	1/18/2024 & 3/12/2024	Sampled	
GVMW-22B*	1/18/2024, 2/28/2024, 3/20/2024	Sampled	
GVMW-25*	1/9/2024, 2/28/2024, 3/6/2024	Sampled	
GVMW-26A*	2/26/2024 & 3/20/2024	Sampled	
GVMW-26B*	2/26/2024 & 3/20/2024	Sampled	
GV-02*	1/8/2024, 2/5/2024, 3/4/2024	No flowing water	
GV-03*	1/8/2024, 2/5/2024, 3/4/2024	No flowing water	
GV-06*	1/8/2024, 2/5/2024, 3/4/2024	No Flowing water	Monitored weekly starting 3/4 through 3/28

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

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

ANALYTE	Reg 41 TVS	Site-Wide NPL	UNIT	Well I.D.	PGMW-5	SGMW-6B	WCMW-3*	VIN-2B*	GVMW-8A*	GVMW-8B	GVMW-22A	GVMW-22B	GVMW-25	GVMW-26A	GVMW-26B
				Sample Date	3/26/2024	1/24/2024	1/10/2024	1/24/2024	3/26/2024	3/27/2024	3/12/2024	3/20/2024	3/6/2024	3/20/2024	3/20/2024
Aluminium - Dissolved	5	**7**	mg/L		**71.4**	0.933	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	**298**	<0.080	<0.080
Ammonia	NA	NA	mg/L		<0.030	0.086	<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		<0.00200	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Arsenic - Dissolved	**0.01**	NA	mg/L		<0.0100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.165**	<0.00100	<0.00100
Barium - Dissolved	**2**	NA	mg/L		0.0089	0.0093	0.066	0.008	<0.0020	0.0058	0.106	0.0514	0.0138	0.192	0.112
Beryllium - Dissolved	**0.004**	NA	mg/L		**0.00891**	**0.0933**	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	**0.247**	<0.00200	<0.00200
Boron - Total	**0.75**	NA	mg/L		<0.0400	0.0880	<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		**0.0473**	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	**0.713**	<0.0020	<0.0020
Chloride - Total	**250**	NA	mg/L		61.1	155	1.03	10.9	64.7	47.6	4.19	7.91	27.4	1.25	1.87
Chromium - Dissolved	**0.1**	NA	mg/L		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0378	<0.0060	<0.0060
Cobalt - Dissolved	**0.05**	NA	mg/L		**0.191**	0.0251	<0.0060	0.0098	<0.0060	<0.0060	<0.0060	<0.0060	**0.793**	0.0068	0.0068
Copper - Dissolved	**0.2**	**0.2**	mg/L		**1.55**	<0.0100	<0.0100	<0.0100	<0.0100	0.0546	<0.0100	<0.0100	**1.03**	<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
Cyanide - Total	NA	NA	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cyanide - WAD	NA	**0.2**	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Fluoride - Total F	**2**	**2**	mg/L		**6.01**	**9.3**	0.752	0.157	1.88	**2.14**	**2.19**	0.383	**45**	1.87	0.229
Iron - Dissolved	0.3	**14**	mg/L		<0.100	13.2	<0.100	0.435	<0.100	<0.100	<0.100	<0.100	0.332	<0.100	<0.100
Lead - Dissolved	**0.05**	NA	mg/L		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	0.0164	<0.0075	<0.0075
Lithium - Dissolved	**2.5**	NA	mg/L		0.132	0.116	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.143	<0.040	<0.040
Manganese - Dissolved	0.05	**3**	mg/L		**51**	**9.2**	0.0544	2.98	<0.0080	<0.0080	<0.0080	<0.0080	**106**	0.015	0.0117
Mercury - Dissolved	**0.002**	**0.002**	mg/L		<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum - Dissolved	**0.21**	NA	mg/L		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	0.0098	<0.0080	<0.0080	<0.0080	<0.0080
Nickel - Dissolved	**0.1**	NA	mg/L		**0.368**	0.0615	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	**1.29**	<0.0100	<0.0100
Nitrate as Nitrogen	**10**	**10**	mg/L		3.45	<0.050	<0.050	<0.050	1.15	2.03	<0.050	0.5	<0.250	<0.050	0.627
Nitrite + Nitrate as Nitrogen	10	**11**	mg/L		3.45	<0.100	<0.100	<0.100	1.15	2.03	<0.100	0.5	<0.500	<0.100	0.627
Nitrite as Nitrogen	**1**	**1**	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.250	<0.050	<0.050
pH Field	6.5-8.5	**6.0-8.5**	pH units		**3.61**	**5.31**	7.59	6.86	6.65	6.30	7.84	6.64	**3.7**	7.86	6.6
Selenium - Dissolved	0.02	**0.024**	mg/L		<0.0100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.0117	<0.00100	<0.00100
Silver - Dissolved	**0.05**	NA	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium - Dissolved	NA	NA	mg/L		32.6	71.8	11	31.8	24.8	25.1	36.5	21.8	41.8	30.4	9.75
Sulfate - Total	**250**	NA	mg/L		**924**	**1,450**	24.5	734	60.6	91	35.4	93	**4,830**	13	21.9
Thallium - Dissolved	**0.002**	NA	mg/L		<0.00200	<0.00100	<0.00100	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.00200	<0.000200	<0.000200
Total Dissolved Solids	NA	NA	mg/L		1,450	2,340	212	1,120	291	320	233	237	6,040	208	79
Uranium - Dissolved	**0.03**	NA	mg/L		**0.0378**	0.00178	0.00624	0.000229	0.00490	0.00297	0.00349	0.000948	**0.874**	0.0033	<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
Zinc - Dissolved	**2**	**2**	mg/L		**6.58**	0.124	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	**29.1**	<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

Newmont
NORTH AMERICA

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

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F 719.689.3254
newmont.com

Attachment 1

Laboratory Analytical Reports

Newmont
NORTH AMERICA

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

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newmont.com

Groundwater

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

Work Order: **X4A0166**
Reported: 25-Jan-24 12:56

Client Sample ID: **WCMW-3**
SVL Sample ID: **X4A0166-01 (Ground Water)**

Sampled: 10-Jan-24 14:27
Received: 11-Jan-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	61.3	mg/L	0.100	0.069		X403057	SMU	01/23/24 16:22	
EPA 200.7	**Magnesium**	14.5	mg/L	0.500	0.090		X403057	SMU	01/23/24 16:22	
EPA 200.7	**Potassium**	1.58	mg/L	0.50	0.18		X403057	SMU	01/23/24 16:22	
sm 2340B	**Hardness (as CaCO3)**	221	mg/L	2.31	0.543		N/A		01/23/24 16:22	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X404014	JRR	01/24/24 12:18	
EPA 200.7	**Barium**	0.0660	mg/L	0.0020	0.0019		X404014	JRR	01/24/24 12:18	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X404014	JRR	01/24/24 12:18	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X404014	JRR	01/24/24 12:18	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X404014	JRR	01/24/24 12:18	
EPA 200.7	**Calcium**	62.5	mg/L	0.100	0.069		X404014	JRR	01/24/24 12:18	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X404014	JRR	01/24/24 12:18	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X404014	JRR	01/24/24 12:18	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X404014	JRR	01/24/24 12:18	
EPA 200.7	**Iron**	0.100	mg/L	0.100	0.056		X404014	JRR	01/24/24 12:18	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X404014	JRR	01/24/24 12:18	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X404014	JRR	01/24/24 12:18	
EPA 200.7	**Magnesium**	15.7	mg/L	0.500	0.090		X404014	JRR	01/24/24 12:18	
EPA 200.7	**Manganese**	0.0544	mg/L	0.0080	0.0034		X404014	JRR	01/24/24 12:18	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X404014	JRR	01/24/24 12:18	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X404014	JRR	01/24/24 12:18	
EPA 200.7	**Potassium**	1.63	mg/L	0.50	0.18		X404014	JRR	01/24/24 12:18	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X404014	JRR	01/24/24 12:18	
EPA 200.7	**Sodium**	11.0	mg/L	0.50	0.12		X404014	JRR	01/24/24 12:18	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X404014	JRR	01/24/24 12:18	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X404014	JRR	01/24/24 12:18	
EPA 200.8	Antimony	< 0.00500	mg/L	0.00500	0.00360	5	X403180	SMU	01/25/24 10:01	D1
EPA 200.8	Arsenic	< 0.00500	mg/L	0.00500	0.00105	5	X403180	SMU	01/25/24 10:01	D1
EPA 200.8	Selenium	< 0.00500	mg/L	0.00500	0.00120	5	X403180	SMU	01/25/24 10:01	D1
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.000400	5	X403180	SMU	01/25/24 10:01	D1
EPA 200.8	**Uranium**	0.00624	mg/L	0.000100	0.000052		X403180	SMU	01/24/24 14:34	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X403062	MAC	01/22/24 14:05	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @20.0°C	< 0.0050	mg/L	0.0050	0.0048		X403129	DD	01/19/24 13:18	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X403028	DD	01/17/24 10:19	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X403020	DD	01/16/24 14:25	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X403005	DD	01/22/24 15:30	
SM 2310 B	**Acidity to pH 8.3**	-217	mg/L as CaCO3	10.0			X403136	MWD	01/19/24 10:43	
SM 2320 B	**Total Alkalinity**	212	mg/L as CaCO3	1.0			X402165	MWD	01/12/24 13:30	
SM 2320 B	**Bicarbonate**	212	mg/L as CaCO3	1.0			X402165	MWD	01/12/24 13:30	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X402165	MWD	01/12/24 13:30	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X402165	MWD	01/12/24 13:30	
SM 2540 C	**Total Diss. Solids**	212	mg/L	10			X402161	TJL	01/15/24 13:55	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X402162	TJL	01/15/24 14:30	
SM 4500 H B	**pH @17.7°C**	7.7	pH Units				X402165	MWD	01/12/24 13:30	H5

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

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

Work Order: **X4A0166**
Reported: 25-Jan-24 12:56

Client Sample ID: **WCMW-3**
SVL Sample ID: **X4A0166-01 (Ground Water)**

Sampled: 10-Jan-24 14:27
Received: 11-Jan-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.03	mg/L	0.20	0.02		X402151	RS	01/11/24 14:26	
EPA 300.0	**Fluoride**	0.752	mg/L	0.100	0.017		X402151	RS	01/11/24 14:26	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X402151	RS	01/11/24 14:26	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X402151	RS	01/11/24 14:26	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X402151	RS	01/11/24 14:26	
EPA 300.0	**Sulfate as SO4**	24.5	mg/L	0.30	0.18		X402151	RS	01/11/24 14:26	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.79 meq/L Anion Sum: 4.82 meq/L C/A Balance: -0.30 % Calculated TDS: 243 TDS/cTDS: 0.87

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

Kathryn Salter
Project Manager

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Work Order: **X4A0166**
Reported: 25-Jan-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	X403057	23-Jan-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X403057	23-Jan-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X403057	23-Jan-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X404014	24-Jan-24	
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X404014	24-Jan-24	
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X404014	24-Jan-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X404014	24-Jan-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X404014	24-Jan-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X404014	24-Jan-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X404014	24-Jan-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X404014	24-Jan-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X404014	24-Jan-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X404014	24-Jan-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X404014	24-Jan-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X404014	24-Jan-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X404014	24-Jan-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X404014	24-Jan-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X404014	24-Jan-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X404014	24-Jan-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X404014	24-Jan-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X404014	24-Jan-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X404014	24-Jan-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X404014	24-Jan-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X404014	24-Jan-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X404014	24-Jan-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X404014	24-Jan-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X404014	24-Jan-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X404014	24-Jan-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X404014	24-Jan-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X404014	24-Jan-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X404014	24-Jan-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X404014	24-Jan-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X404014	24-Jan-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X404014	24-Jan-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X404014	24-Jan-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X404014	24-Jan-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X404014	24-Jan-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X404014	24-Jan-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X404014	24-Jan-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X404014	24-Jan-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X404014	24-Jan-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X404014	24-Jan-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X404014	24-Jan-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X404014	24-Jan-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X404014	24-Jan-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X404014	24-Jan-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X404014	24-Jan-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X404014	24-Jan-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X404014	24-Jan-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X404014	24-Jan-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X404014	24-Jan-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X404014	24-Jan-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X404014	24-Jan-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X404014	24-Jan-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X404014	24-Jan-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X404014	24-Jan-24	

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Work Order: **X4A0166**
Reported: 25-Jan-24 12:56

Quality Control - BLANK Data (Continued)

Metals (Dissolved) (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X404014	24-Jan-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X404014	24-Jan-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X404014	24-Jan-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X404014	24-Jan-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X404014	24-Jan-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X404014	24-Jan-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X404014	24-Jan-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X404014	24-Jan-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X404014	24-Jan-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X404014	24-Jan-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X403180	24-Jan-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X403180	24-Jan-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X403180	24-Jan-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X403180	24-Jan-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X403180	24-Jan-24	

Metals (Filtered)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X403062	22-Jan-24	

Classical Chemistry Parameters

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X403129	19-Jan-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X403028	17-Jan-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X403020	16-Jan-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X403020	16-Jan-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X403020	16-Jan-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X403020	16-Jan-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X403020	16-Jan-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X403020	16-Jan-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X403020	16-Jan-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X403005	22-Jan-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X403136	19-Jan-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X402165	12-Jan-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X402165	12-Jan-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X402165	12-Jan-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X402165	12-Jan-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X402161	15-Jan-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X402162	15-Jan-24	

Anions by Ion Chromatography

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X402151	11-Jan-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X402151	11-Jan-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X402151	11-Jan-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X402151	11-Jan-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X402151	11-Jan-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X402151	11-Jan-24	

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Work Order: **X4A0166**
Reported: 25-Jan-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	19.7	20.0	99	85 - 115	X403057	23-Jan-24	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.4	85 - 115	X403057	23-Jan-24	
EPA 200.7	Potassium	mg/L	19.8	20.0	98.8	85 - 115	X403057	23-Jan-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	1.01	1.00	101	85 - 115	X404014	24-Jan-24	
EPA 200.7	Barium	mg/L	1.02	1.00	102	85 - 115	X404014	24-Jan-24	
EPA 200.7	Beryllium	mg/L	0.989	1.00	98.9	85 - 115	X404014	24-Jan-24	
EPA 200.7	Boron	mg/L	0.991	1.00	99.1	85 - 115	X404014	24-Jan-24	
EPA 200.7	Cadmium	mg/L	1.02	1.00	102	85 - 115	X404014	24-Jan-24	
EPA 200.7	Calcium	mg/L	20.4	20.0	102	85 - 115	X404014	24-Jan-24	
EPA 200.7	Chromium	mg/L	1.00	1.00	100	85 - 115	X404014	24-Jan-24	
EPA 200.7	Cobalt	mg/L	0.993	1.00	99.3	85 - 115	X404014	24-Jan-24	
EPA 200.7	Copper	mg/L	0.985	1.00	98.5	85 - 115	X404014	24-Jan-24	
EPA 200.7	Iron	mg/L	10.3	10.0	103	85 - 115	X404014	24-Jan-24	
EPA 200.7	Lead	mg/L	1.01	1.00	101	85 - 115	X404014	24-Jan-24	
EPA 200.7	Lithium	mg/L	0.988	1.00	98.8	85 - 115	X404014	24-Jan-24	
EPA 200.7	Magnesium	mg/L	20.5	20.0	102	85 - 115	X404014	24-Jan-24	
EPA 200.7	Manganese	mg/L	1.00	1.00	100	85 - 115	X404014	24-Jan-24	
EPA 200.7	Molybdenum	mg/L	0.976	1.00	97.6	85 - 115	X404014	24-Jan-24	
EPA 200.7	Nickel	mg/L	0.996	1.00	99.6	85 - 115	X404014	24-Jan-24	
EPA 200.7	Potassium	mg/L	20.4	20.0	102	85 - 115	X404014	24-Jan-24	
EPA 200.7	Silver	mg/L	0.0507	0.0500	101	85 - 115	X404014	24-Jan-24	
EPA 200.7	Sodium	mg/L	19.2	19.0	101	85 - 115	X404014	24-Jan-24	
EPA 200.7	Vanadium	mg/L	0.992	1.00	99.2	85 - 115	X404014	24-Jan-24	
EPA 200.7	Zinc	mg/L	1.02	1.00	102	85 - 115	X404014	24-Jan-24	
EPA 200.8	Antimony	mg/L	0.0232	0.0250	92.9	85 - 115	X403180	24-Jan-24	
EPA 200.8	Arsenic	mg/L	0.0233	0.0250	93.0	85 - 115	X403180	24-Jan-24	
EPA 200.8	Selenium	mg/L	0.0234	0.0250	93.7	85 - 115	X403180	24-Jan-24	
EPA 200.8	Thallium	mg/L	0.0233	0.0250	93.3	85 - 115	X403180	24-Jan-24	
EPA 200.8	Uranium	mg/L	0.0226	0.0250	90.5	85 - 115	X403180	24-Jan-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00199	0.00200	99.7	85 - 115	X403062	22-Jan-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.110	0.100	110	90 - 110	X403129	19-Jan-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X403028	17-Jan-24	
EPA 350.1	Ammonia as N	mg/L	0.915	1.00	91.5	90 - 110	X403020	16-Jan-24	
EPA 350.1	Ammonia as N	mg/L	0.925	1.00	92.5	90 - 110	X403020	16-Jan-24	
EPA 350.1	Ammonia as N	mg/L	0.924	1.00	92.4	90 - 110	X403020	16-Jan-24	
EPA 350.1	Ammonia as N	mg/L	0.949	1.00	94.9	90 - 110	X403020	16-Jan-24	
OIA 1677	Cyanide (WAD)	mg/L	0.100	0.100	100	90 - 110	X403005	22-Jan-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1580	1640	96.6	95.4 - 104	X403136	19-Jan-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.70	9.93	97.7	96.4 - 105	X402165	12-Jan-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	98.5	99.3	99.2	96.4 - 105	X402165	12-Jan-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	396	397	99.6	96.4 - 105	X402165	12-Jan-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X402162	15-Jan-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.99	3.00	99.7	90 - 110	X402151	11-Jan-24	
EPA 300.0	Fluoride	mg/L	2.02	2.00	101	90 - 110	X402151	11-Jan-24	
EPA 300.0	Nitrate as N	mg/L	2.03	2.00	101	90 - 110	X402151	11-Jan-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.57	4.50	102	90 - 110	X402151	11-Jan-24	
EPA 300.0	Nitrite as N	mg/L	2.54	2.50	102	90 - 110	X402151	11-Jan-24	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.0	105	90 - 110	X402151	11-Jan-24	

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Work Order: **X4A0166**
Reported: 25-Jan-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 CaCO3	<10.0	<10.0	UDL	20	X403136 - X4A0148-01	19-Jan-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	71.7	71.9	0.3	20	X402165 - X4A0162-02	12-Jan-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	71.7	71.9	0.3	20	X402165 - X4A0162-02	12-Jan-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X402165 - X4A0162-02	12-Jan-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X402165 - X4A0162-02	12-Jan-24	
SM 2540 C	Total Diss. Solids	mg/L	190	202	6.1	10	X402161 - X4A0174-02	15-Jan-24	
SM 2540 C	Total Diss. Solids	mg/L	294	291	1.0	10	X402161 - X4A0162-02	15-Jan-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X402162 - X4A0162-02	15-Jan-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X402162 - X4A0174-02	15-Jan-24	
SM 4500 H B	pH @17.6°C	pH Units	7.6	7.6	0.4	20	X402165 - X4A0162-02	12-Jan-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	80.7	61.3	20.0	97	70 - 130	X403057 - X4A0166-01	23-Jan-24	
EPA 200.7	Calcium	mg/L	62.6	43.0	20.0	98	70 - 130	X403057 - X4A0179-01	23-Jan-24	
EPA 200.7	Magnesium	mg/L	34.0	14.5	20.0	97.7	70 - 130	X403057 - X4A0166-01	23-Jan-24	
EPA 200.7	Magnesium	mg/L	34.4	14.5	20.0	99.3	70 - 130	X403057 - X4A0179-01	23-Jan-24	
EPA 200.7	Potassium	mg/L	21.5	1.58	20.0	99.4	70 - 130	X403057 - X4A0166-01	23-Jan-24	
EPA 200.7	Potassium	mg/L	23.0	3.35	20.0	98.1	70 - 130	X403057 - X4A0179-01	23-Jan-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.05	<0.080	1.00	105	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Aluminum	mg/L	1.00	<0.080	1.00	100	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Barium	mg/L	1.06	<0.0020	1.00	106	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Barium	mg/L	1.08	0.0660	1.00	101	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Beryllium	mg/L	0.994	<0.00200	1.00	99.4	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Beryllium	mg/L	0.985	<0.00200	1.00	98.5	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Boron	mg/L	1.04	<0.0400	1.00	103	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Boron	mg/L	0.982	<0.0400	1.00	97.2	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Cadmium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Cadmium	mg/L	1.01	<0.0020	1.00	101	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Calcium	mg/L	69.4	48.0	20.0	107	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Calcium	mg/L	81.3	62.5	20.0	94.0	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Chromium	mg/L	1.01	<0.0060	1.00	101	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Chromium	mg/L	0.997	<0.0060	1.00	99.7	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Cobalt	mg/L	0.989	<0.0060	1.00	98.9	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Cobalt	mg/L	0.975	<0.0060	1.00	97.5	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Copper	mg/L	0.987	<0.0100	1.00	98.3	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Copper	mg/L	0.994	<0.0100	1.00	99.4	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Iron	mg/L	10.7	<0.100	10.0	107	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Iron	mg/L	10.3	0.100	10.0	102	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Lead	mg/L	1.00	<0.0075	1.00	100	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Lead	mg/L	0.991	<0.0075	1.00	99.1	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Lithium	mg/L	1.05	<0.040	1.00	105	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Lithium	mg/L	0.999	<0.040	1.00	99.9	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Magnesium	mg/L	27.2	6.31	20.0	104	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Magnesium	mg/L	35.2	15.7	20.0	97.8	70 - 130	X404014 - X4A0166-01	24-Jan-24	

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Work Order: **X4A0166**
Reported: 25-Jan-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	1.01	<0.0080	1.00	100	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Manganese	mg/L	1.04	0.0544	1.00	98.7	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Molybdenum	mg/L	0.980	<0.0080	1.00	98.0	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Molybdenum	mg/L	0.977	<0.0080	1.00	97.7	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Nickel	mg/L	0.989	<0.0100	1.00	98.9	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Nickel	mg/L	0.974	<0.0100	1.00	97.4	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Potassium	mg/L	22.1	0.80	20.0	107	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Potassium	mg/L	22.2	1.63	20.0	103	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Silver	mg/L	0.0530	<0.0050	0.0500	106	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Silver	mg/L	0.0507	<0.0050	0.0500	101	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Sodium	mg/L	43.9	23.8	19.0	106	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Sodium	mg/L	29.9	11.0	19.0	99.6	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Vanadium	mg/L	0.996	<0.0050	1.00	99.6	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Vanadium	mg/L	0.993	<0.0050	1.00	99.3	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Zinc	mg/L	1.03	<0.0100	1.00	103	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Zinc	mg/L	1.00	<0.0100	1.00	100	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.8	Antimony	mg/L	0.0249	<0.00100	0.0250	99.7	70 - 130	X403180 - X4A0257-01	24-Jan-24	
EPA 200.8	Antimony	mg/L	0.0287	<0.00500	0.0250	115	70 - 130	X403180 - X4A0148-01	25-Jan-24	D1
EPA 200.8	Arsenic	mg/L	0.0238	<0.00100	0.0250	95.1	70 - 130	X403180 - X4A0257-01	24-Jan-24	
EPA 200.8	Arsenic	mg/L	0.0294	<0.00500	0.0250	118	70 - 130	X403180 - X4A0148-01	25-Jan-24	D1
EPA 200.8	Selenium	mg/L	0.0234	<0.00100	0.0250	92.6	70 - 130	X403180 - X4A0257-01	24-Jan-24	
EPA 200.8	Selenium	mg/L	0.0299	<0.00500	0.0250	120	70 - 130	X403180 - X4A0148-01	25-Jan-24	D1
EPA 200.8	Thallium	mg/L	0.0225	<0.000200	0.0250	90.1	70 - 130	X403180 - X4A0257-01	24-Jan-24	
EPA 200.8	Thallium	mg/L	0.0286	<0.00100	0.0250	114	70 - 130	X403180 - X4A0148-01	25-Jan-24	D1
EPA 200.8	Uranium	mg/L	0.0297	0.00423	0.0250	102	70 - 130	X403180 - X4A0257-01	24-Jan-24	
EPA 200.8	Uranium	mg/L	0.0335	0.00345	0.0250	120	70 - 130	X403180 - X4A0148-01	25-Jan-24	D1
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00202	<0.000200	0.00200	101	70 - 130	X403062 - X4A0148-01	22-Jan-24	
EPA 245.1	Mercury	mg/L	0.00207	<0.000200	0.00200	103	70 - 130	X403062 - X4A0166-01	22-Jan-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.100	<0.0050	0.100	100	79 - 121	X403129 - X4A0062-01	19-Jan-24	R2B
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X403028 - X4A0148-01	17-Jan-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X403028 - X4A0148-02	17-Jan-24	
EPA 350.1	Ammonia as N	mg/L	0.950	<0.030	1.00	93.4	90 - 110	X403020 - X4A0166-01	16-Jan-24	
OIA 1677	Cyanide (WAD)	mg/L	0.100	<0.0050	0.100	97.0	82 - 118	X403005 - X4A0062-01	22-Jan-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.13	1.03	3.00	103	90 - 110	X402151 - X4A0166-01	11-Jan-24	
EPA 300.0	Chloride	mg/L	3.86	0.72	3.00	104	90 - 110	X402151 - X4A0177-04	12-Jan-24	
EPA 300.0	Fluoride	mg/L	2.76	0.752	2.00	101	90 - 110	X402151 - X4A0166-01	11-Jan-24	
EPA 300.0	Fluoride	mg/L	2.07	<0.100	2.00	101	90 - 110	X402151 - X4A0177-04	12-Jan-24	
EPA 300.0	Nitrate as N	mg/L	2.03	<0.050	2.00	101	90 - 110	X402151 - X4A0166-01	11-Jan-24	
EPA 300.0	Nitrate as N	mg/L	2.35	0.256	2.00	104	90 - 110	X402151 - X4A0177-04	12-Jan-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.92	<0.100	4.00	98.1	90 - 110	X402151 - X4A0166-01	11-Jan-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.43	0.256	4.00	104	90 - 110	X402151 - X4A0177-04	12-Jan-24	
EPA 300.0	Nitrite as N	mg/L	1.90	<0.050	2.00	94.8	90 - 110	X402151 - X4A0166-01	11-Jan-24	
EPA 300.0	Nitrite as N	mg/L	2.08	<0.050	2.00	104	90 - 110	X402151 - X4A0177-04	12-Jan-24	
EPA 300.0	Sulfate as SO4	mg/L	34.6	24.5	10.0	101	90 - 110	X402151 - X4A0166-01	11-Jan-24	
EPA 300.0	Sulfate as SO4	mg/L	12.4	1.56	10.0	108	90 - 110	X402151 - X4A0177-04	12-Jan-24	

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Work Order: **X4A0166**
Reported: 25-Jan-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	80.6	80.7	20.0	0.1	20	97	X403057 - X4A0166-01	
EPA 200.7	Magnesium	mg/L	34.1	34.0	20.0	0.3	20	98.2	X403057 - X4A0166-01	
EPA 200.7	Potassium	mg/L	21.4	21.5	20.0	0.3	20	99.0	X403057 - X4A0166-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	1.05	1.00	3.7	20	101	X404014 - X4A0257-01	
EPA 200.7	Barium	mg/L	1.02	1.06	1.00	4.0	20	102	X404014 - X4A0257-01	
EPA 200.7	Beryllium	mg/L	0.978	0.994	1.00	1.7	20	97.8	X404014 - X4A0257-01	
EPA 200.7	Boron	mg/L	0.996	1.04	1.00	4.3	20	98.2	X404014 - X4A0257-01	
EPA 200.7	Cadmium	mg/L	0.997	1.02	1.00	2.2	20	99.7	X404014 - X4A0257-01	
EPA 200.7	Calcium	mg/L	68.7	69.4	20.0	1.0	20	104	X404014 - X4A0257-01	
EPA 200.7	Chromium	mg/L	0.985	1.01	1.00	2.8	20	98.5	X404014 - X4A0257-01	
EPA 200.7	Cobalt	mg/L	0.966	0.989	1.00	2.4	20	96.6	X404014 - X4A0257-01	
EPA 200.7	Copper	mg/L	0.974	0.987	1.00	1.3	20	97.0	X404014 - X4A0257-01	
EPA 200.7	Iron	mg/L	10.2	10.7	10.0	4.2	20	102	X404014 - X4A0257-01	
EPA 200.7	Lead	mg/L	0.974	1.00	1.00	2.9	20	97.4	X404014 - X4A0257-01	
EPA 200.7	Lithium	mg/L	1.00	1.05	1.00	4.4	20	100	X404014 - X4A0257-01	
EPA 200.7	Magnesium	mg/L	26.3	27.2	20.0	3.4	20	99.8	X404014 - X4A0257-01	
EPA 200.7	Manganese	mg/L	0.990	1.01	1.00	1.8	20	98.2	X404014 - X4A0257-01	
EPA 200.7	Molybdenum	mg/L	0.960	0.980	1.00	2.0	20	96.0	X404014 - X4A0257-01	
EPA 200.7	Nickel	mg/L	0.966	0.989	1.00	2.3	20	96.6	X404014 - X4A0257-01	
EPA 200.7	Potassium	mg/L	21.2	22.1	20.0	4.3	20	102	X404014 - X4A0257-01	
EPA 200.7	Silver	mg/L	0.0509	0.0530	0.0500	4.0	20	102	X404014 - X4A0257-01	
EPA 200.7	Sodium	mg/L	43.2	43.9	19.0	1.6	20	102	X404014 - X4A0257-01	
EPA 200.7	Vanadium	mg/L	0.977	0.996	1.00	2.0	20	97.7	X404014 - X4A0257-01	
EPA 200.7	Zinc	mg/L	0.999	1.03	1.00	3.1	20	99.9	X404014 - X4A0257-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00196	0.00202	0.00200	3.3	20	97.8	X403062 - X4A0148-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.113	0.100	0.100	12.2	11	113	X403129 - X4A0062-01	R2B
EPA 335.4	Cyanide (total)	mg/L	0.103	0.101	0.100	2.3	20	103	X403028 - X4A0148-01	
EPA 350.1	Ammonia as N	mg/L	0.966	0.950	1.00	1.6	20	94.9	X403020 - X4A0166-01	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	0.100	1.0	11	98.0	X403005 - X4A0062-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.13	4.13	3.00	0.1	20	104	X402151 - X4A0166-01	
EPA 300.0	Fluoride	mg/L	2.76	2.76	2.00	0.0	20	101	X402151 - X4A0166-01	
EPA 300.0	Nitrate as N	mg/L	2.03	2.03	2.00	0.1	20	101	X402151 - X4A0166-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.93	3.92	4.00	0.2	20	98.3	X402151 - X4A0166-01	
EPA 300.0	Nitrite as N	mg/L	1.90	1.90	2.00	0.3	20	95.1	X402151 - X4A0166-01	
EPA 300.0	Sulfate as SO4	mg/L	34.7	34.6	10.0	0.1	20	101	X402151 - X4A0166-01	

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Work Order: **X4A0166**
Reported: 25-Jan-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.
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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Work Order: **X4A0336**
Reported: 15-Feb-24 12:23

Client Sample ID: **VIN-2B**
SVL Sample ID: **X4A0336-03 (Ground Water)**

Sampled: 24-Jan-24 12:06
Received: 25-Jan-24
Sampled By: BOD

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**	206	mg/L	0.100	0.069		X405178	JRR	02/02/24 10:11	
EPA 200.7	**Magnesium**	58.3	mg/L	0.500	0.090		X405178	JRR	02/02/24 10:11	
EPA 200.7	**Potassium**	2.14	mg/L	0.50	0.18		X405178	JRR	02/02/24 10:11	
sm 2340B	**Hardness (as CaCO3)**	697	mg/L	2.31	0.543		N/A		02/02/24 10:11	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X405008	JRR	01/31/24 12:14	
EPA 200.7	**Barium**	0.0080	mg/L	0.0020	0.0019		X405008	JRR	01/31/24 12:14	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X405008	JRR	01/31/24 12:14	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X405008	JRR	01/31/24 12:14	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X405008	JRR	01/31/24 12:14	
EPA 200.7	**Calcium**	194	mg/L	0.100	0.069		X405008	JRR	01/31/24 12:14	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X405008	JRR	01/31/24 12:14	
EPA 200.7	**Cobalt**	0.0098	mg/L	0.0060	0.0046		X405008	JRR	01/31/24 12:14	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X405008	JRR	01/31/24 12:14	
EPA 200.7	**Iron**	0.435	mg/L	0.100	0.056		X405008	JRR	01/31/24 12:14	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X405008	JRR	01/31/24 12:14	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X405008	JRR	01/31/24 12:14	
EPA 200.7	**Magnesium**	51.6	mg/L	0.500	0.090		X405008	JRR	01/31/24 12:14	
EPA 200.7	**Manganese**	2.98	mg/L	0.0080	0.0034		X405008	JRR	01/31/24 12:14	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X405008	JRR	01/31/24 12:14	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X405008	JRR	01/31/24 12:14	
EPA 200.7	**Potassium**	2.05	mg/L	0.50	0.18		X405008	JRR	01/31/24 12:14	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X405008	JRR	01/31/24 12:14	
EPA 200.7	**Sodium**	31.8	mg/L	0.50	0.12		X405008	JRR	01/31/24 12:14	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X405008	JRR	01/31/24 12:14	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X405008	JRR	01/31/24 12:14	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X405051	SMU	02/01/24 18:52	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X405051	SMU	02/01/24 18:52	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X405051	SMU	02/01/24 18:52	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X405051	SMU	02/01/24 18:52	
EPA 200.8	**Uranium**	0.000229	mg/L	0.000100	0.000052		X405051	SMU	02/01/24 18:52	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X406012	MAC	02/05/24 15:21	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X405035	DD	02/06/24 14:11	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X405186	DD	02/02/24 13:58	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X405027	DD	01/30/24 13:11	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X405036	DD	02/14/24 11:36	H1
SM 2310 B	**Acidity to pH 8.3**	-64.7	mg/L as CaCO3	10.0			X406062	MWD	02/06/24 09:57	
SM 2320 B	**Total Alkalinity**	67.6	mg/L as CaCO3	1.0			X405165	MWD	02/01/24 14:16	
SM 2320 B	**Bicarbonate**	67.6	mg/L as CaCO3	1.0			X405165	MWD	02/01/24 14:16	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X405165	MWD	02/01/24 14:16	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X405165	MWD	02/01/24 14:16	
SM 2540 C	**Total Diss. Solids**	1120	mg/L	10			X404199	TJL	01/29/24 14:40	
SM 2540 D	**Total Susp. Solids**	6.0	mg/L	5.0			X404200	TJL	01/26/24 15:10	R2B
SM 4500 H B	**pH @18.4°C**	7.3	pH Units				X405165	MWD	02/01/24 14:16	H5

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

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Work Order: **X4A0336**
Reported: 15-Feb-24 12:23

Client Sample ID: **VIN-2B**
SVL Sample ID: **X4A0336-03 (Ground Water)**

Sampled: 24-Jan-24 12:06
Received: 25-Jan-24
Sampled By: BOD

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	10.9	mg/L	0.20	0.02		X404177	RS	01/25/24 17:04	
EPA 300.0	**Fluoride**	0.157	mg/L	0.100	0.017		X404177	RS	01/25/24 17:04	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X404177	RS	01/25/24 17:04	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X404177	RS	01/25/24 17:04	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X404177	RS	01/25/24 17:04	
EPA 300.0	**Sulfate as SO4**	734	mg/L	15.0	9.00	50	X404177	RS	01/25/24 17:21	D2
Cation/Anion Balance and TDS Ratios										

Cation Sum: 15.5 meq/L Anion Sum: 17.0 meq/L C/A Balance: -4.48 % Calculated TDS: 1074 TDS/cTDS: 1.04

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

Kathryn Salter
Project Manager

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Work Order: **X4A0336**
Reported: 15-Feb-24 12:23

Client Sample ID: **SGMW-6B**
SVL Sample ID: **X4A0336-04 (Ground Water)**

Sampled: 24-Jan-24 14:10
Received: 25-Jan-24
Sampled By: BOD

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**	491	mg/L	1.00	0.690	10	X405178	JRR	02/02/24 11:15	D2
EPA 200.7	**Magnesium**	97.2	mg/L	0.500	0.090		X405178	JRR	02/02/24 10:15	
EPA 200.7	**Potassium**	9.87	mg/L	0.50	0.18		X405178	JRR	02/02/24 10:15	
sm 2340B	**Hardness (as CaCO3)**	1510	mg/L	2.31	0.543		N/A		02/02/24 10:15	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	0.933	mg/L	0.080	0.054		X405008	JRR	01/31/24 12:17	
EPA 200.7	**Barium**	0.0093	mg/L	0.0020	0.0019		X405008	JRR	01/31/24 12:17	
EPA 200.7	**Beryllium**	0.0933	mg/L	0.00200	0.00080		X405008	JRR	01/31/24 12:17	
EPA 200.7	**Boron**	0.0880	mg/L	0.0400	0.0078		X405008	JRR	01/31/24 12:17	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X405008	JRR	01/31/24 12:17	
EPA 200.7	**Calcium**	468	mg/L	0.100	0.069		X405008	JRR	01/31/24 12:17	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X405008	JRR	01/31/24 12:17	
EPA 200.7	**Cobalt**	0.0251	mg/L	0.0060	0.0046		X405008	JRR	01/31/24 12:17	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X405008	JRR	01/31/24 12:17	
EPA 200.7	**Iron**	13.2	mg/L	0.100	0.056		X405008	JRR	01/31/24 12:17	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X405008	JRR	01/31/24 12:17	
EPA 200.7	**Lithium**	0.116	mg/L	0.040	0.025		X405008	JRR	01/31/24 12:17	
EPA 200.7	**Magnesium**	82.7	mg/L	0.500	0.090		X405008	JRR	01/31/24 12:17	
EPA 200.7	**Manganese**	9.21	mg/L	0.0080	0.0034		X405008	JRR	01/31/24 12:17	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X405008	JRR	01/31/24 12:17	
EPA 200.7	**Nickel**	0.0615	mg/L	0.0100	0.0048		X405008	JRR	01/31/24 12:17	
EPA 200.7	**Potassium**	9.77	mg/L	0.50	0.18		X405008	JRR	01/31/24 12:17	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X405008	JRR	01/31/24 12:17	
EPA 200.7	**Sodium**	71.8	mg/L	0.50	0.12		X405008	JRR	01/31/24 12:17	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X405008	JRR	01/31/24 12:17	
EPA 200.7	**Zinc**	0.124	mg/L	0.0100	0.0054		X405008	JRR	01/31/24 12:17	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X405051	SMU	02/01/24 18:54	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X405051	SMU	02/01/24 18:54	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X405051	SMU	02/01/24 18:54	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.000400	5	X405051	SMU	02/01/24 19:29	D1
EPA 200.8	**Uranium**	0.00178	mg/L	0.000500	0.000260	5	X405051	SMU	02/01/24 19:29	D1
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X406012	MAC	02/05/24 15:23	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X405035	DD	02/06/24 14:13	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X405186	DD	02/02/24 14:01	
EPA 350.1	**Ammonia as N**	0.086	mg/L	0.030	0.013		X405027	DD	01/30/24 13:13	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X405036	DD	02/14/24 11:38	H1
SM 2310 B	**Acidity to pH 8.3**	-80.5	mg/L as CaCO3	10.0			X406062	MWD	02/06/24 09:57	
SM 2320 B	**Total Alkalinity**	79.1	mg/L as CaCO3	1.0			X405165	MWD	02/01/24 14:22	
SM 2320 B	**Bicarbonate**	79.1	mg/L as CaCO3	1.0			X405165	MWD	02/01/24 14:22	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X405165	MWD	02/01/24 14:22	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X405165	MWD	02/01/24 14:22	
SM 2540 C	**Total Diss. Solids**	2340	mg/L	40			X404199	TJL	01/29/24 14:40	D2
SM 2540 D	**Total Susp. Solids**	57.0	mg/L	5.0			X404200	TJL	01/26/24 15:10	
SM 4500 H B	**pH @18.6°C**	6.1	pH Units				X405165	MWD	02/01/24 14:22	H5

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

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Work Order: **X4A0336**
Reported: 15-Feb-24 12:23

Client Sample ID: **SGMW-6B**
SVL Sample ID: **X4A0336-04 (Ground Water)**

Sampled: 24-Jan-24 14:10
Received: 25-Jan-24
Sampled By: BOD

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	155	mg/L	10.0	1.10	50	X404177	RS	01/25/24 17:55	D2
EPA 300.0	**Fluoride**	9.34	mg/L	5.00	0.850	50	X404177	RS	01/25/24 17:55	D2
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X404177	RS	01/25/24 17:38	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X404177	RS	01/25/24 17:38	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X404177	RS	01/25/24 17:38	
EPA 300.0	**Sulfate as SO4**	1450	mg/L	15.0	9.00	50	X404177	RS	01/25/24 17:55	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 34.5 meq/L Anion Sum: 36.6 meq/L C/A Balance: -3.05 % Calculated TDS: 2313 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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Work Order: **X4A0336**
Reported: 15-Feb-24 12:23

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	X405178	02-Feb-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X405178	02-Feb-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X405178	02-Feb-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X405008	31-Jan-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X405008	31-Jan-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X405008	31-Jan-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X405008	31-Jan-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X405008	31-Jan-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X405008	31-Jan-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X405008	31-Jan-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X405008	31-Jan-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X405008	31-Jan-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X405008	31-Jan-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X405008	31-Jan-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X405008	31-Jan-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X405008	31-Jan-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X405008	31-Jan-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X405008	31-Jan-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X405008	31-Jan-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X405008	31-Jan-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X405008	31-Jan-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X405008	31-Jan-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X405008	31-Jan-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X405008	31-Jan-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X405051	01-Feb-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X405051	01-Feb-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X405051	01-Feb-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X405051	01-Feb-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X405051	01-Feb-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X406012	05-Feb-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X405035	06-Feb-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X405186	02-Feb-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X405027	30-Jan-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X405036	14-Feb-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X406062	06-Feb-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X405165	01-Feb-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X405165	01-Feb-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X405165	01-Feb-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X405165	01-Feb-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X404199	29-Jan-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X404200	26-Jan-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X404177	25-Jan-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X404177	25-Jan-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X404177	25-Jan-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X404177	25-Jan-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X404177	25-Jan-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X404177	25-Jan-24	

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Work Order: **X4A0336**
Reported: 15-Feb-24 12:23

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	X405178	02-Feb-24	
EPA 200.7	Magnesium	mg/L	20.4	20.0	102	85 - 115	X405178	02-Feb-24	
EPA 200.7	Potassium	mg/L	20.0	20.0	100	85 - 115	X405178	02-Feb-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.997	1.00	99.7	85 - 115	X405008	31-Jan-24	
EPA 200.7	Barium	mg/L	1.03	1.00	103	85 - 115	X405008	31-Jan-24	
EPA 200.7	Beryllium	mg/L	1.01	1.00	101	85 - 115	X405008	31-Jan-24	
EPA 200.7	Boron	mg/L	0.952	1.00	95.2	85 - 115	X405008	31-Jan-24	
EPA 200.7	Cadmium	mg/L	0.965	1.00	96.5	85 - 115	X405008	31-Jan-24	
EPA 200.7	Calcium	mg/L	20.0	20.0	100	85 - 115	X405008	31-Jan-24	
EPA 200.7	Chromium	mg/L	1.00	1.00	100	85 - 115	X405008	31-Jan-24	
EPA 200.7	Cobalt	mg/L	0.951	1.00	95.1	85 - 115	X405008	31-Jan-24	
EPA 200.7	Copper	mg/L	0.962	1.00	96.2	85 - 115	X405008	31-Jan-24	
EPA 200.7	Iron	mg/L	10.2	10.0	102	85 - 115	X405008	31-Jan-24	
EPA 200.7	Lead	mg/L	0.964	1.00	96.4	85 - 115	X405008	31-Jan-24	
EPA 200.7	Lithium	mg/L	1.02	1.00	102	85 - 115	X405008	31-Jan-24	
EPA 200.7	Magnesium	mg/L	20.3	20.0	101	85 - 115	X405008	31-Jan-24	
EPA 200.7	Manganese	mg/L	1.03	1.00	103	85 - 115	X405008	31-Jan-24	
EPA 200.7	Molybdenum	mg/L	0.950	1.00	95.0	85 - 115	X405008	31-Jan-24	
EPA 200.7	Nickel	mg/L	0.966	1.00	96.6	85 - 115	X405008	31-Jan-24	
EPA 200.7	Potassium	mg/L	20.5	20.0	103	85 - 115	X405008	31-Jan-24	
EPA 200.7	Silver	mg/L	0.0511	0.0500	102	85 - 115	X405008	31-Jan-24	
EPA 200.7	Sodium	mg/L	19.3	19.0	101	85 - 115	X405008	31-Jan-24	
EPA 200.7	Vanadium	mg/L	0.973	1.00	97.3	85 - 115	X405008	31-Jan-24	
EPA 200.7	Zinc	mg/L	0.966	1.00	96.6	85 - 115	X405008	31-Jan-24	
EPA 200.8	Antimony	mg/L	0.0245	0.0250	98.1	85 - 115	X405051	01-Feb-24	
EPA 200.8	Arsenic	mg/L	0.0249	0.0250	99.5	85 - 115	X405051	01-Feb-24	
EPA 200.8	Selenium	mg/L	0.0258	0.0250	103	85 - 115	X405051	01-Feb-24	
EPA 200.8	Thallium	mg/L	0.0247	0.0250	98.9	85 - 115	X405051	01-Feb-24	
EPA 200.8	Uranium	mg/L	0.0243	0.0250	97.1	85 - 115	X405051	01-Feb-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00204	0.00200	102	85 - 115	X406012	05-Feb-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.100	0.100	100	90 - 110	X405035	06-Feb-24	
EPA 335.4	Cyanide (total)	mg/L	0.100	0.100	100	90 - 110	X405186	02-Feb-24	
EPA 350.1	Ammonia as N	mg/L	0.953	1.00	95.3	90 - 110	X405027	30-Jan-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0960	0.100	96.0	90 - 110	X405036	14-Feb-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1690	1640	103	95.4 - 104	X406062	06-Feb-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	96.4 - 105	X405165	01-Feb-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.6	99.3	100	96.4 - 105	X405165	01-Feb-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X404200	26-Jan-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.98	3.00	99.3	90 - 110	X404177	25-Jan-24	
EPA 300.0	Fluoride	mg/L	2.02	2.00	101	90 - 110	X404177	25-Jan-24	
EPA 300.0	Nitrate as N	mg/L	2.02	2.00	101	90 - 110	X404177	25-Jan-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.52	4.50	100	90 - 110	X404177	25-Jan-24	
EPA 300.0	Nitrite as N	mg/L	2.50	2.50	100	90 - 110	X404177	25-Jan-24	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X404177	25-Jan-24	

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Work Order: **X4A0336**
Reported: 15-Feb-24 12:23

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 CaCO3	<10.0	<10.0	UDL	20	X406062 - X4A0336-01	06-Feb-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	306	307	0.2	20	X405165 - X4A0336-02	01-Feb-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	306	307	0.2	20	X405165 - X4A0336-02	01-Feb-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X405165 - X4A0336-02	01-Feb-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X405165 - X4A0336-02	01-Feb-24	
SM 2540 C	Total Diss. Solids	mg/L	1110	1120	0.4	10	X404199 - X4A0336-03	29-Jan-24	
SM 2540 C	Total Diss. Solids	mg/L	2950	2920	1.1	10	X404199 - X4A0331-02	29-Jan-24	D2
SM 2540 D	Total Susp. Solids	mg/L	7.0	6.0	15.4	10	X404200 - X4A0336-03	26-Jan-24	R2B
SM 4500 H B	pH @18.7°C	pH Units	7.0	7.1	1.1	20	X405165 - X4A0336-02	01-Feb-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	79.8	59.0	20.0	104	70 - 130	X405178 - X4A0314-01	02-Feb-24	
EPA 200.7	Calcium	mg/L	531	524	20.0	0.30R>S	70 - 130	X405178 - X4A0369-04	02-Feb-24	D2,M4
EPA 200.7	Magnesium	mg/L	43.3	22.0	20.0	106	70 - 130	X405178 - X4A0314-01	02-Feb-24	
EPA 200.7	Magnesium	mg/L	737	735	20.0	0.30R>S	70 - 130	X405178 - X4A0369-04	02-Feb-24	D2,M4
EPA 200.7	Potassium	mg/L	31.0	11.1	20.0	99.6	70 - 130	X405178 - X4A0314-01	02-Feb-24	
EPA 200.7	Potassium	mg/L	39.1	18.9	20.0	101	70 - 130	X405178 - X4A0369-04	02-Feb-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.07	<0.080	1.00	107	70 - 130	X405008 - X4A0336-01	31-Jan-24	
EPA 200.7	Aluminum	mg/L	0.968	<0.080	1.00	96.8	70 - 130	X405008 - X4A0373-03	31-Jan-24	
EPA 200.7	Barium	mg/L	1.11	<0.0020	1.00	111	70 - 130	X405008 - X4A0336-01	31-Jan-24	
EPA 200.7	Barium	mg/L	1.01	0.0290	1.00	98.1	70 - 130	X405008 - X4A0373-03	31-Jan-24	
EPA 200.7	Beryllium	mg/L	1.09	<0.00200	1.00	109	70 - 130	X405008 - X4A0336-01	31-Jan-24	
EPA 200.7	Beryllium	mg/L	0.960	<0.00200	1.00	96.0	70 - 130	X405008 - X4A0373-03	31-Jan-24	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	103	70 - 130	X405008 - X4A0336-01	31-Jan-24	
EPA 200.7	Boron	mg/L	0.976	0.0411	1.00	93.5	70 - 130	X405008 - X4A0373-03	31-Jan-24	
EPA 200.7	Cadmium	mg/L	1.06	<0.0020	1.00	106	70 - 130	X405008 - X4A0336-01	31-Jan-24	
EPA 200.7	Cadmium	mg/L	0.948	<0.0020	1.00	94.8	70 - 130	X405008 - X4A0373-03	31-Jan-24	
EPA 200.7	Calcium	mg/L	21.6	<0.100	20.0	108	70 - 130	X405008 - X4A0336-01	31-Jan-24	
EPA 200.7	Calcium	mg/L	120	102	20.0	86.6	70 - 130	X405008 - X4A0373-03	31-Jan-24	
EPA 200.7	Chromium	mg/L	1.11	<0.0060	1.00	111	70 - 130	X405008 - X4A0336-01	31-Jan-24	
EPA 200.7	Chromium	mg/L	0.954	<0.0060	1.00	95.4	70 - 130	X405008 - X4A0373-03	31-Jan-24	
EPA 200.7	Cobalt	mg/L	1.03	<0.0060	1.00	103	70 - 130	X405008 - X4A0336-01	31-Jan-24	
EPA 200.7	Cobalt	mg/L	0.902	<0.0060	1.00	90.2	70 - 130	X405008 - X4A0373-03	31-Jan-24	
EPA 200.7	Copper	mg/L	1.05	<0.0100	1.00	105	70 - 130	X405008 - X4A0336-01	31-Jan-24	
EPA 200.7	Copper	mg/L	0.923	<0.0100	1.00	92.3	70 - 130	X405008 - X4A0373-03	31-Jan-24	
EPA 200.7	Iron	mg/L	11.0	<0.100	10.0	110	70 - 130	X405008 - X4A0336-01	31-Jan-24	
EPA 200.7	Iron	mg/L	9.60	<0.100	10.0	96.0	70 - 130	X405008 - X4A0373-03	31-Jan-24	
EPA 200.7	Lead	mg/L	1.06	<0.0075	1.00	106	70 - 130	X405008 - X4A0336-01	31-Jan-24	
EPA 200.7	Lead	mg/L	0.929	<0.0075	1.00	92.9	70 - 130	X405008 - X4A0373-03	31-Jan-24	
EPA 200.7	Lithium	mg/L	1.11	<0.040	1.00	111	70 - 130	X405008 - X4A0336-01	31-Jan-24	
EPA 200.7	Lithium	mg/L	1.01	<0.040	1.00	101	70 - 130	X405008 - X4A0373-03	31-Jan-24	
EPA 200.7	Magnesium	mg/L	21.8	<0.500	20.0	109	70 - 130	X405008 - X4A0336-01	31-Jan-24	
EPA 200.7	Magnesium	mg/L	44.9	26.3	20.0	93.1	70 - 130	X405008 - X4A0373-03	31-Jan-24	
EPA 200.7	Manganese	mg/L	1.11	<0.0080	1.00	111	70 - 130	X405008 - X4A0336-01	31-Jan-24	

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Work Order: **X4A0336**
Reported: 15-Feb-24 12:23

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	0.981	0.0100	1.00	97.1	70 - 130	X405008 - X4A0373-03	31-Jan-24	
EPA 200.7	Molybdenum	mg/L	1.01	<0.0080	1.00	101	70 - 130	X405008 - X4A0336-01	31-Jan-24	
EPA 200.7	Molybdenum	mg/L	0.909	<0.0080	1.00	90.9	70 - 130	X405008 - X4A0373-03	31-Jan-24	
EPA 200.7	Nickel	mg/L	1.05	<0.0100	1.00	105	70 - 130	X405008 - X4A0336-01	31-Jan-24	
EPA 200.7	Nickel	mg/L	0.913	<0.0100	1.00	91.3	70 - 130	X405008 - X4A0373-03	31-Jan-24	
EPA 200.7	Potassium	mg/L	22.5	<0.50	20.0	113	70 - 130	X405008 - X4A0336-01	31-Jan-24	
EPA 200.7	Potassium	mg/L	22.6	2.71	20.0	99.3	70 - 130	X405008 - X4A0373-03	31-Jan-24	
EPA 200.7	Silver	mg/L	0.0546	<0.0050	0.0500	109	70 - 130	X405008 - X4A0336-01	31-Jan-24	
EPA 200.7	Silver	mg/L	0.0491	<0.0050	0.0500	98.3	70 - 130	X405008 - X4A0373-03	31-Jan-24	
EPA 200.7	Sodium	mg/L	21.0	<0.50	19.0	110	70 - 130	X405008 - X4A0336-01	31-Jan-24	
EPA 200.7	Sodium	mg/L	54.8	36.7	19.0	95.6	70 - 130	X405008 - X4A0373-03	31-Jan-24	
EPA 200.7	Vanadium	mg/L	1.07	<0.0050	1.00	107	70 - 130	X405008 - X4A0336-01	31-Jan-24	
EPA 200.7	Vanadium	mg/L	0.942	0.0053	1.00	93.7	70 - 130	X405008 - X4A0373-03	31-Jan-24	
EPA 200.7	Zinc	mg/L	1.07	<0.0100	1.00	107	70 - 130	X405008 - X4A0336-01	31-Jan-24	
EPA 200.7	Zinc	mg/L	0.940	<0.0100	1.00	94.0	70 - 130	X405008 - X4A0373-03	31-Jan-24	
EPA 200.8	Antimony	mg/L	0.0300	<0.00100	0.0250	120	70 - 130	X405051 - X4A0322-01	02-Feb-24	
EPA 200.8	Antimony	mg/L	0.0250	<0.00100	0.0250	100	70 - 130	X405051 - X4A0336-01	02-Feb-24	
EPA 200.8	Arsenic	mg/L	0.0367	0.00318	0.0250	134	70 - 130	X405051 - X4A0322-01	02-Feb-24	M1
EPA 200.8	Arsenic	mg/L	0.0253	<0.00100	0.0250	101	70 - 130	X405051 - X4A0336-01	02-Feb-24	
EPA 200.8	Selenium	mg/L	0.0342	<0.00100	0.0250	134	70 - 130	X405051 - X4A0322-01	02-Feb-24	M1
EPA 200.8	Selenium	mg/L	0.0264	<0.00100	0.0250	106	70 - 130	X405051 - X4A0336-01	02-Feb-24	
EPA 200.8	Thallium	mg/L	0.0285	<0.00100	0.0250	114	70 - 130	X405051 - X4A0322-01	01-Feb-24	D1
EPA 200.8	Thallium	mg/L	0.0255	<0.000200	0.0250	102	70 - 130	X405051 - X4A0336-01	02-Feb-24	
EPA 200.8	Uranium	mg/L	0.0515	0.0248	0.0250	107	70 - 130	X405051 - X4A0322-01	01-Feb-24	D1
EPA 200.8	Uranium	mg/L	0.0255	<0.000100	0.0250	102	70 - 130	X405051 - X4A0336-01	02-Feb-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00203	<0.000200	0.00200	101	70 - 130	X406012 - X4A0331-01	05-Feb-24	
EPA 245.1	Mercury	mg/L	0.00206	<0.000200	0.00200	103	70 - 130	X406012 - X4A0369-01	05-Feb-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.106	<0.0050	0.100	106	79 - 121	X405035 - X4A0336-01	06-Feb-24	
EPA 335.4	Cyanide (total)	mg/L	0.104	<0.0050	0.100	104	90 - 110	X405186 - X4A0336-01	02-Feb-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X405186 - X4A0336-02	02-Feb-24	
EPA 350.1	Ammonia as N	mg/L	1.05	<0.030	1.00	105	90 - 110	X405027 - X4A0283-07	30-Jan-24	
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	101	90 - 110	X405027 - X4A0283-09	30-Jan-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0970	<0.0050	0.100	95.0	82 - 118	X405036 - X4A0213-01	14-Feb-24	H1
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.02	<0.20	3.00	99.0	90 - 110	X404177 - X4A0336-01	25-Jan-24	
EPA 300.0	Fluoride	mg/L	2.07	<0.100	2.00	102	90 - 110	X404177 - X4A0336-01	25-Jan-24	
EPA 300.0	Nitrate as N	mg/L	2.03	<0.050	2.00	101	90 - 110	X404177 - X4A0336-01	25-Jan-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.14	<0.100	4.00	103	90 - 110	X404177 - X4A0336-01	25-Jan-24	
EPA 300.0	Nitrite as N	mg/L	2.11	<0.050	2.00	105	90 - 110	X404177 - X4A0336-01	25-Jan-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	<0.30	10.0	102	90 - 110	X404177 - X4A0336-01	25-Jan-24	

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Work Order: **X4A0336**
Reported: 15-Feb-24 12:23

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	79.9	79.8	20.0	0.1	20	105	X405178 - X4A0314-01	
EPA 200.7	Magnesium	mg/L	43.4	43.3	20.0	0.3	20	107	X405178 - X4A0314-01	
EPA 200.7	Potassium	mg/L	31.1	31.0	20.0	0.4	20	100	X405178 - X4A0314-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	1.07	1.00	5.3	20	101	X405008 - X4A0336-01	
EPA 200.7	Barium	mg/L	1.01	1.11	1.00	10.0	20	101	X405008 - X4A0336-01	
EPA 200.7	Beryllium	mg/L	0.989	1.09	1.00	9.8	20	98.9	X405008 - X4A0336-01	
EPA 200.7	Boron	mg/L	0.969	1.03	1.00	6.1	20	96.9	X405008 - X4A0336-01	
EPA 200.7	Cadmium	mg/L	0.981	1.06	1.00	7.4	20	98.1	X405008 - X4A0336-01	
EPA 200.7	Calcium	mg/L	20.0	21.6	20.0	7.3	20	100	X405008 - X4A0336-01	
EPA 200.7	Chromium	mg/L	1.01	1.11	1.00	9.3	20	101	X405008 - X4A0336-01	
EPA 200.7	Cobalt	mg/L	0.959	1.03	1.00	7.5	20	95.9	X405008 - X4A0336-01	
EPA 200.7	Copper	mg/L	0.953	1.05	1.00	9.3	20	95.3	X405008 - X4A0336-01	
EPA 200.7	Iron	mg/L	10.2	11.0	10.0	7.5	20	102	X405008 - X4A0336-01	
EPA 200.7	Lead	mg/L	0.980	1.06	1.00	7.7	20	98.0	X405008 - X4A0336-01	
EPA 200.7	Lithium	mg/L	0.992	1.11	1.00	11.2	20	99.2	X405008 - X4A0336-01	
EPA 200.7	Magnesium	mg/L	20.1	21.8	20.0	8.0	20	101	X405008 - X4A0336-01	
EPA 200.7	Manganese	mg/L	1.01	1.11	1.00	10.0	20	101	X405008 - X4A0336-01	
EPA 200.7	Molybdenum	mg/L	0.946	1.01	1.00	6.2	20	94.6	X405008 - X4A0336-01	
EPA 200.7	Nickel	mg/L	0.973	1.05	1.00	8.0	20	97.3	X405008 - X4A0336-01	
EPA 200.7	Potassium	mg/L	20.7	22.5	20.0	8.6	20	103	X405008 - X4A0336-01	
EPA 200.7	Silver	mg/L	0.0510	0.0546	0.0500	6.8	20	102	X405008 - X4A0336-01	
EPA 200.7	Sodium	mg/L	19.3	21.0	19.0	8.1	20	101	X405008 - X4A0336-01	
EPA 200.7	Vanadium	mg/L	0.982	1.07	1.00	8.5	20	98.2	X405008 - X4A0336-01	
EPA 200.7	Zinc	mg/L	0.993	1.07	1.00	7.5	20	99.3	X405008 - X4A0336-01	
EPA 200.8	Antimony	mg/L	0.0290	0.0300	0.0250	3.6	20	116	X405051 - X4A0322-01	
EPA 200.8	Arsenic	mg/L	0.0352	0.0367	0.0250	4.1	20	128	X405051 - X4A0322-01	
EPA 200.8	Selenium	mg/L	0.0327	0.0342	0.0250	4.5	20	128	X405051 - X4A0322-01	
EPA 200.8	Thallium	mg/L	0.0312	0.0285	0.0250	9.2	20	125	X405051 - X4A0322-01	D1
EPA 200.8	Uranium	mg/L	0.0557	0.0515	0.0250	7.8	20	124	X405051 - X4A0322-01	D1
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00203	0.00203	0.00200	0.3	20	102	X406012 - X4A0331-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0990	0.106	0.100	6.8	11	99.0	X405035 - X4A0336-01	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.104	0.100	0.8	20	103	X405186 - X4A0336-01	
EPA 350.1	Ammonia as N	mg/L	1.05	1.05	1.00	0.6	20	105	X405027 - X4A0283-07	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.0970	0.100	5.0	11	100	X405036 - X4A0213-01	H1
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.05	3.02	3.00	0.9	20	99.9	X404177 - X4A0336-01	
EPA 300.0	Fluoride	mg/L	2.04	2.07	2.00	1.6	20	100	X404177 - X4A0336-01	
EPA 300.0	Nitrate as N	mg/L	2.03	2.03	2.00	0.1	20	102	X404177 - X4A0336-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.10	4.14	4.00	0.9	20	102	X404177 - X4A0336-01	
EPA 300.0	Nitrite as N	mg/L	2.07	2.11	2.00	1.9	20	103	X404177 - X4A0336-01	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.4	10.0	0.6	20	101	X404177 - X4A0336-01	

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Work Order: **X4A0336**
Reported: 15-Feb-24 12:23

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.
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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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0092**
Reported: 22-Mar-24 10:56

Client Sample ID: **GVMW-25**
SVL Sample ID: **X4C0092-03 (Ground Water)**

Sampled: 06-Mar-24 12:56
Received: 07-Mar-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	435	mg/L	1.00	0.690	10	X411213	SMU	03/19/24 17:50	D2
EPA 200.7	**Magnesium**	290	mg/L	0.500	0.090		X411213	SMU	03/19/24 16:45	
EPA 200.7	**Potassium**	8.27	mg/L	0.50	0.18		X411213	SMU	03/19/24 16:45	
sm 2340B	**Hardness (as CaCO3)**	2280	mg/L	4.56	2.09		N/A		03/21/24 13:52	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	298	mg/L	0.080	0.054		X411026	NMS	03/21/24 13:52	
EPA 200.7	**Barium**	0.0138	mg/L	0.0020	0.0019		X411026	NMS	03/21/24 13:52	
EPA 200.7	**Beryllium**	0.247	mg/L	0.00200	0.00080		X411026	NMS	03/21/24 13:52	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X411026	NMS	03/21/24 13:52	
EPA 200.7	**Cadmium**	0.713	mg/L	0.0020	0.0016		X411026	NMS	03/21/24 13:52	
EPA 200.7	**Calcium**	441	mg/L	0.100	0.069		X411026	NMS	03/21/24 13:52	
EPA 200.7	**Chromium**	0.0378	mg/L	0.0060	0.0020		X411026	NMS	03/21/24 13:52	
EPA 200.7	**Cobalt**	0.793	mg/L	0.0060	0.0046		X411026	NMS	03/21/24 13:52	
EPA 200.7	**Copper**	1.03	mg/L	0.0100	0.0027		X411026	NMS	03/21/24 13:52	
EPA 200.7	**Iron**	0.332	mg/L	0.100	0.056		X411026	NMS	03/21/24 13:52	
EPA 200.7	**Lead**	0.0164	mg/L	0.0075	0.0049		X411026	NMS	03/21/24 13:52	
EPA 200.7	**Lithium**	0.143	mg/L	0.040	0.025		X411026	NMS	03/21/24 13:52	
EPA 200.7	**Magnesium**	266	mg/L	0.500	0.090		X411026	NMS	03/21/24 13:52	
EPA 200.7	**Manganese**	106	mg/L	0.0800	0.0340	10	X411026	NMS	03/21/24 15:05	D2
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X411026	NMS	03/21/24 13:52	
EPA 200.7	**Nickel**	1.29	mg/L	0.0100	0.0048		X411026	NMS	03/21/24 13:52	
EPA 200.7	**Potassium**	8.16	mg/L	0.50	0.18		X411026	NMS	03/21/24 13:52	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X411026	NMS	03/21/24 13:52	
EPA 200.7	**Sodium**	41.8	mg/L	0.50	0.12		X411026	NMS	03/21/24 13:52	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X411026	NMS	03/21/24 13:52	
EPA 200.7	**Zinc**	29.1	mg/L	0.100	0.0540	10	X411026	NMS	03/21/24 15:05	D2
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X410268	SMU	03/18/24 18:28	
EPA 200.8	**Arsenic**	0.165	mg/L	0.00100	0.00021		X410268	SMU	03/18/24 18:28	
EPA 200.8	**Selenium**	0.0117	mg/L	0.00100	0.00024		X410268	SMU	03/18/24 18:28	
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X410268	SMU	03/19/24 10:35	D1
EPA 200.8	**Uranium**	0.874	mg/L	0.00100	0.000520	10	X410268	SMU	03/19/24 10:35	D1
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X411180	MAC	03/15/24 14:01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X411005	DD	03/12/24 12:53	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X411099	DD	03/14/24 10:22	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X411070	DD	03/13/24 13:14	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X412008	DD	03/20/24 10:45	
SM 2310 B	**Acidity to pH 8.3**	2310	mg/L as CaCO3	10.0			X412064	MWD	03/19/24 08:55	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X410252	MWD	03/11/24 14:50	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X410252	MWD	03/11/24 14:50	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X410252	MWD	03/11/24 14:50	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X410252	MWD	03/11/24 14:50	
SM 2540 C	**Total Diss. Solids**	6040	mg/L	40			X410237	TJL	03/12/24 15:10	D2
SM 2540 D	**Total Susp. Solids**	14.0	mg/L	5.0			X410239	TJL	03/12/24 17:00	
SM 4500 H B	**pH @19.2°C**	4.1	pH Units				X410252	MWD	03/11/24 14:50	H5

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0092**
Reported: 22-Mar-24 10:56

Client Sample ID: **GVMW-25**
SVL Sample ID: **X4C0092-03 (Ground Water)**

Sampled: 06-Mar-24 12:56
Received: 07-Mar-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	27.4	mg/L	1.00	0.11	5	X410194	KAG	03/07/24 16:06	D2
EPA 300.0	**Fluoride**	45.0	mg/L	10.0	1.70	100	X410194	KAG	03/07/24 16:24	
EPA 300.0	Nitrate as N	< 0.250	mg/L	0.250	0.065	5	X410194	KAG	03/07/24 16:06	D1
EPA 300.0	Nitrate+Nitrite as N	< 0.500	mg/L	0.500	0.220	5	X410194	KAG	03/07/24 16:06	D1
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X410194	KAG	03/07/24 16:06	D1
EPA 300.0	**Sulfate as SO4**	4830	mg/L	75.0	45.0	250	X410194	KAG	03/08/24 11:36	D2
Cation/Anion Balance and TDS Ratios										

Cation Sum: 91.8 meq/L Anion Sum: 104 meq/L C/A Balance: -6.09 % Calculated TDS: 5668 TDS/cTDS: 1.07

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

Kathryn Salter
Project Manager

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0092**
Reported: 22-Mar-24 10:56

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	X411213	19-Mar-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X411213	19-Mar-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X411213	19-Mar-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X411026	21-Mar-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X411026	21-Mar-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X411026	21-Mar-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X411026	21-Mar-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X411026	21-Mar-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X411026	21-Mar-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X411026	21-Mar-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X411026	21-Mar-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X411026	21-Mar-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X411026	21-Mar-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X411026	21-Mar-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X411026	21-Mar-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X411026	21-Mar-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X411026	21-Mar-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X411026	21-Mar-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X411026	21-Mar-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X411026	21-Mar-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X411026	21-Mar-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X411026	21-Mar-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X411026	21-Mar-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X411026	21-Mar-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X410268	18-Mar-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X410268	18-Mar-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X410268	18-Mar-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X410268	19-Mar-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X410268	18-Mar-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X411180	15-Mar-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X411005	12-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X411099	14-Mar-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X411070	13-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X412008	20-Mar-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X412064	19-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X410252	11-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X410252	11-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X410252	11-Mar-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X410252	11-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X410237	12-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X410239	12-Mar-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X410194	07-Mar-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X410194	07-Mar-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X410194	07-Mar-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X410194	07-Mar-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X410194	07-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X410194	07-Mar-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0092**
Reported: 22-Mar-24 10:56

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	19.2	20.0	96	85 - 115	X411213	19-Mar-24	
EPA 200.7	Magnesium	mg/L	19.9	20.0	99.6	85 - 115	X411213	19-Mar-24	
EPA 200.7	Potassium	mg/L	18.8	20.0	94.1	85 - 115	X411213	19-Mar-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.952	1.00	95.2	85 - 115	X411026	21-Mar-24	
EPA 200.7	Barium	mg/L	0.911	1.00	91.1	85 - 115	X411026	21-Mar-24	
EPA 200.7	Beryllium	mg/L	1.05	1.00	105	85 - 115	X411026	21-Mar-24	
EPA 200.7	Boron	mg/L	0.960	1.00	96.0	85 - 115	X411026	21-Mar-24	
EPA 200.7	Cadmium	mg/L	0.972	1.00	97.2	85 - 115	X411026	21-Mar-24	
EPA 200.7	Calcium	mg/L	19.4	20.0	97.0	85 - 115	X411026	21-Mar-24	
EPA 200.7	Chromium	mg/L	0.966	1.00	96.6	85 - 115	X411026	21-Mar-24	
EPA 200.7	Cobalt	mg/L	0.955	1.00	95.5	85 - 115	X411026	21-Mar-24	
EPA 200.7	Copper	mg/L	0.959	1.00	95.9	85 - 115	X411026	21-Mar-24	
EPA 200.7	Iron	mg/L	9.84	10.0	98.4	85 - 115	X411026	21-Mar-24	
EPA 200.7	Lead	mg/L	0.967	1.00	96.7	85 - 115	X411026	21-Mar-24	
EPA 200.7	Lithium	mg/L	0.965	1.00	96.5	85 - 115	X411026	21-Mar-24	
EPA 200.7	Magnesium	mg/L	18.6	20.0	92.9	85 - 115	X411026	21-Mar-24	
EPA 200.7	Manganese	mg/L	0.978	1.00	97.8	85 - 115	X411026	21-Mar-24	
EPA 200.7	Molybdenum	mg/L	0.979	1.00	97.9	85 - 115	X411026	21-Mar-24	
EPA 200.7	Nickel	mg/L	0.960	1.00	96.0	85 - 115	X411026	21-Mar-24	
EPA 200.7	Potassium	mg/L	19.8	20.0	98.8	85 - 115	X411026	21-Mar-24	
EPA 200.7	Silver	mg/L	0.0482	0.0500	96.3	85 - 115	X411026	21-Mar-24	
EPA 200.7	Sodium	mg/L	18.2	19.0	95.8	85 - 115	X411026	21-Mar-24	
EPA 200.7	Vanadium	mg/L	0.986	1.00	98.6	85 - 115	X411026	21-Mar-24	
EPA 200.7	Zinc	mg/L	0.970	1.00	97.0	85 - 115	X411026	21-Mar-24	
EPA 200.8	Antimony	mg/L	0.0254	0.0250	101	85 - 115	X410268	18-Mar-24	
EPA 200.8	Arsenic	mg/L	0.0244	0.0250	97.8	85 - 115	X410268	18-Mar-24	
EPA 200.8	Selenium	mg/L	0.0245	0.0250	98.1	85 - 115	X410268	18-Mar-24	
EPA 200.8	Thallium	mg/L	0.0254	0.0250	102	85 - 115	X410268	19-Mar-24	
EPA 200.8	Uranium	mg/L	0.0265	0.0250	106	85 - 115	X410268	18-Mar-24	M1
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00193	0.00200	96.7	85 - 115	X411180	15-Mar-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0910	0.100	91.0	90 - 110	X411005	12-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X411099	14-Mar-24	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X411070	13-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0940	0.100	94.0	90 - 110	X412008	20-Mar-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1660	1640	101	95.4 - 104	X412064	19-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.80	9.93	98.7	96.4 - 105	X410252	11-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	98.4	99.3	99.1	96.4 - 105	X410252	11-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X410239	12-Mar-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.04	3.00	101	90 - 110	X410194	07-Mar-24	
EPA 300.0	Fluoride	mg/L	2.00	2.00	100	90 - 110	X410194	07-Mar-24	
EPA 300.0	Nitrate as N	mg/L	2.03	2.00	101	90 - 110	X410194	07-Mar-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.56	4.50	101	90 - 110	X410194	07-Mar-24	
EPA 300.0	Nitrite as N	mg/L	2.53	2.50	101	90 - 110	X410194	07-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X410194	07-Mar-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0092**
Reported: 22-Mar-24 10:56

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 CaCO3	79.0	79.0	0.0	20	X412064 - X4C0092-01	19-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0	<1.0	UDL	20	X410252 - X4C0092-02	11-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X410252 - X4C0092-02	11-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X410252 - X4C0092-02	11-Mar-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X410252 - X4C0092-02	11-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	288	301	4.4	10	X410237 - X4C0106-01	12-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	573	608	5.9	10	X410237 - X4C0092-02	12-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X410239 - X4C0092-02	12-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	6.0	UDL	10	X410239 - X4C0106-01	12-Mar-24	
SM 4500 H B	pH @19.4°C	pH Units	3.4	3.6	5.7	20	X410252 - X4C0092-02	11-Mar-24	R2B

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	44.5	25.6	20.0	95	70 - 130	X411213 - X4C0091-01	19-Mar-24	
EPA 200.7	Calcium	mg/L	72.3	52.2	20.0	100	70 - 130	X411213 - X4C0129-02	19-Mar-24	
EPA 200.7	Magnesium	mg/L	33.3	13.3	20.0	100	70 - 130	X411213 - X4C0091-01	19-Mar-24	
EPA 200.7	Magnesium	mg/L	33.8	13.5	20.0	101	70 - 130	X411213 - X4C0129-02	19-Mar-24	
EPA 200.7	Potassium	mg/L	23.3	4.32	20.0	94.7	70 - 130	X411213 - X4C0091-01	19-Mar-24	
EPA 200.7	Potassium	mg/L	20.6	1.25	20.0	96.5	70 - 130	X411213 - X4C0129-02	19-Mar-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	2.06	1.08	1.00	97.6	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Aluminum	mg/L	113	115	1.00	0.30R>S	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1,M4
EPA 200.7	Barium	mg/L	0.934	0.0132	1.00	92.0	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Barium	mg/L	0.936	<0.200	1.00	93.6	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.7	Beryllium	mg/L	1.09	0.0639	1.00	102	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Beryllium	mg/L	1.13	<0.200	1.00	113	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.7	Boron	mg/L	0.988	<0.0400	1.00	97.2	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Boron	mg/L	<4.00	<4.00	1.00	104	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.7	Cadmium	mg/L	0.972	0.0032	1.00	96.9	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Cadmium	mg/L	1.03	<0.200	1.00	103	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.7	Calcium	mg/L	82.8	63.6	20.0	95.8	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Calcium	mg/L	491	475	20.0	81.9	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.7	Chromium	mg/L	0.958	<0.0060	1.00	95.8	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Chromium	mg/L	0.921	<0.600	1.00	92.1	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.7	Cobalt	mg/L	1.05	0.108	1.00	94.6	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Cobalt	mg/L	2.36	1.39	1.00	97.1	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.7	Copper	mg/L	0.978	<0.0100	1.00	97.8	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Copper	mg/L	293	302	1.00	0.30R>S	70 - 130	X411026 - X4C0124-04	21-Mar-24	D2,M4
EPA 200.7	Iron	mg/L	40.7	31.3	10.0	94.6	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Iron	mg/L	<10.0	<10.0	10.0	99.7	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.7	Lead	mg/L	1.03	0.0720	1.00	96.1	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Lead	mg/L	1.20	<0.750	1.00	120	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.7	Lithium	mg/L	1.01	<0.040	1.00	97.9	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Lithium	mg/L	<4.00	<4.00	1.00	N/A	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1,M4
EPA 200.7	Magnesium	mg/L	52.7	32.6	20.0	101	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Magnesium	mg/L	250	251	20.0	0.30R>S	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1,M4

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0092**
Reported: 22-Mar-24 10:56

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	2.88	1.95	1.00	93.9	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Manganese	mg/L	73.6	73.3	1.00	0.30R>S	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1,M4
EPA 200.7	Molybdenum	mg/L	0.972	<0.0080	1.00	97.2	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Molybdenum	mg/L	1.06	<0.800	1.00	106	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.7	Nickel	mg/L	1.16	0.215	1.00	94.6	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Nickel	mg/L	1.42	<1.00	1.00	142	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1,M4
EPA 200.7	Potassium	mg/L	22.4	2.49	20.0	99.8	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Potassium	mg/L	<50.0	<50.0	20.0	173	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1,M4
EPA 200.7	Silver	mg/L	0.0472	<0.0050	0.0500	94.4	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Silver	mg/L	<0.500	<0.500	0.0500	N/A	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1,M4
EPA 200.7	Sodium	mg/L	32.3	13.7	19.0	97.8	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Sodium	mg/L	<50.0	<50.0	19.0	55.6	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1,M4
EPA 200.7	Vanadium	mg/L	0.983	<0.0050	1.00	98.3	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Vanadium	mg/L	1.10	<0.500	1.00	110	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.7	Zinc	mg/L	2.74	1.85	1.00	89.6	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Zinc	mg/L	9.95	9.15	1.00	79.1	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.8	Antimony	mg/L	0.0283	<0.00100	0.0250	113	70 - 130	X410268 - X4C0092-01	18-Mar-24	
EPA 200.8	Antimony	mg/L	0.0309	0.00152	0.0250	117	70 - 130	X410268 - X4C0119-01	18-Mar-24	
EPA 200.8	Arsenic	mg/L	0.0297	<0.00100	0.0250	117	70 - 130	X410268 - X4C0092-01	18-Mar-24	
EPA 200.8	Arsenic	mg/L	0.0392	0.00705	0.0250	129	70 - 130	X410268 - X4C0119-01	18-Mar-24	
EPA 200.8	Selenium	mg/L	0.0299	<0.00100	0.0250	120	70 - 130	X410268 - X4C0092-01	18-Mar-24	
EPA 200.8	Selenium	mg/L	0.0355	<0.00100	0.0250	142	70 - 130	X410268 - X4C0119-01	18-Mar-24	M1
EPA 200.8	Thallium	mg/L	0.0248	<0.000200	0.0250	99.1	70 - 130	X410268 - X4C0092-01	19-Mar-24	
EPA 200.8	Thallium	mg/L	0.0238	<0.000200	0.0250	95.3	70 - 130	X410268 - X4C0119-01	19-Mar-24	
EPA 200.8	Uranium	mg/L	0.0446	0.00962	0.0250	140	70 - 130	X410268 - X4C0092-01	18-Mar-24	M1
EPA 200.8	Uranium	mg/L	0.0382	0.000237	0.0250	152	70 - 130	X410268 - X4C0119-01	18-Mar-24	M1
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00202	<0.000200	0.00200	101	70 - 130	X411180 - X4C0051-01	15-Mar-24	
EPA 245.1	Mercury	mg/L	0.00204	<0.000200	0.00200	102	70 - 130	X411180 - X4C0092-04	15-Mar-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.105	<0.0050	0.100	105	79 - 121	X411005 - X4C0028-04	12-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X411099 - X4C0061-01	14-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	0.0976	<0.0050	0.100	97.6	90 - 110	X411099 - X4C0092-01	14-Mar-24	
EPA 350.1	Ammonia as N	mg/L	1.09	<0.030	1.00	109	90 - 110	X411070 - X4C0127-01	13-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0950	<0.0050	0.100	94.0	82 - 118	X412008 - X4C0061-01	20-Mar-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.17	<0.20	3.00	102	90 - 110	X410194 - X4C0092-04	07-Mar-24	
EPA 300.0	Fluoride	mg/L	2.05	<0.100	2.00	101	90 - 110	X410194 - X4C0092-04	07-Mar-24	
EPA 300.0	Nitrate as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X410194 - X4C0092-04	07-Mar-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.11	<0.100	4.00	103	90 - 110	X410194 - X4C0092-04	07-Mar-24	
EPA 300.0	Nitrite as N	mg/L	2.07	<0.050	2.00	104	90 - 110	X410194 - X4C0092-04	07-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	10.6	<0.30	10.0	104	90 - 110	X410194 - X4C0092-04	07-Mar-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0092**
Reported: 22-Mar-24 10:56

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	45.1	44.5	20.0	1.0	20	97	X411213 - X4C0091-01	
EPA 200.7	Magnesium	mg/L	33.3	33.3	20.0	0.2	20	100	X411213 - X4C0091-01	
EPA 200.7	Potassium	mg/L	23.6	23.3	20.0	1.2	20	96.1	X411213 - X4C0091-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	2.03	2.06	1.00	1.6	20	94.3	X411026 - X4C0092-01	
EPA 200.7	Barium	mg/L	0.913	0.934	1.00	2.2	20	90.0	X411026 - X4C0092-01	
EPA 200.7	Beryllium	mg/L	1.08	1.09	1.00	0.3	20	102	X411026 - X4C0092-01	
EPA 200.7	Boron	mg/L	0.965	0.988	1.00	2.3	20	95.0	X411026 - X4C0092-01	
EPA 200.7	Cadmium	mg/L	0.943	0.972	1.00	3.0	20	94.0	X411026 - X4C0092-01	
EPA 200.7	Calcium	mg/L	82.4	82.8	20.0	0.4	20	94.3	X411026 - X4C0092-01	
EPA 200.7	Chromium	mg/L	0.937	0.958	1.00	2.3	20	93.7	X411026 - X4C0092-01	
EPA 200.7	Cobalt	mg/L	1.02	1.05	1.00	2.8	20	91.7	X411026 - X4C0092-01	
EPA 200.7	Copper	mg/L	0.959	0.978	1.00	1.9	20	95.9	X411026 - X4C0092-01	
EPA 200.7	Iron	mg/L	40.5	40.7	10.0	0.5	20	92.4	X411026 - X4C0092-01	
EPA 200.7	Lead	mg/L	1.00	1.03	1.00	2.9	20	93.1	X411026 - X4C0092-01	
EPA 200.7	Lithium	mg/L	0.990	1.01	1.00	2.3	20	95.6	X411026 - X4C0092-01	
EPA 200.7	Magnesium	mg/L	51.0	52.7	20.0	3.2	20	92.4	X411026 - X4C0092-01	
EPA 200.7	Manganese	mg/L	2.85	2.88	1.00	1.2	20	90.5	X411026 - X4C0092-01	
EPA 200.7	Molybdenum	mg/L	0.951	0.972	1.00	2.2	20	95.1	X411026 - X4C0092-01	
EPA 200.7	Nickel	mg/L	1.13	1.16	1.00	2.9	20	91.3	X411026 - X4C0092-01	
EPA 200.7	Potassium	mg/L	22.1	22.4	20.0	1.4	20	98.2	X411026 - X4C0092-01	
EPA 200.7	Silver	mg/L	0.0460	0.0472	0.0500	2.6	20	92.0	X411026 - X4C0092-01	
EPA 200.7	Sodium	mg/L	31.9	32.3	19.0	1.1	20	95.9	X411026 - X4C0092-01	
EPA 200.7	Vanadium	mg/L	0.961	0.983	1.00	2.2	20	96.1	X411026 - X4C0092-01	
EPA 200.7	Zinc	mg/L	2.67	2.74	1.00	2.8	20	82.1	X411026 - X4C0092-01	
EPA 200.8	Antimony	mg/L	0.0268	0.0283	0.0250	5.6	20	107	X410268 - X4C0092-01	
EPA 200.8	Arsenic	mg/L	0.0282	0.0297	0.0250	5.3	20	111	X410268 - X4C0092-01	
EPA 200.8	Selenium	mg/L	0.0284	0.0299	0.0250	5.0	20	114	X410268 - X4C0092-01	
EPA 200.8	Thallium	mg/L	0.0250	0.0248	0.0250	0.9	20	100	X410268 - X4C0092-01	
EPA 200.8	Uranium	mg/L	0.0426	0.0446	0.0250	4.5	20	132	X410268 - X4C0092-01	M1
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00197	0.00202	0.00200	2.8	20	98.3	X411180 - X4C0051-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.107	0.105	0.100	1.9	11	107	X411005 - X4C0028-04	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.103	0.100	1.4	20	102	X411099 - X4C0061-01	
EPA 350.1	Ammonia as N	mg/L	1.09	1.09	1.00	0.6	20	109	X411070 - X4C0127-01	
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.0950	0.100	8.1	11	102	X412008 - X4C0061-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.19	3.17	3.00	0.5	20	103	X410194 - X4C0092-04	
EPA 300.0	Fluoride	mg/L	2.07	2.05	2.00	0.7	20	102	X410194 - X4C0092-04	
EPA 300.0	Nitrate as N	mg/L	2.05	2.04	2.00	0.6	20	103	X410194 - X4C0092-04	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.13	4.11	4.00	0.4	20	103	X410194 - X4C0092-04	
EPA 300.0	Nitrite as N	mg/L	2.08	2.07	2.00	0.3	20	104	X410194 - X4C0092-04	
EPA 300.0	Sulfate as SO4	mg/L	10.8	10.6	10.0	1.1	20	106	X410194 - X4C0092-04	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4C0092**
Victor, CO 80860	Reported: 22-Mar-24 10:56

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.
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: **X4C0180**
Reported: 28-Mar-24 09:21

Client Sample ID: **GVMW-22A**
SVL Sample ID: **X4C0180-02 (Ground Water)**

Sampled: 12-Mar-24 14:49
Received: 13-Mar-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	30.8	mg/L	0.100	0.069		X412175	NMS	03/26/24 09:32	
EPA 200.7	**Magnesium**	12.3	mg/L	0.500	0.090		X412175	NMS	03/26/24 09:32	
EPA 200.7	**Potassium**	1.24	mg/L	0.50	0.18		X412175	NMS	03/26/24 09:32	
SM 2340 B	**Hardness (as CaCO3)**	128	mg/L	2.31	0.543		N/A		03/26/24 10:51	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X412126	NMS	03/26/24 10:51	
EPA 200.7	**Barium**	0.106	mg/L	0.0020	0.0019		X412126	NMS	03/26/24 10:51	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X412126	NMS	03/26/24 10:51	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X412126	NMS	03/26/24 10:51	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X412126	NMS	03/26/24 10:51	
EPA 200.7	**Calcium**	29.6	mg/L	0.100	0.069		X412126	NMS	03/26/24 10:51	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X412126	NMS	03/26/24 10:51	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X412126	NMS	03/26/24 10:51	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X412126	NMS	03/26/24 10:51	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X412126	NMS	03/26/24 10:51	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X412126	NMS	03/26/24 10:51	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X412126	NMS	03/26/24 10:51	
EPA 200.7	**Magnesium**	12.6	mg/L	0.500	0.090		X412126	NMS	03/26/24 10:51	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X412126	NMS	03/26/24 10:51	
EPA 200.7	**Molybdenum**	0.0098	mg/L	0.0080	0.0034		X412126	NMS	03/26/24 10:51	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X412126	NMS	03/26/24 10:51	
EPA 200.7	**Potassium**	1.20	mg/L	0.50	0.18		X412126	NMS	03/26/24 10:51	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X412126	NMS	03/26/24 10:51	
EPA 200.7	**Sodium**	36.5	mg/L	0.50	0.12		X412126	NMS	03/26/24 10:51	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X412126	NMS	03/26/24 10:51	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X412126	NMS	03/26/24 10:51	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X412059	SMU	03/25/24 15:18	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X412059	SMU	03/25/24 15:18	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X412059	SMU	03/25/24 15:18	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X412059	SMU	03/25/24 15:18	
EPA 200.8	**Uranium**	0.00349	mg/L	0.000100	0.000052		X412059	SMU	03/25/24 15:18	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X413001	MAC	03/25/24 15:21	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X412201	DD	03/21/24 15:00	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X411155	DD	03/14/24 14:52	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X412042	DD	03/20/24 10:20	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X412008	DD	03/20/24 10:51	
SM 2310 B	**Acidity to pH 8.3**	-158	mg/L as CaCO3	10.0			X413007	MWD	03/25/24 08:55	
SM 2320 B	**Total Alkalinity**	165	mg/L as CaCO3	1.0			X412017	MWD	03/18/24 13:50	
SM 2320 B	**Bicarbonate**	165	mg/L as CaCO3	1.0			X412017	MWD	03/18/24 13:50	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X412017	MWD	03/18/24 13:50	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X412017	MWD	03/18/24 13:50	
SM 2540 C	**Total Diss. Solids**	233	mg/L	10			X411145	TJL	03/15/24 14:55	
SM 2540 D	**Total Susp. Solids**	5.0	mg/L	5.0			X411146	TJL	03/15/24 16:35	
SM 4500 H B	**pH @22.1°C**	7.9	pH Units				X412017	MWD	03/18/24 13:50	H5

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0180**
Reported: 28-Mar-24 09:21

Client Sample ID: **GVMW-22A**
SVL Sample ID: **X4C0180-02 (Ground Water)**

Sampled: 12-Mar-24 14:49
Received: 13-Mar-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	4.19	mg/L	0.20	0.02		X411126	KAG	03/13/24 17:22	
EPA 300.0	**Fluoride**	2.19	mg/L	0.100	0.017		X411126	KAG	03/13/24 17:22	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X411126	KAG	03/13/24 17:22	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X411126	KAG	03/13/24 17:22	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X411126	KAG	03/13/24 17:22	
EPA 300.0	**Sulfate as SO4**	35.4	mg/L	0.30	0.18		X411126	KAG	03/13/24 17:22	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.12 meq/L Anion Sum: 4.27 meq/L C/A Balance: -1.77 % Calculated TDS: 221 TDS/cTDS: 1.05

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

Kathryn Salter
Project Manager

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0180**
Reported: 28-Mar-24 09:21

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	X412175	26-Mar-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X412175	26-Mar-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X412175	26-Mar-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X412126	26-Mar-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X412126	26-Mar-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X412126	26-Mar-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X412126	26-Mar-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X412126	26-Mar-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X412126	26-Mar-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X412126	26-Mar-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X412126	26-Mar-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X412126	26-Mar-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X412126	26-Mar-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X412126	26-Mar-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X412126	26-Mar-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X412126	26-Mar-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X412126	26-Mar-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X412126	26-Mar-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X412126	26-Mar-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X412126	26-Mar-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X412126	26-Mar-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X412126	26-Mar-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X412126	26-Mar-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X412126	26-Mar-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X412059	25-Mar-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X412059	25-Mar-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X412059	25-Mar-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X412059	25-Mar-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X412059	25-Mar-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X413001	25-Mar-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X412010	21-Mar-24	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X412201	21-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X411155	14-Mar-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X412042	20-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X412008	20-Mar-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X413007	25-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X412017	18-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X412017	18-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X412017	18-Mar-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X412017	18-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X411145	15-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X411146	15-Mar-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X411126	13-Mar-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X411126	13-Mar-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X411126	13-Mar-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X411126	13-Mar-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X411126	13-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X411126	13-Mar-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0180**
Reported: 28-Mar-24 09:21

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	20.2	20.0	101	85 - 115	X412175	26-Mar-24	
EPA 200.7	Magnesium	mg/L	20.4	20.0	102	85 - 115	X412175	26-Mar-24	
EPA 200.7	Potassium	mg/L	20.9	20.0	104	85 - 115	X412175	26-Mar-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.978	1.00	97.8	85 - 115	X412126	26-Mar-24	
EPA 200.7	Barium	mg/L	0.999	1.00	99.9	85 - 115	X412126	26-Mar-24	
EPA 200.7	Beryllium	mg/L	0.984	1.00	98.4	85 - 115	X412126	26-Mar-24	
EPA 200.7	Boron	mg/L	0.998	1.00	99.8	85 - 115	X412126	26-Mar-24	
EPA 200.7	Cadmium	mg/L	0.978	1.00	97.8	85 - 115	X412126	26-Mar-24	
EPA 200.7	Calcium	mg/L	20.1	20.0	101	85 - 115	X412126	26-Mar-24	
EPA 200.7	Chromium	mg/L	0.987	1.00	98.7	85 - 115	X412126	26-Mar-24	
EPA 200.7	Cobalt	mg/L	0.965	1.00	96.5	85 - 115	X412126	26-Mar-24	
EPA 200.7	Copper	mg/L	0.987	1.00	98.7	85 - 115	X412126	26-Mar-24	
EPA 200.7	Iron	mg/L	10.3	10.0	103	85 - 115	X412126	26-Mar-24	
EPA 200.7	Lead	mg/L	0.980	1.00	98.0	85 - 115	X412126	26-Mar-24	
EPA 200.7	Lithium	mg/L	0.973	1.00	97.3	85 - 115	X412126	26-Mar-24	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X412126	26-Mar-24	
EPA 200.7	Manganese	mg/L	0.999	1.00	99.9	85 - 115	X412126	26-Mar-24	
EPA 200.7	Molybdenum	mg/L	0.992	1.00	99.2	85 - 115	X412126	26-Mar-24	
EPA 200.7	Nickel	mg/L	0.964	1.00	96.4	85 - 115	X412126	26-Mar-24	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.5	85 - 115	X412126	26-Mar-24	
EPA 200.7	Silver	mg/L	0.0465	0.0500	92.9	85 - 115	X412126	26-Mar-24	
EPA 200.7	Sodium	mg/L	18.9	19.0	99.4	85 - 115	X412126	26-Mar-24	
EPA 200.7	Vanadium	mg/L	1.00	1.00	100	85 - 115	X412126	26-Mar-24	
EPA 200.7	Zinc	mg/L	0.975	1.00	97.5	85 - 115	X412126	26-Mar-24	
EPA 200.8	Antimony	mg/L	0.0222	0.0250	89.0	85 - 115	X412059	25-Mar-24	
EPA 200.8	Arsenic	mg/L	0.0228	0.0250	91.3	85 - 115	X412059	25-Mar-24	
EPA 200.8	Selenium	mg/L	0.0230	0.0250	92.1	85 - 115	X412059	25-Mar-24	
EPA 200.8	Thallium	mg/L	0.0222	0.0250	88.8	85 - 115	X412059	25-Mar-24	
EPA 200.8	Uranium	mg/L	0.0225	0.0250	89.9	85 - 115	X412059	25-Mar-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00205	0.00200	103	85 - 115	X413001	25-Mar-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0920	0.100	92.0	90 - 110	X412010	21-Mar-24	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.103	0.100	103	90 - 110	X412201	21-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	0.0995	0.100	99.5	90 - 110	X411155	14-Mar-24	
EPA 350.1	Ammonia as N	mg/L	0.985	1.00	98.5	90 - 110	X412042	20-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0940	0.100	94.0	90 - 110	X412008	20-Mar-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1660	1640	101	95.4 - 104	X413007	25-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	96.4 - 105	X412017	18-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	98.7	99.3	99.4	96.4 - 105	X412017	18-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X411146	15-Mar-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.04	3.00	101	90 - 110	X411126	13-Mar-24	
EPA 300.0	Fluoride	mg/L	2.03	2.00	101	90 - 110	X411126	13-Mar-24	
EPA 300.0	Nitrate as N	mg/L	2.05	2.00	103	90 - 110	X411126	13-Mar-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.67	4.50	104	90 - 110	X411126	13-Mar-24	
EPA 300.0	Nitrite as N	mg/L	2.61	2.50	105	90 - 110	X411126	13-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X411126	13-Mar-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0180**
Reported: 28-Mar-24 09:21

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	1710	1710	0.0	20	X413007 - X4C0154-01	25-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	153	155	1.2	20	X412017 - X4C0180-01	18-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	153	155	1.2	20	X412017 - X4C0180-01	18-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X412017 - X4C0180-01	18-Mar-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X412017 - X4C0180-01	18-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	228	233	2.2	10	X411145 - X4C0180-02	15-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	241	239	0.8	10	X411145 - X4C0183-02	15-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	5.0	5.0	0.0	10	X411146 - X4C0180-02	15-Mar-24	
SM 4500 H B	pH @22.6°C	pH Units	7.3	7.7	4.7	20	X412017 - X4C0180-01	18-Mar-24	R2B

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	56.9	36.7	20.0	101	70 - 130	X412175 - X4C0180-01	26-Mar-24	
EPA 200.7	Calcium	mg/L	159	138	20.0	108	70 - 130	X412175 - X4C0232-04	26-Mar-24	
EPA 200.7	Magnesium	mg/L	37.3	16.4	20.0	105	70 - 130	X412175 - X4C0180-01	26-Mar-24	
EPA 200.7	Magnesium	mg/L	57.3	36.1	20.0	106	70 - 130	X412175 - X4C0232-04	26-Mar-24	
EPA 200.7	Potassium	mg/L	22.0	0.88	20.0	105	70 - 130	X412175 - X4C0180-01	26-Mar-24	
EPA 200.7	Potassium	mg/L	27.0	5.57	20.0	107	70 - 130	X412175 - X4C0232-04	26-Mar-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.00	<0.080	1.00	100	70 - 130	X412126 - X4C0118-01	26-Mar-24	
EPA 200.7	Aluminum	mg/L	0.959	<0.080	1.00	95.9	70 - 130	X412126 - X4C0237-02	26-Mar-24	
EPA 200.7	Barium	mg/L	1.01	0.0135	1.00	99.5	70 - 130	X412126 - X4C0118-01	26-Mar-24	
EPA 200.7	Barium	mg/L	0.983	0.0248	1.00	95.8	70 - 130	X412126 - X4C0237-02	26-Mar-24	
EPA 200.7	Beryllium	mg/L	1.01	<0.00200	1.00	101	70 - 130	X412126 - X4C0118-01	26-Mar-24	
EPA 200.7	Beryllium	mg/L	0.991	<0.00200	1.00	99.1	70 - 130	X412126 - X4C0237-02	26-Mar-24	
EPA 200.7	Boron	mg/L	1.06	<0.0400	1.00	104	70 - 130	X412126 - X4C0118-01	26-Mar-24	
EPA 200.7	Boron	mg/L	1.07	<0.0400	1.00	104	70 - 130	X412126 - X4C0237-02	26-Mar-24	
EPA 200.7	Cadmium	mg/L	1.01	<0.0020	1.00	101	70 - 130	X412126 - X4C0118-01	26-Mar-24	
EPA 200.7	Cadmium	mg/L	0.971	0.0049	1.00	96.6	70 - 130	X412126 - X4C0237-02	26-Mar-24	
EPA 200.7	Calcium	mg/L	83.3	62.8	20.0	103	70 - 130	X412126 - X4C0118-01	26-Mar-24	
EPA 200.7	Calcium	mg/L	547	507	20.0	0.30R>S	70 - 130	X412126 - X4C0237-02	26-Mar-24	M3
EPA 200.7	Chromium	mg/L	1.02	<0.0060	1.00	102	70 - 130	X412126 - X4C0118-01	26-Mar-24	
EPA 200.7	Chromium	mg/L	0.990	<0.0060	1.00	99.0	70 - 130	X412126 - X4C0237-02	26-Mar-24	
EPA 200.7	Cobalt	mg/L	0.983	<0.0060	1.00	98.3	70 - 130	X412126 - X4C0118-01	26-Mar-24	
EPA 200.7	Cobalt	mg/L	0.978	<0.0060	1.00	97.8	70 - 130	X412126 - X4C0237-02	26-Mar-24	
EPA 200.7	Copper	mg/L	1.01	<0.0100	1.00	101	70 - 130	X412126 - X4C0118-01	26-Mar-24	
EPA 200.7	Copper	mg/L	1.05	0.0151	1.00	104	70 - 130	X412126 - X4C0237-02	26-Mar-24	
EPA 200.7	Iron	mg/L	10.2	<0.100	10.0	102	70 - 130	X412126 - X4C0118-01	26-Mar-24	
EPA 200.7	Iron	mg/L	10.0	<0.100	10.0	100	70 - 130	X412126 - X4C0237-02	26-Mar-24	
EPA 200.7	Lead	mg/L	1.00	<0.0075	1.00	100	70 - 130	X412126 - X4C0118-01	26-Mar-24	
EPA 200.7	Lead	mg/L	0.968	<0.0075	1.00	96.8	70 - 130	X412126 - X4C0237-02	26-Mar-24	
EPA 200.7	Lithium	mg/L	1.02	<0.040	1.00	102	70 - 130	X412126 - X4C0118-01	26-Mar-24	
EPA 200.7	Lithium	mg/L	0.909	<0.040	1.00	90.9	70 - 130	X412126 - X4C0237-02	26-Mar-24	
EPA 200.7	Magnesium	mg/L	26.0	5.85	20.0	101	70 - 130	X412126 - X4C0118-01	26-Mar-24	
EPA 200.7	Magnesium	mg/L	186	166	20.0	97.9	70 - 130	X412126 - X4C0237-02	26-Mar-24	
EPA 200.7	Manganese	mg/L	1.04	<0.0080	1.00	104	70 - 130	X412126 - X4C0118-01	26-Mar-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0180**
Reported: 28-Mar-24 09:21

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	1.01	0.0126	1.00	99.7	70 - 130	X412126 - X4C0237-02	26-Mar-24	
EPA 200.7	Molybdenum	mg/L	1.03	<0.0080	1.00	102	70 - 130	X412126 - X4C0118-01	26-Mar-24	
EPA 200.7	Molybdenum	mg/L	1.03	0.0111	1.00	102	70 - 130	X412126 - X4C0237-02	26-Mar-24	
EPA 200.7	Nickel	mg/L	0.989	0.0135	1.00	97.5	70 - 130	X412126 - X4C0118-01	26-Mar-24	
EPA 200.7	Nickel	mg/L	0.978	<0.0100	1.00	97.2	70 - 130	X412126 - X4C0237-02	26-Mar-24	
EPA 200.7	Potassium	mg/L	20.8	1.02	20.0	99.0	70 - 130	X412126 - X4C0118-01	26-Mar-24	
EPA 200.7	Potassium	mg/L	25.1	4.40	20.0	104	70 - 130	X412126 - X4C0237-02	26-Mar-24	
EPA 200.7	Silver	mg/L	0.0446	<0.0050	0.0500	89.3	70 - 130	X412126 - X4C0118-01	26-Mar-24	
EPA 200.7	Silver	mg/L	0.0478	<0.0050	0.0500	95.5	70 - 130	X412126 - X4C0237-02	26-Mar-24	
EPA 200.7	Sodium	mg/L	30.4	11.5	19.0	99.6	70 - 130	X412126 - X4C0118-01	26-Mar-24	
EPA 200.7	Sodium	mg/L	108	85.2	19.0	118	70 - 130	X412126 - X4C0237-02	26-Mar-24	
EPA 200.7	Vanadium	mg/L	1.04	<0.0050	1.00	104	70 - 130	X412126 - X4C0118-01	26-Mar-24	
EPA 200.7	Vanadium	mg/L	1.03	<0.0050	1.00	103	70 - 130	X412126 - X4C0237-02	26-Mar-24	
EPA 200.7	Zinc	mg/L	1.02	<0.0100	1.00	102	70 - 130	X412126 - X4C0118-01	26-Mar-24	
EPA 200.7	Zinc	mg/L	2.76	1.74	1.00	102	70 - 130	X412126 - X4C0237-02	26-Mar-24	
EPA 200.8	Antimony	mg/L	0.0258	<0.00100	0.0250	103	70 - 130	X412059 - X4C0180-01	25-Mar-24	
EPA 200.8	Antimony	mg/L	0.0257	<0.00100	0.0250	103	70 - 130	X412059 - X4C0180-02	25-Mar-24	
EPA 200.8	Arsenic	mg/L	0.0261	<0.00100	0.0250	102	70 - 130	X412059 - X4C0180-01	25-Mar-24	
EPA 200.8	Arsenic	mg/L	0.0262	<0.00100	0.0250	102	70 - 130	X412059 - X4C0180-02	25-Mar-24	
EPA 200.8	Selenium	mg/L	0.0262	<0.00100	0.0250	105	70 - 130	X412059 - X4C0180-01	25-Mar-24	
EPA 200.8	Selenium	mg/L	0.0249	<0.00100	0.0250	99.6	70 - 130	X412059 - X4C0180-02	25-Mar-24	
EPA 200.8	Thallium	mg/L	0.0238	<0.000200	0.0250	95.2	70 - 130	X412059 - X4C0180-01	25-Mar-24	
EPA 200.8	Thallium	mg/L	0.0243	<0.000200	0.0250	97.2	70 - 130	X412059 - X4C0180-02	25-Mar-24	
EPA 200.8	Uranium	mg/L	0.0277	0.00379	0.0250	95.5	70 - 130	X412059 - X4C0180-01	25-Mar-24	
EPA 200.8	Uranium	mg/L	0.0283	0.00349	0.0250	99.4	70 - 130	X412059 - X4C0180-02	25-Mar-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.0617	0.0452	0.00200	0.30R>S	70 - 130	X413001 - X4C0154-01	25-Mar-24	D2,M4
EPA 245.1	Mercury	mg/L	0.00199	<0.000200	0.00200	99.7	70 - 130	X413001 - X4C0241-01	25-Mar-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	<0.0050	0.100	97.0	79 - 121	X412010 - X4C0180-01	21-Mar-24	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	<0.0050	0.100	97.0	79 - 121	X412201 - X4C0180-02	21-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X411155 - X4C0180-01	14-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X411155 - X4C0180-02	14-Mar-24	
EPA 350.1	Ammonia as N	mg/L	0.998	<0.030	1.00	99.8	90 - 110	X412042 - X4C0180-01	20-Mar-24	
EPA 350.1	Ammonia as N	mg/L	0.986	<0.030	1.00	98.6	90 - 110	X412042 - X4C0180-02	20-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0950	<0.0050	0.100	94.0	82 - 118	X412008 - X4C0061-01	20-Mar-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	11.7	8.50	3.00	107	90 - 110	X411126 - X4C0118-01	13-Mar-24	
EPA 300.0	Chloride	mg/L	4.71	1.57	3.00	105	90 - 110	X411126 - X4C0197-06	13-Mar-24	
EPA 300.0	Fluoride	mg/L	2.32	0.371	2.00	97.2	90 - 110	X411126 - X4C0118-01	13-Mar-24	
EPA 300.0	Fluoride	mg/L	2.03	<0.100	2.00	100	90 - 110	X411126 - X4C0197-06	13-Mar-24	
EPA 300.0	Nitrate as N	mg/L	2.57	0.465	2.00	105	90 - 110	X411126 - X4C0118-01	13-Mar-24	
EPA 300.0	Nitrate as N	mg/L	2.18	0.159	2.00	101	90 - 110	X411126 - X4C0197-06	13-Mar-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.74	0.465	4.00	107	90 - 110	X411126 - X4C0118-01	13-Mar-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.21	0.159	4.00	101	90 - 110	X411126 - X4C0197-06	13-Mar-24	
EPA 300.0	Nitrite as N	mg/L	2.17	<0.050	2.00	108	90 - 110	X411126 - X4C0118-01	13-Mar-24	
EPA 300.0	Nitrite as N	mg/L	2.03	<0.050	2.00	101	90 - 110	X411126 - X4C0197-06	13-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	52.2	41.7	10.0	105	90 - 110	X411126 - X4C0118-01	13-Mar-24	D2

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0180**
Reported: 28-Mar-24 09:21

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO4	mg/L	13.9	3.85	10.0	101	90 - 110	X411126 - X4C0197-06	13-Mar-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	56.5	56.9	20.0	0.6	20	99	X412175 - X4C0180-01	
EPA 200.7	Magnesium	mg/L	36.7	37.3	20.0	1.6	20	102	X412175 - X4C0180-01	
EPA 200.7	Potassium	mg/L	21.7	22.0	20.0	1.2	20	104	X412175 - X4C0180-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	1.00	1.00	0.7	20	101	X412126 - X4C0118-01	
EPA 200.7	Barium	mg/L	1.05	1.01	1.00	3.6	20	103	X412126 - X4C0118-01	
EPA 200.7	Beryllium	mg/L	0.993	1.01	1.00	1.8	20	99.3	X412126 - X4C0118-01	
EPA 200.7	Boron	mg/L	1.08	1.06	1.00	1.7	20	106	X412126 - X4C0118-01	
EPA 200.7	Cadmium	mg/L	1.03	1.01	1.00	1.7	20	103	X412126 - X4C0118-01	
EPA 200.7	Calcium	mg/L	82.7	83.3	20.0	0.7	20	99.8	X412126 - X4C0118-01	
EPA 200.7	Chromium	mg/L	1.04	1.02	1.00	1.6	20	104	X412126 - X4C0118-01	
EPA 200.7	Cobalt	mg/L	1.00	0.983	1.00	1.8	20	100	X412126 - X4C0118-01	
EPA 200.7	Copper	mg/L	1.03	1.01	1.00	1.3	20	103	X412126 - X4C0118-01	
EPA 200.7	Iron	mg/L	10.3	10.2	10.0	0.9	20	103	X412126 - X4C0118-01	
EPA 200.7	Lead	mg/L	1.03	1.00	1.00	2.2	20	103	X412126 - X4C0118-01	
EPA 200.7	Lithium	mg/L	1.02	1.02	1.00	0.2	20	102	X412126 - X4C0118-01	
EPA 200.7	Magnesium	mg/L	27.0	26.0	20.0	3.9	20	106	X412126 - X4C0118-01	
EPA 200.7	Manganese	mg/L	1.05	1.04	1.00	1.1	20	105	X412126 - X4C0118-01	
EPA 200.7	Molybdenum	mg/L	1.05	1.03	1.00	1.8	20	104	X412126 - X4C0118-01	
EPA 200.7	Nickel	mg/L	1.01	0.989	1.00	1.7	20	99.3	X412126 - X4C0118-01	
EPA 200.7	Potassium	mg/L	21.0	20.8	20.0	0.9	20	100	X412126 - X4C0118-01	
EPA 200.7	Silver	mg/L	0.0488	0.0446	0.0500	8.8	20	97.5	X412126 - X4C0118-01	
EPA 200.7	Sodium	mg/L	30.6	30.4	19.0	0.5	20	100	X412126 - X4C0118-01	
EPA 200.7	Vanadium	mg/L	1.05	1.04	1.00	1.6	20	105	X412126 - X4C0118-01	
EPA 200.7	Zinc	mg/L	1.04	1.02	1.00	1.6	20	104	X412126 - X4C0118-01	
EPA 200.8	Antimony	mg/L	0.0245	0.0258	0.0250	5.2	20	97.8	X412059 - X4C0180-01	
EPA 200.8	Arsenic	mg/L	0.0257	0.0261	0.0250	1.4	20	100	X412059 - X4C0180-01	
EPA 200.8	Selenium	mg/L	0.0240	0.0262	0.0250	9.0	20	95.9	X412059 - X4C0180-01	
EPA 200.8	Thallium	mg/L	0.0237	0.0238	0.0250	0.2	20	95.0	X412059 - X4C0180-01	
EPA 200.8	Uranium	mg/L	0.0277	0.0277	0.0250	0.1	20	95.5	X412059 - X4C0180-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.0501	0.0617	0.00200	20.7	20	0.30R>S	X413001 - X4C0154-01	D2,M4,R2B
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0910	0.0970	0.100	6.4	11	91.0	X412010 - X4C0180-01	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.103	0.0970	0.100	6.0	11	103	X412201 - X4C0180-02	
EPA 335.4	Cyanide (total)	mg/L	0.0993	0.102	0.100	3.1	20	99.3	X411155 - X4C0180-01	
EPA 350.1	Ammonia as N	mg/L	1.01	0.998	1.00	1.5	20	101	X412042 - X4C0180-01	
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.0950	0.100	8.1	11	102	X412008 - X4C0061-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	11.6	11.7	3.00	0.8	20	104	X411126 - X4C0118-01	
EPA 300.0	Fluoride	mg/L	2.27	2.32	2.00	2.1	20	94.8	X411126 - X4C0118-01	
EPA 300.0	Nitrate as N	mg/L	2.50	2.57	2.00	2.5	20	102	X411126 - X4C0118-01	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0180**
Reported: 28-Mar-24 09:21

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	4.61	4.74	4.00	2.7	20	104	X411126 - X4C0118-01	
EPA 300.0	Nitrite as N	mg/L	2.11	2.17	2.00	3.0	20	105	X411126 - X4C0118-01	
EPA 300.0	Sulfate as SO4	mg/L	51.1	52.2	10.0	2.1	20	94.4	X411126 - X4C0118-01	D2

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4C0180**
Victor, CO 80860	Reported: 28-Mar-24 09:21

Notes and Definitions

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

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

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0342**
Reported: 04-Apr-24 15:15

Client Sample ID: **GVMW-26A**
SVL Sample ID: **X4C0342-01 (Ground Water)**

Sampled: 20-Mar-24 10:47
Received: 21-Mar-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	29.6	mg/L	0.100	0.069		X413128	NMS	03/29/24 12:21	
EPA 200.7	**Magnesium**	7.32	mg/L	0.500	0.090		X413128	NMS	03/29/24 12:21	
EPA 200.7	**Potassium**	0.93	mg/L	0.50	0.18		X413128	NMS	03/29/24 12:21	
SM 2340 B	**Hardness (as CaCO3)**	101	mg/L	2.31	0.543		N/A		03/29/24 12:21	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X413015	NMS	04/01/24 15:32	
EPA 200.7	**Barium**	0.192	mg/L	0.0020	0.0019		X413015	NMS	04/01/24 15:32	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X413015	NMS	04/01/24 15:32	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X413015	NMS	04/01/24 15:32	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X413015	NMS	04/01/24 15:32	
EPA 200.7	**Calcium**	28.7	mg/L	0.100	0.069		X413015	NMS	04/01/24 15:32	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X413015	NMS	04/01/24 15:32	
EPA 200.7	**Cobalt**	0.0068	mg/L	0.0060	0.0046		X413015	NMS	04/01/24 15:32	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X413015	NMS	04/01/24 15:32	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X413015	NMS	04/01/24 15:32	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X413015	NMS	04/01/24 15:32	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X413015	NMS	04/01/24 15:32	
EPA 200.7	**Magnesium**	7.01	mg/L	0.500	0.090		X413015	NMS	04/01/24 15:32	
EPA 200.7	**Manganese**	0.0150	mg/L	0.0080	0.0034		X413015	NMS	04/01/24 15:32	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X413015	NMS	04/01/24 15:32	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X413015	NMS	04/01/24 15:32	
EPA 200.7	**Potassium**	1.01	mg/L	0.50	0.18		X413015	NMS	04/01/24 15:32	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X413015	NMS	04/01/24 15:32	
EPA 200.7	**Sodium**	30.4	mg/L	0.50	0.12		X413015	NMS	04/01/24 15:32	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X413015	NMS	04/01/24 15:32	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X413015	NMS	04/01/24 15:32	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X413183	SMU	04/01/24 16:56	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X413183	SMU	04/01/24 16:56	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X413183	SMU	04/01/24 16:56	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X413183	SMU	04/01/24 16:56	
EPA 200.8	**Uranium**	0.00330	mg/L	0.000100	0.000052		X413183	SMU	04/01/24 16:56	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X414007	MAC	04/02/24 13:11	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @21.0°C	< 0.0050	mg/L	0.0050	0.0048		X414018	DD	04/03/24 11:21	M1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X413155	DD	04/03/24 11:56	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X413099	DD	03/28/24 08:48	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X414022	DD	04/03/24 13:59	
SM 2310 B	**Acidity to pH 8.3**	-159	mg/L as CaCO3	10.0			X414013	MWD	04/02/24 08:48	
SM 2320 B	**Total Alkalinity**	157	mg/L as CaCO3	1.0			X413073	MWD	03/27/24 12:06	
SM 2320 B	**Bicarbonate**	157	mg/L as CaCO3	1.0			X413073	MWD	03/27/24 12:06	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X413073	MWD	03/27/24 12:06	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X413073	MWD	03/27/24 12:06	
SM 2540 C	**Total Diss. Solids**	208	mg/L	10			X412221	TJL	03/25/24 14:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X412222	TJL	03/25/24 15:50	
SM 4500 H B	**pH @16.9°C**	7.4	pH Units				X413073	MWD	03/27/24 12:06	H5

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0342**
Reported: 04-Apr-24 15:15

Client Sample ID: **GVMW-26A**
SVL Sample ID: **X4C0342-01 (Ground Water)**

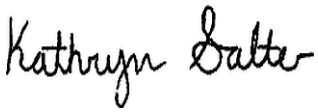
Sampled: 20-Mar-24 10:47
Received: 21-Mar-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.25	mg/L	0.20	0.02		X412206	RS	03/21/24 14:16	
EPA 300.0	**Fluoride**	1.87	mg/L	0.100	0.017		X412206	RS	03/21/24 14:16	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X412206	RS	03/21/24 14:16	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X412206	RS	03/21/24 14:16	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X412206	RS	03/21/24 14:16	
EPA 300.0	**Sulfate as SO4**	12.5	mg/L	0.30	0.18		X412206	RS	03/21/24 14:16	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.37 meq/L Anion Sum: 3.53 meq/L C/A Balance: -2.36 % Calculated TDS: 178 TDS/cTDS: 1.17

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



Kathryn Salter
Project Manager

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0342**
Reported: 04-Apr-24 15:15

Client Sample ID: **GVMW-26B**
SVL Sample ID: **X4C0342-02 (Ground Water)**

Sampled: 20-Mar-24 11:29
Received: 21-Mar-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	11.0	mg/L	0.100	0.069		X413128	NMS	03/29/24 12:25	
EPA 200.7	**Magnesium**	2.55	mg/L	0.500	0.090		X413128	NMS	03/29/24 12:25	
EPA 200.7	**Potassium**	0.70	mg/L	0.50	0.18		X413128	NMS	03/29/24 12:25	
SM 2340 B	**Hardness (as CaCO3)**	37.6	mg/L	2.31	0.543		N/A		04/01/24 15:36	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X413015	NMS	04/01/24 15:36	
EPA 200.7	**Barium**	0.112	mg/L	0.0020	0.0019		X413015	NMS	04/01/24 15:36	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X413015	NMS	04/01/24 15:36	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X413015	NMS	04/01/24 15:36	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X413015	NMS	04/01/24 15:36	
EPA 200.7	**Calcium**	10.9	mg/L	0.100	0.069		X413015	NMS	04/01/24 15:36	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X413015	NMS	04/01/24 15:36	
EPA 200.7	**Cobalt**	0.0068	mg/L	0.0060	0.0046		X413015	NMS	04/01/24 15:36	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X413015	NMS	04/01/24 15:36	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X413015	NMS	04/01/24 15:36	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X413015	NMS	04/01/24 15:36	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X413015	NMS	04/01/24 15:36	
EPA 200.7	**Magnesium**	2.45	mg/L	0.500	0.090		X413015	NMS	04/01/24 15:36	
EPA 200.7	**Manganese**	0.0117	mg/L	0.0080	0.0034		X413015	NMS	04/01/24 15:36	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X413015	NMS	04/01/24 15:36	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X413015	NMS	04/01/24 15:36	
EPA 200.7	**Potassium**	0.86	mg/L	0.50	0.18		X413015	NMS	04/01/24 15:36	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X413015	NMS	04/01/24 15:36	
EPA 200.7	**Sodium**	9.75	mg/L	0.50	0.12		X413015	NMS	04/01/24 15:36	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X413015	NMS	04/01/24 15:36	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X413015	NMS	04/01/24 15:36	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X413183	SMU	04/01/24 16:58	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X413183	SMU	04/01/24 16:58	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X413183	SMU	04/01/24 16:58	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X413183	SMU	04/01/24 16:58	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X413183	SMU	04/01/24 16:58	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X414007	MAC	04/02/24 13:13	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @21.0°C	< 0.0050	mg/L	0.0050	0.0048		X414018	DD	04/03/24 11:23	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X413155	DD	04/03/24 11:58	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X413099	DD	03/28/24 08:50	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X414022	DD	04/03/24 14:01	
SM 2310 B	**Acidity to pH 8.3**	-32.3	mg/L as CaCO3	10.0			X414013	MWD	04/02/24 08:48	
SM 2320 B	**Total Alkalinity**	36.2	mg/L as CaCO3	1.0			X413073	MWD	03/27/24 12:14	
SM 2320 B	**Bicarbonate**	36.2	mg/L as CaCO3	1.0			X413073	MWD	03/27/24 12:14	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X413073	MWD	03/27/24 12:14	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X413073	MWD	03/27/24 12:14	
SM 2540 C	**Total Diss. Solids**	79	mg/L	10			X412221	TJL	03/25/24 14:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X412222	TJL	03/25/24 15:50	
SM 4500 H B	**pH @17.1°C**	6.5	pH Units				X413073	MWD	03/27/24 12:14	H5,R2B

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0342**
Reported: 04-Apr-24 15:15

Client Sample ID: **GVMW-26B**
SVL Sample ID: **X4C0342-02 (Ground Water)**

Sampled: 20-Mar-24 11:29
Received: 21-Mar-24
Sampled By: PB

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		X412206	RS	03/21/24 15:10	
EPA 300.0	**Fluoride**	0.229	mg/L	0.100	0.017		X412206	RS	03/21/24 15:10	
EPA 300.0	**Nitrate as N**	0.627	mg/L	0.050	0.013		X412206	RS	03/21/24 15:10	
EPA 300.0	**Nitrate+Nitrite as N**	0.627	mg/L	0.100	0.044		X412206	RS	03/21/24 15:10	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X412206	RS	03/21/24 15:10	
EPA 300.0	**Sulfate as SO4**	21.9	mg/L	0.30	0.18		X412206	RS	03/21/24 15:10	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 1.20 meq/L Anion Sum: 1.29 meq/L C/A Balance: -3.47 % Calculated TDS: 72 TDS/cTDS: 1.09

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

Kathryn Salter
Project Manager

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0342**
Reported: 04-Apr-24 15:15

Client Sample ID: **GVMW-22B**
SVL Sample ID: **X4C0342-03 (Ground Water)**

Sampled: 20-Mar-24 12:43
Received: 21-Mar-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	34.0	mg/L	0.100	0.069		X413128	NMS	03/29/24 12:28	
EPA 200.7	**Magnesium**	10.6	mg/L	0.500	0.090		X413128	NMS	03/29/24 12:28	
EPA 200.7	**Potassium**	1.55	mg/L	0.50	0.18		X413128	NMS	03/29/24 12:28	
SM 2340 B	**Hardness (as CaCO3)**	128	mg/L	2.31	0.543		N/A		03/29/24 12:28	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X413015	NMS	04/01/24 15:40	
EPA 200.7	**Barium**	0.0514	mg/L	0.0020	0.0019		X413015	NMS	04/01/24 15:40	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X413015	NMS	04/01/24 15:40	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X413015	NMS	04/01/24 15:40	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X413015	NMS	04/01/24 15:40	
EPA 200.7	**Calcium**	34.4	mg/L	0.100	0.069		X413015	NMS	04/01/24 15:40	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X413015	NMS	04/01/24 15:40	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X413015	NMS	04/01/24 15:40	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X413015	NMS	04/01/24 15:40	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X413015	NMS	04/01/24 15:40	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X413015	NMS	04/01/24 15:40	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X413015	NMS	04/01/24 15:40	
EPA 200.7	**Magnesium**	10.5	mg/L	0.500	0.090		X413015	NMS	04/01/24 15:40	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X413015	NMS	04/01/24 15:40	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X413015	NMS	04/01/24 15:40	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X413015	NMS	04/01/24 15:40	
EPA 200.7	**Potassium**	1.64	mg/L	0.50	0.18		X413015	NMS	04/01/24 15:40	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X413015	NMS	04/01/24 15:40	
EPA 200.7	**Sodium**	21.8	mg/L	0.50	0.12		X413015	NMS	04/01/24 15:40	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X413015	NMS	04/01/24 15:40	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X413015	NMS	04/01/24 15:40	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X413183	SMU	04/01/24 17:01	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X413183	SMU	04/01/24 17:01	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X413183	SMU	04/01/24 17:01	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X413183	SMU	04/01/24 17:01	
EPA 200.8	**Uranium**	0.000948	mg/L	0.000100	0.000052		X413183	SMU	04/01/24 17:01	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X414007	MAC	04/02/24 13:15	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @21.0°C	< 0.0050	mg/L	0.0050	0.0048		X414018	DD	04/03/24 11:31	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X413155	DD	04/03/24 12:01	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X413099	DD	03/28/24 08:52	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X414022	DD	04/03/24 14:02	
SM 2310 B	**Acidity to pH 8.3**	-79.7	mg/L as CaCO3	10.0			X414013	MWD	04/02/24 08:48	
SM 2320 B	**Total Alkalinity**	77.6	mg/L as CaCO3	1.0			X413073	MWD	03/27/24 12:19	
SM 2320 B	**Bicarbonate**	77.6	mg/L as CaCO3	1.0			X413073	MWD	03/27/24 12:19	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X413073	MWD	03/27/24 12:19	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X413073	MWD	03/27/24 12:19	
SM 2540 C	**Total Diss. Solids**	237	mg/L	10			X412248	TJL	03/26/24 14:55	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X412222	TJL	03/25/24 15:50	
SM 4500 H B	**pH @17.2°C**	6.7	pH Units				X413073	MWD	03/27/24 12:19	H5

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

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

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0342**
Reported: 04-Apr-24 15:15

Client Sample ID: **GVMW-22B**
SVL Sample ID: **X4C0342-03 (Ground Water)**

Sampled: 20-Mar-24 12:43
Received: 21-Mar-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	7.91	mg/L	0.20	0.02		X412206	RS	03/21/24 16:22	
EPA 300.0	**Fluoride**	0.383	mg/L	0.100	0.017		X412206	RS	03/21/24 16:22	
EPA 300.0	**Nitrate as N**	0.500	mg/L	0.050	0.013		X412206	RS	03/21/24 16:22	
EPA 300.0	**Nitrate+Nitrite as N**	0.500	mg/L	0.100	0.044		X412206	RS	03/21/24 16:22	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X412206	RS	03/21/24 16:22	
EPA 300.0	**Sulfate as SO4**	93.0	mg/L	3.00	1.80	10	X412206	RS	03/21/24 16:40	D2
Cation/Anion Balance and TDS Ratios										

Cation Sum: 3.56 meq/L Anion Sum: 3.77 meq/L C/A Balance: -2.78 % Calculated TDS: 218 TDS/cTDS: 1.09

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

Kathryn Salter
Project Manager

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0342**
Reported: 04-Apr-24 15:15

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	X413128	29-Mar-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X413128	29-Mar-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X413128	29-Mar-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X413015	01-Apr-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X413015	01-Apr-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X413015	01-Apr-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X413015	01-Apr-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X413015	01-Apr-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X413015	01-Apr-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X413015	01-Apr-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X413015	01-Apr-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X413015	01-Apr-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X413015	01-Apr-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X413015	01-Apr-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X413015	01-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X413015	01-Apr-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X413015	01-Apr-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X413015	01-Apr-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X413015	01-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X413015	01-Apr-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X413015	01-Apr-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X413015	01-Apr-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X413015	01-Apr-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X413015	01-Apr-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X413183	01-Apr-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X413183	01-Apr-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X413183	01-Apr-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X413183	01-Apr-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X413183	02-Apr-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X414007	02-Apr-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X414018	03-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X413155	03-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X414065	03-Apr-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X413099	28-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X414022	03-Apr-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X414013	02-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X413073	27-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X413073	27-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X413073	27-Mar-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X413073	27-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X412221	25-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X412248	26-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X412222	25-Mar-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X412206	21-Mar-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X412206	21-Mar-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X412206	21-Mar-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X412206	21-Mar-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X412206	21-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X412206	21-Mar-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0342**
Reported: 04-Apr-24 15:15

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	X413128	29-Mar-24	
EPA 200.7	Magnesium	mg/L	20.9	20.0	105	85 - 115	X413128	29-Mar-24	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.7	85 - 115	X413128	29-Mar-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.937	1.00	93.7	85 - 115	X413015	01-Apr-24	
EPA 200.7	Barium	mg/L	0.946	1.00	94.6	85 - 115	X413015	01-Apr-24	
EPA 200.7	Beryllium	mg/L	0.982	1.00	98.2	85 - 115	X413015	01-Apr-24	
EPA 200.7	Boron	mg/L	0.951	1.00	95.1	85 - 115	X413015	01-Apr-24	
EPA 200.7	Cadmium	mg/L	0.949	1.00	94.9	85 - 115	X413015	01-Apr-24	
EPA 200.7	Calcium	mg/L	19.2	20.0	96.2	85 - 115	X413015	01-Apr-24	
EPA 200.7	Chromium	mg/L	0.948	1.00	94.8	85 - 115	X413015	01-Apr-24	
EPA 200.7	Cobalt	mg/L	0.934	1.00	93.4	85 - 115	X413015	01-Apr-24	
EPA 200.7	Copper	mg/L	0.954	1.00	95.4	85 - 115	X413015	01-Apr-24	
EPA 200.7	Iron	mg/L	9.77	10.0	97.7	85 - 115	X413015	01-Apr-24	
EPA 200.7	Lead	mg/L	0.947	1.00	94.7	85 - 115	X413015	01-Apr-24	
EPA 200.7	Lithium	mg/L	0.927	1.00	92.7	85 - 115	X413015	01-Apr-24	
EPA 200.7	Magnesium	mg/L	19.3	20.0	96.5	85 - 115	X413015	01-Apr-24	
EPA 200.7	Manganese	mg/L	0.961	1.00	96.1	85 - 115	X413015	01-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.962	1.00	96.2	85 - 115	X413015	01-Apr-24	
EPA 200.7	Nickel	mg/L	0.935	1.00	93.5	85 - 115	X413015	01-Apr-24	
EPA 200.7	Potassium	mg/L	19.6	20.0	97.9	85 - 115	X413015	01-Apr-24	
EPA 200.7	Silver	mg/L	0.0492	0.0500	98.5	85 - 115	X413015	01-Apr-24	
EPA 200.7	Sodium	mg/L	18.2	19.0	95.5	85 - 115	X413015	01-Apr-24	
EPA 200.7	Vanadium	mg/L	0.968	1.00	96.8	85 - 115	X413015	01-Apr-24	
EPA 200.7	Zinc	mg/L	0.945	1.00	94.5	85 - 115	X413015	01-Apr-24	
EPA 200.8	Antimony	mg/L	0.0263	0.0250	105	85 - 115	X413183	01-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0270	0.0250	108	85 - 115	X413183	01-Apr-24	
EPA 200.8	Selenium	mg/L	0.0254	0.0250	102	85 - 115	X413183	01-Apr-24	
EPA 200.8	Thallium	mg/L	0.0270	0.0250	108	85 - 115	X413183	01-Apr-24	
EPA 200.8	Uranium	mg/L	0.0263	0.0250	105	85 - 115	X413183	01-Apr-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00205	0.00200	103	85 - 115	X414007	02-Apr-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.109	0.100	109	90 - 110	X414018	03-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.0999	0.100	99.9	90 - 110	X413155	03-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X414065	03-Apr-24	
EPA 350.1	Ammonia as N	mg/L	0.989	1.00	98.9	90 - 110	X413099	28-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0990	0.100	99.0	90 - 110	X414022	03-Apr-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1660	1640	101	95.4 - 104	X414013	02-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	96.4 - 105	X413073	27-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	403	397	101	96.4 - 105	X413073	27-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X412222	25-Mar-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.05	3.00	102	90 - 110	X412206	21-Mar-24	
EPA 300.0	Fluoride	mg/L	2.04	2.00	102	90 - 110	X412206	21-Mar-24	
EPA 300.0	Nitrate as N	mg/L	2.06	2.00	103	90 - 110	X412206	21-Mar-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.70	4.50	104	90 - 110	X412206	21-Mar-24	
EPA 300.0	Nitrite as N	mg/L	2.64	2.50	106	90 - 110	X412206	21-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X412206	21-Mar-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0342**
Reported: 04-Apr-24 15:15

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	79.0	79.0	0.0	20	X414013 - X4C0311-01	02-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	36.4	36.2	0.6	20	X413073 - X4C0342-02	27-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	36.4	36.2	0.6	20	X413073 - X4C0342-02	27-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X413073 - X4C0342-02	27-Mar-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X413073 - X4C0342-02	27-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	227	236	3.9	10	X412221 - X4C0340-01	25-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	306	306	0.0	10	X412221 - X4C0340-05	25-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	563	605	7.2	10	X412248 - X4C0351-01	26-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	590	651	9.8	10	X412248 - X4C0344-02	26-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X412222 - X4C0340-01	25-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X412222 - X4C0340-05	25-Mar-24	
SM 4500 H B	pH @17.0°C	pH Units	6.3	6.5	3.0	20	X413073 - X4C0342-02	27-Mar-24	R2B

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	29.6	10.5	20.0	96	70 - 130	X413128 - X4C0330-01	29-Mar-24	
EPA 200.7	Calcium	mg/L	54.1	34.0	20.0	101	70 - 130	X413128 - X4C0342-03	29-Mar-24	
EPA 200.7	Magnesium	mg/L	21.0	1.10	20.0	99.4	70 - 130	X413128 - X4C0330-01	29-Mar-24	
EPA 200.7	Magnesium	mg/L	31.5	10.6	20.0	105	70 - 130	X413128 - X4C0342-03	29-Mar-24	
EPA 200.7	Potassium	mg/L	19.8	<0.50	20.0	98.9	70 - 130	X413128 - X4C0330-01	29-Mar-24	
EPA 200.7	Potassium	mg/L	21.4	1.55	20.0	99.0	70 - 130	X413128 - X4C0342-03	29-Mar-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.983	<0.080	1.00	98.3	70 - 130	X413015 - X4C0342-02	01-Apr-24	
EPA 200.7	Aluminum	mg/L	0.966	<0.080	1.00	96.6	70 - 130	X413015 - X4C0342-04	01-Apr-24	
EPA 200.7	Barium	mg/L	1.10	0.112	1.00	98.9	70 - 130	X413015 - X4C0342-02	01-Apr-24	
EPA 200.7	Barium	mg/L	1.03	0.0590	1.00	96.9	70 - 130	X413015 - X4C0342-04	01-Apr-24	
EPA 200.7	Beryllium	mg/L	0.999	<0.00200	1.00	99.9	70 - 130	X413015 - X4C0342-02	01-Apr-24	
EPA 200.7	Beryllium	mg/L	0.985	<0.00200	1.00	98.5	70 - 130	X413015 - X4C0342-04	01-Apr-24	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	101	70 - 130	X413015 - X4C0342-02	01-Apr-24	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	99.8	70 - 130	X413015 - X4C0342-04	01-Apr-24	
EPA 200.7	Cadmium	mg/L	0.996	<0.0020	1.00	99.6	70 - 130	X413015 - X4C0342-02	01-Apr-24	
EPA 200.7	Cadmium	mg/L	0.982	<0.0020	1.00	98.2	70 - 130	X413015 - X4C0342-04	01-Apr-24	
EPA 200.7	Calcium	mg/L	30.6	10.9	20.0	98.5	70 - 130	X413015 - X4C0342-02	01-Apr-24	
EPA 200.7	Calcium	mg/L	37.9	18.5	20.0	97.3	70 - 130	X413015 - X4C0342-04	01-Apr-24	
EPA 200.7	Chromium	mg/L	0.995	<0.0060	1.00	99.5	70 - 130	X413015 - X4C0342-02	01-Apr-24	
EPA 200.7	Chromium	mg/L	0.973	<0.0060	1.00	97.3	70 - 130	X413015 - X4C0342-04	01-Apr-24	
EPA 200.7	Cobalt	mg/L	0.982	0.0068	1.00	97.5	70 - 130	X413015 - X4C0342-02	01-Apr-24	
EPA 200.7	Cobalt	mg/L	0.982	0.0254	1.00	95.6	70 - 130	X413015 - X4C0342-04	01-Apr-24	
EPA 200.7	Copper	mg/L	0.985	<0.0100	1.00	98.5	70 - 130	X413015 - X4C0342-02	01-Apr-24	
EPA 200.7	Copper	mg/L	0.973	<0.0100	1.00	97.3	70 - 130	X413015 - X4C0342-04	01-Apr-24	
EPA 200.7	Iron	mg/L	9.99	<0.100	10.0	99.9	70 - 130	X413015 - X4C0342-02	01-Apr-24	
EPA 200.7	Iron	mg/L	43.7	34.2	10.0	94.9	70 - 130	X413015 - X4C0342-04	01-Apr-24	
EPA 200.7	Lead	mg/L	0.997	<0.0075	1.00	99.7	70 - 130	X413015 - X4C0342-02	01-Apr-24	
EPA 200.7	Lead	mg/L	0.983	<0.0075	1.00	98.3	70 - 130	X413015 - X4C0342-04	01-Apr-24	
EPA 200.7	Lithium	mg/L	0.978	<0.040	1.00	97.8	70 - 130	X413015 - X4C0342-02	01-Apr-24	
EPA 200.7	Lithium	mg/L	0.980	<0.040	1.00	98.0	70 - 130	X413015 - X4C0342-04	01-Apr-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0342**
Reported: 04-Apr-24 15:15

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	Magnesium	mg/L	22.9	2.45	20.0	102	70 - 130	X413015 - X4C0342-02	01-Apr-24	
EPA 200.7	Magnesium	mg/L	37.8	18.1	20.0	98.5	70 - 130	X413015 - X4C0342-04	01-Apr-24	
EPA 200.7	Manganese	mg/L	1.01	0.0117	1.00	100	70 - 130	X413015 - X4C0342-02	01-Apr-24	
EPA 200.7	Manganese	mg/L	2.78	1.85	1.00	92.5	70 - 130	X413015 - X4C0342-04	01-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.998	<0.0080	1.00	99.8	70 - 130	X413015 - X4C0342-02	01-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.991	<0.0080	1.00	99.1	70 - 130	X413015 - X4C0342-04	01-Apr-24	
EPA 200.7	Nickel	mg/L	0.984	<0.0100	1.00	97.6	70 - 130	X413015 - X4C0342-02	01-Apr-24	
EPA 200.7	Nickel	mg/L	1.02	0.0642	1.00	95.3	70 - 130	X413015 - X4C0342-04	01-Apr-24	
EPA 200.7	Potassium	mg/L	20.8	0.86	20.0	99.9	70 - 130	X413015 - X4C0342-02	01-Apr-24	
EPA 200.7	Potassium	mg/L	21.5	1.74	20.0	99.1	70 - 130	X413015 - X4C0342-04	01-Apr-24	
EPA 200.7	Silver	mg/L	0.0503	<0.0050	0.0500	101	70 - 130	X413015 - X4C0342-02	01-Apr-24	
EPA 200.7	Silver	mg/L	0.0504	<0.0050	0.0500	101	70 - 130	X413015 - X4C0342-04	01-Apr-24	
EPA 200.7	Sodium	mg/L	28.3	9.75	19.0	97.5	70 - 130	X413015 - X4C0342-02	01-Apr-24	
EPA 200.7	Sodium	mg/L	29.8	11.4	19.0	97.1	70 - 130	X413015 - X4C0342-04	01-Apr-24	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X413015 - X4C0342-02	01-Apr-24	
EPA 200.7	Vanadium	mg/L	0.999	<0.0050	1.00	99.9	70 - 130	X413015 - X4C0342-04	01-Apr-24	
EPA 200.7	Zinc	mg/L	1.01	<0.0100	1.00	101	70 - 130	X413015 - X4C0342-02	01-Apr-24	
EPA 200.7	Zinc	mg/L	1.06	0.0748	1.00	98.5	70 - 130	X413015 - X4C0342-04	01-Apr-24	
EPA 200.8	Antimony	mg/L	0.0277	<0.00100	0.0250	111	70 - 130	X413183 - X4C0287-01	01-Apr-24	
EPA 200.8	Antimony	mg/L	0.0294	<0.0100	0.0250	118	70 - 130	X413183 - X4C0429-01	02-Apr-24	D1
EPA 200.8	Arsenic	mg/L	0.0279	<0.00100	0.0250	112	70 - 130	X413183 - X4C0287-01	01-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0273	<0.0100	0.0250	109	70 - 130	X413183 - X4C0429-01	02-Apr-24	D1
EPA 200.8	Selenium	mg/L	0.0282	0.00178	0.0250	106	70 - 130	X413183 - X4C0287-01	01-Apr-24	
EPA 200.8	Selenium	mg/L	0.0336	<0.0100	0.0250	115	70 - 130	X413183 - X4C0429-01	02-Apr-24	D1
EPA 200.8	Thallium	mg/L	0.0283	<0.000200	0.0250	113	70 - 130	X413183 - X4C0287-01	01-Apr-24	
EPA 200.8	Thallium	mg/L	0.0296	<0.00200	0.0250	118	70 - 130	X413183 - X4C0429-01	02-Apr-24	D1
EPA 200.8	Uranium	mg/L	0.0332	0.00502	0.0250	113	70 - 130	X413183 - X4C0287-01	01-Apr-24	
EPA 200.8	Uranium	mg/L	0.0645	0.0378	0.0250	107	70 - 130	X413183 - X4C0429-01	02-Apr-24	D1
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00207	<0.000200	0.00200	104	70 - 130	X414007 - X4C0342-01	02-Apr-24	
EPA 245.1	Mercury	mg/L	0.00206	<0.000200	0.00200	103	70 - 130	X414007 - X4C0398-02	02-Apr-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.117	<0.0050	0.100	117	79 - 121	X414018 - X4C0342-01	03-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.304	0.171	0.100	133	90 - 110	X413155 - X4A0382-11	03-Apr-24	D2,H1
EPA 335.4	Cyanide (total)	mg/L	0.119	0.0134	0.100	106	90 - 110	X414065 - X4C0462-05	03-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.117	0.0109	0.100	106	90 - 110	X414065 - X4C0462-03	03-Apr-24	
EPA 350.1	Ammonia as N	mg/L	0.974	<0.030	1.00	97.4	90 - 110	X413099 - X4C0341-01	28-Mar-24	
EPA 350.1	Ammonia as N	mg/L	0.987	<0.030	1.00	98.7	90 - 110	X413099 - X4C0342-01	28-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	0.101	<0.0050	0.100	99.0	82 - 118	X414022 - X4C0342-01	03-Apr-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.42	1.25	3.00	106	90 - 110	X412206 - X4C0342-01	21-Mar-24	
EPA 300.0	Chloride	mg/L	5.04	1.87	3.00	105	90 - 110	X412206 - X4C0342-02	21-Mar-24	
EPA 300.0	Fluoride	mg/L	4.01	1.87	2.00	107	90 - 110	X412206 - X4C0342-01	21-Mar-24	
EPA 300.0	Fluoride	mg/L	2.30	0.229	2.00	103	90 - 110	X412206 - X4C0342-02	21-Mar-24	
EPA 300.0	Nitrate as N	mg/L	2.11	<0.050	2.00	104	90 - 110	X412206 - X4C0342-01	21-Mar-24	
EPA 300.0	Nitrate as N	mg/L	2.71	0.627	2.00	104	90 - 110	X412206 - X4C0342-02	21-Mar-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.23	<0.100	4.00	106	90 - 110	X412206 - X4C0342-01	21-Mar-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.88	0.627	4.00	106	90 - 110	X412206 - X4C0342-02	21-Mar-24	

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0342**
Reported: 04-Apr-24 15:15

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
Anions by Ion Chromatography (Continued)										
EPA 300.0	Nitrite as N	mg/L	2.13	<0.050	2.00	106	90 - 110	X412206 - X4C0342-01	21-Mar-24	
EPA 300.0	Nitrite as N	mg/L	2.17	<0.050	2.00	108	90 - 110	X412206 - X4C0342-02	21-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	23.3	12.5	10.0	108	90 - 110	X412206 - X4C0342-01	21-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	32.3	21.9	10.0	105	90 - 110	X412206 - X4C0342-02	21-Mar-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	30.0	29.6	20.0	1.0	20	98	X413128 - X4C0330-01	
EPA 200.7	Magnesium	mg/L	22.4	21.0	20.0	6.5	20	106	X413128 - X4C0330-01	
EPA 200.7	Potassium	mg/L	20.1	19.8	20.0	1.4	20	100	X413128 - X4C0330-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.968	0.983	1.00	1.5	20	96.8	X413015 - X4C0342-02	
EPA 200.7	Barium	mg/L	1.09	1.10	1.00	1.4	20	97.3	X413015 - X4C0342-02	
EPA 200.7	Beryllium	mg/L	0.992	0.999	1.00	0.7	20	99.2	X413015 - X4C0342-02	
EPA 200.7	Boron	mg/L	0.998	1.02	1.00	2.3	20	98.9	X413015 - X4C0342-02	
EPA 200.7	Cadmium	mg/L	0.975	0.996	1.00	2.1	20	97.5	X413015 - X4C0342-02	
EPA 200.7	Calcium	mg/L	30.2	30.6	20.0	1.2	20	96.7	X413015 - X4C0342-02	
EPA 200.7	Chromium	mg/L	0.983	0.995	1.00	1.2	20	98.3	X413015 - X4C0342-02	
EPA 200.7	Cobalt	mg/L	0.960	0.982	1.00	2.3	20	95.3	X413015 - X4C0342-02	
EPA 200.7	Copper	mg/L	0.970	0.985	1.00	1.5	20	97.0	X413015 - X4C0342-02	
EPA 200.7	Iron	mg/L	9.85	9.99	10.0	1.5	20	98.5	X413015 - X4C0342-02	
EPA 200.7	Lead	mg/L	0.971	0.997	1.00	2.6	20	97.1	X413015 - X4C0342-02	
EPA 200.7	Lithium	mg/L	0.961	0.978	1.00	1.8	20	96.1	X413015 - X4C0342-02	
EPA 200.7	Magnesium	mg/L	22.4	22.9	20.0	2.1	20	99.8	X413015 - X4C0342-02	
EPA 200.7	Manganese	mg/L	1.01	1.01	1.00	0.8	20	99.5	X413015 - X4C0342-02	
EPA 200.7	Molybdenum	mg/L	0.977	0.998	1.00	2.1	20	97.7	X413015 - X4C0342-02	
EPA 200.7	Nickel	mg/L	0.961	0.984	1.00	2.4	20	95.3	X413015 - X4C0342-02	
EPA 200.7	Potassium	mg/L	20.4	20.8	20.0	1.9	20	97.9	X413015 - X4C0342-02	
EPA 200.7	Silver	mg/L	0.0503	0.0503	0.0500	0.1	20	101	X413015 - X4C0342-02	
EPA 200.7	Sodium	mg/L	28.0	28.3	19.0	1.0	20	96.0	X413015 - X4C0342-02	
EPA 200.7	Vanadium	mg/L	0.998	1.01	1.00	1.6	20	99.8	X413015 - X4C0342-02	
EPA 200.7	Zinc	mg/L	0.983	1.01	1.00	2.5	20	98.3	X413015 - X4C0342-02	
EPA 200.8	Antimony	mg/L	0.0268	0.0277	0.0250	3.3	20	107	X413183 - X4C0287-01	
EPA 200.8	Arsenic	mg/L	0.0274	0.0279	0.0250	1.9	20	110	X413183 - X4C0287-01	
EPA 200.8	Selenium	mg/L	0.0287	0.0282	0.0250	1.7	20	108	X413183 - X4C0287-01	
EPA 200.8	Thallium	mg/L	0.0276	0.0283	0.0250	2.3	20	111	X413183 - X4C0287-01	
EPA 200.8	Uranium	mg/L	0.0323	0.0332	0.0250	2.6	20	109	X413183 - X4C0287-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00211	0.00207	0.00200	1.6	20	105	X414007 - X4C0342-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.127	0.117	0.100	8.2	11	127	X414018 - X4C0342-01	M1
EPA 335.4	Cyanide (total)	mg/L	0.307	0.304	0.100	1.2	20	136	X413155 - X4A0382-11	D2,H1
EPA 335.4	Cyanide (total)	mg/L	0.122	0.119	0.100	2.3	20	109	X414065 - X4C0462-05	
EPA 350.1	Ammonia as N	mg/L	1.02	0.974	1.00	4.3	20	102	X413099 - X4C0341-01	
OIA 1677	Cyanide (WAD)	mg/L	0.0960	0.101	0.100	5.1	11	94.0	X414022 - X4C0342-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.47	4.42	3.00	1.1	20	107	X412206 - X4C0342-01	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0342**
Reported: 04-Apr-24 15:15

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
Anions by Ion Chromatography (Continued)										
EPA 300.0	Fluoride	mg/L	4.04	4.01	2.00	0.8	20	108	X412206 - X4C0342-01	
EPA 300.0	Nitrate as N	mg/L	2.13	2.11	2.00	1.1	20	105	X412206 - X4C0342-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.31	4.23	4.00	1.7	20	108	X412206 - X4C0342-01	
EPA 300.0	Nitrite as N	mg/L	2.18	2.13	2.00	2.3	20	109	X412206 - X4C0342-01	
EPA 300.0	Sulfate as SO4	mg/L	23.5	23.3	10.0	0.8	20	110	X412206 - X4C0342-01	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4C0342**
Victor, CO 80860	Reported: 04-Apr-24 15:15

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.
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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Post Office Box 191
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0429**
Reported: 11-Apr-24 14:39

Client Sample ID: **GVMW-8A**
SVL Sample ID: **X4C0429-04 (Ground Water)**

Sampled: 26-Mar-24 14:20
Received: 27-Mar-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	48.5	mg/L	0.100	0.069		X414144	JRR	04/05/24 11:55	
EPA 200.7	**Magnesium**	6.22	mg/L	0.500	0.090		X414144	JRR	04/05/24 11:55	
EPA 200.7	**Potassium**	0.69	mg/L	0.50	0.18		X414144	JRR	04/05/24 11:55	
SM 2340 B	**Hardness (as CaCO3)**	147	mg/L	2.31	0.543		N/A		04/05/24 10:44	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X414049	NMS	04/04/24 16:03	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X414049	NMS	04/05/24 10:44	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X414049	NMS	04/04/24 16:03	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X414049	NMS	04/04/24 16:03	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X414049	NMS	04/04/24 16:03	
EPA 200.7	**Calcium**	49.9	mg/L	0.100	0.069		X414049	NMS	04/04/24 16:03	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X414049	NMS	04/04/24 16:03	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X414049	NMS	04/04/24 16:03	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X414049	NMS	04/04/24 16:03	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X414049	NMS	04/04/24 16:03	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X414049	NMS	04/04/24 16:03	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X414049	NMS	04/04/24 16:03	
EPA 200.7	**Magnesium**	6.10	mg/L	0.500	0.090		X414049	NMS	04/05/24 10:44	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X414049	NMS	04/04/24 16:03	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X414049	NMS	04/04/24 16:03	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X414049	NMS	04/04/24 16:03	
EPA 200.7	**Potassium**	0.86	mg/L	0.50	0.18		X414049	NMS	04/04/24 16:03	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X414049	NMS	04/05/24 10:44	
EPA 200.7	**Sodium**	24.8	mg/L	0.50	0.12		X414049	NMS	04/04/24 16:03	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X414049	NMS	04/04/24 16:03	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X414049	NMS	04/04/24 16:03	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X413183	SMU	04/02/24 10:00	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X413183	SMU	04/02/24 10:00	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X413183	SMU	04/02/24 10:00	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X413183	SMU	04/02/24 10:00	
EPA 200.8	**Uranium**	0.00490	mg/L	0.000100	0.000052		X413183	SMU	04/02/24 10:00	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X414128	MAC	04/08/24 14:19	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @21.0°C	< 0.0050	mg/L	0.0050	0.0048		X414018	DD	04/03/24 12:03	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X414065	DD	04/03/24 12:54	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X414166	DD	04/05/24 10:36	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X414022	DD	04/03/24 14:14	
SM 2310 B	**Acidity to pH 8.3**	-48.1	mg/L as CaCO3	10.0			X414014	MWD	04/03/24 08:55	
SM 2320 B	**Total Alkalinity**	48.8	mg/L as CaCO3	1.0			X413174	MWD	03/28/24 14:25	
SM 2320 B	**Bicarbonate**	48.8	mg/L as CaCO3	1.0			X413174	MWD	03/28/24 14:25	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X413174	MWD	03/28/24 14:25	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X413174	MWD	03/28/24 14:25	
SM 2540 C	**Total Diss. Solids**	291	mg/L	10			X413137	TJL	03/29/24 14:05	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X413138	TJL	03/29/24 15:10	
SM 4500 H B	**pH @18.1°C**	6.5	pH Units				X413174	MWD	03/28/24 14:25	H5

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0429**
Reported: 11-Apr-24 14:39

Client Sample ID: **GVMW-8A**
SVL Sample ID: **X4C0429-04 (Ground Water)**

Sampled: 26-Mar-24 14:20
Received: 27-Mar-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	64.7	mg/L	2.00	0.22	10	X413120	RS	03/27/24 14:02	D2,M4
EPA 300.0	**Fluoride**	1.88	mg/L	0.100	0.017		X413120	RS	03/27/24 13:43	
EPA 300.0	**Nitrate as N**	1.15	mg/L	0.050	0.013		X413120	RS	03/27/24 13:43	
EPA 300.0	**Nitrate+Nitrite as N**	1.15	mg/L	0.100	0.044		X413120	RS	03/27/24 13:43	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X413120	RS	03/27/24 13:43	
EPA 300.0	**Sulfate as SO4**	60.6	mg/L	3.00	1.80	10	X413120	RS	03/27/24 14:02	D2,M4
Cation/Anion Balance and TDS Ratios										

Cation Sum: 4.03 meq/L Anion Sum: 4.24 meq/L C/A Balance: -2.56 % Calculated TDS: 242 TDS/cTDS: 1.20

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: **X4C0429**
Reported: 11-Apr-24 14:39

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X414144	05-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X414144	05-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X414144	05-Apr-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X414049	04-Apr-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X414049	04-Apr-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X414049	04-Apr-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X414049	04-Apr-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X414049	04-Apr-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X414049	04-Apr-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X414049	04-Apr-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X414049	04-Apr-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X414049	04-Apr-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X414049	04-Apr-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X414049	04-Apr-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X414049	04-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X414049	04-Apr-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X414049	04-Apr-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X414049	04-Apr-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X414049	04-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X414049	04-Apr-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X414049	04-Apr-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X414049	04-Apr-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X414049	04-Apr-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X414049	04-Apr-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X413183	01-Apr-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X413183	01-Apr-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X413183	01-Apr-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X413183	01-Apr-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X413183	02-Apr-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X414128	08-Apr-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X414018	03-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X414065	03-Apr-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X414166	05-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X414022	03-Apr-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X414014	03-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X413174	28-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X413174	28-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X413174	28-Mar-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X413174	28-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X413137	29-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X413138	29-Mar-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X413120	27-Mar-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X413120	27-Mar-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X413120	27-Mar-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X413120	27-Mar-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X413120	27-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X413120	27-Mar-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0429**
Reported: 11-Apr-24 14:39

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	19.2	20.0	96	85 - 115	X414144	05-Apr-24	
EPA 200.7	Magnesium	mg/L	19.5	20.0	97.5	85 - 115	X414144	05-Apr-24	
EPA 200.7	Potassium	mg/L	19.2	20.0	95.9	85 - 115	X414144	05-Apr-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	1.02	1.00	102	85 - 115	X414049	04-Apr-24	
EPA 200.7	Barium	mg/L	1.03	1.00	103	85 - 115	X414049	04-Apr-24	
EPA 200.7	Beryllium	mg/L	0.984	1.00	98.4	85 - 115	X414049	04-Apr-24	
EPA 200.7	Boron	mg/L	1.01	1.00	101	85 - 115	X414049	04-Apr-24	
EPA 200.7	Cadmium	mg/L	1.02	1.00	102	85 - 115	X414049	04-Apr-24	
EPA 200.7	Calcium	mg/L	19.6	20.0	98.1	85 - 115	X414049	04-Apr-24	
EPA 200.7	Chromium	mg/L	1.03	1.00	103	85 - 115	X414049	04-Apr-24	
EPA 200.7	Cobalt	mg/L	1.01	1.00	101	85 - 115	X414049	04-Apr-24	
EPA 200.7	Copper	mg/L	1.02	1.00	102	85 - 115	X414049	04-Apr-24	
EPA 200.7	Iron	mg/L	10.0	10.0	100	85 - 115	X414049	04-Apr-24	
EPA 200.7	Lead	mg/L	1.03	1.00	103	85 - 115	X414049	04-Apr-24	
EPA 200.7	Lithium	mg/L	1.01	1.00	101	85 - 115	X414049	04-Apr-24	
EPA 200.7	Magnesium	mg/L	21.2	20.0	106	85 - 115	X414049	04-Apr-24	
EPA 200.7	Manganese	mg/L	1.04	1.00	104	85 - 115	X414049	04-Apr-24	
EPA 200.7	Molybdenum	mg/L	1.03	1.00	103	85 - 115	X414049	04-Apr-24	
EPA 200.7	Nickel	mg/L	1.01	1.00	101	85 - 115	X414049	04-Apr-24	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.6	85 - 115	X414049	04-Apr-24	
EPA 200.7	Silver	mg/L	0.0529	0.0500	106	85 - 115	X414049	05-Apr-24	
EPA 200.7	Sodium	mg/L	18.8	19.0	98.9	85 - 115	X414049	04-Apr-24	
EPA 200.7	Vanadium	mg/L	1.04	1.00	104	85 - 115	X414049	04-Apr-24	
EPA 200.7	Zinc	mg/L	1.04	1.00	104	85 - 115	X414049	04-Apr-24	
EPA 200.8	Antimony	mg/L	0.0263	0.0250	105	85 - 115	X413183	01-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0270	0.0250	108	85 - 115	X413183	01-Apr-24	
EPA 200.8	Selenium	mg/L	0.0254	0.0250	102	85 - 115	X413183	01-Apr-24	
EPA 200.8	Thallium	mg/L	0.0270	0.0250	108	85 - 115	X413183	01-Apr-24	
EPA 200.8	Uranium	mg/L	0.0263	0.0250	105	85 - 115	X413183	01-Apr-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00197	0.00200	98.5	85 - 115	X414128	08-Apr-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.109	0.100	109	90 - 110	X414018	03-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X414065	03-Apr-24	
EPA 350.1	Ammonia as N	mg/L	0.984	1.00	98.4	90 - 110	X414166	05-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0990	0.100	99.0	90 - 110	X414022	03-Apr-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1630	1640	99.2	95.4 - 104	X414014	03-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.3	9.93	104	96.4 - 105	X413174	28-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	96.4 - 105	X413174	28-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	402	397	101	96.4 - 105	X413174	28-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X413138	29-Mar-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.91	3.00	97.1	90 - 110	X413120	27-Mar-24	
EPA 300.0	Fluoride	mg/L	1.92	2.00	96.0	90 - 110	X413120	27-Mar-24	
EPA 300.0	Nitrate as N	mg/L	1.93	2.00	96.5	90 - 110	X413120	27-Mar-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.35	4.50	96.6	90 - 110	X413120	27-Mar-24	
EPA 300.0	Nitrite as N	mg/L	2.42	2.50	96.7	90 - 110	X413120	27-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	10.0	10.0	100	90 - 110	X413120	27-Mar-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0429**
Reported: 11-Apr-24 14:39

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	2130	2120	0.7	20	X414014 - X4C0359-06	03-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0	<1.0	UDL	20	X413174 - X4C0429-02	28-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X413174 - X4C0429-02	28-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X413174 - X4C0429-02	28-Mar-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X413174 - X4C0429-02	28-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	198	203	2.5	10	X413137 - X4C0398-02	29-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	765	793	3.6	10	X413137 - X4C0431-06	29-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	39.0	39.0	0.0	10	X413138 - X4C0398-02	29-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	7.0	7.0	0.0	10	X413138 - X4C0431-06	29-Mar-24	
SM 4500 H B	pH @18.2°C	pH Units	2.9	2.8	0.4	20	X413174 - X4C0429-02	28-Mar-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	57.9	38.3	20.0	98	70 - 130	X414144 - X4D0048-01	05-Apr-24	
EPA 200.7	Magnesium	mg/L	43.7	23.8	20.0	99.7	70 - 130	X414144 - X4D0048-01	05-Apr-24	
EPA 200.7	Potassium	mg/L	24.4	5.56	20.0	94.4	70 - 130	X414144 - X4D0048-01	05-Apr-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.00	<0.080	1.00	100	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Aluminum	mg/L	1.02	<0.080	1.00	102	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Barium	mg/L	0.960	<0.0020	1.00	96.0	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Barium	mg/L	1.07	0.0979	1.00	96.8	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Beryllium	mg/L	1.01	<0.00200	1.00	101	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Beryllium	mg/L	1.03	<0.00200	1.00	103	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Boron	mg/L	1.04	<0.0400	1.00	103	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Boron	mg/L	1.07	<0.0400	1.00	104	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Cadmium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Cadmium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Calcium	mg/L	68.2	49.9	20.0	91.5	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Calcium	mg/L	123	105	20.0	87.8	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Chromium	mg/L	1.02	<0.0060	1.00	102	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Chromium	mg/L	1.04	<0.0060	1.00	104	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Cobalt	mg/L	0.997	<0.0060	1.00	99.7	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Cobalt	mg/L	0.990	<0.0060	1.00	99.0	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Copper	mg/L	1.02	<0.0100	1.00	102	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Copper	mg/L	1.05	<0.0100	1.00	105	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Iron	mg/L	9.84	<0.100	10.0	98.4	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Iron	mg/L	9.92	<0.100	10.0	99.2	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Lead	mg/L	1.03	<0.0075	1.00	103	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Lead	mg/L	1.03	<0.0075	1.00	103	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Lithium	mg/L	1.01	<0.040	1.00	101	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Lithium	mg/L	1.01	<0.040	1.00	101	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Magnesium	mg/L	26.3	6.10	20.0	101	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Magnesium	mg/L	52.1	33.4	20.0	93.3	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Manganese	mg/L	1.02	<0.0080	1.00	101	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Manganese	mg/L	1.04	<0.0080	1.00	103	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Molybdenum	mg/L	1.05	<0.0080	1.00	105	70 - 130	X414049 - X4C0429-04	04-Apr-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0429**
Reported: 11-Apr-24 14:39

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Molybdenum	mg/L	1.06	<0.0080	1.00	106	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Nickel	mg/L	1.00	<0.0100	1.00	99.8	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Nickel	mg/L	0.995	<0.0100	1.00	99.0	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Potassium	mg/L	20.4	0.86	20.0	97.6	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Potassium	mg/L	21.6	1.80	20.0	99.2	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Silver	mg/L	0.0593	<0.0050	0.0500	119	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Silver	mg/L	0.0565	<0.0050	0.0500	113	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Sodium	mg/L	42.4	24.8	19.0	92.7	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Sodium	mg/L	60.8	42.8	19.0	95.2	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Vanadium	mg/L	1.04	<0.0050	1.00	104	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Vanadium	mg/L	1.06	<0.0050	1.00	106	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Zinc	mg/L	1.05	<0.0100	1.00	105	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Zinc	mg/L	1.05	<0.0100	1.00	105	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.8	Antimony	mg/L	0.0277	<0.00100	0.0250	111	70 - 130	X413183 - X4C0287-01	01-Apr-24	
EPA 200.8	Antimony	mg/L	0.0287	<0.00200	0.0250	115	70 - 130	X413183 - X4C0429-01	02-Apr-24	D1
EPA 200.8	Arsenic	mg/L	0.0279	<0.00100	0.0250	112	70 - 130	X413183 - X4C0287-01	01-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0273	<0.0100	0.0250	109	70 - 130	X413183 - X4C0429-01	02-Apr-24	D1
EPA 200.8	Selenium	mg/L	0.0282	0.00178	0.0250	106	70 - 130	X413183 - X4C0287-01	01-Apr-24	
EPA 200.8	Selenium	mg/L	0.0336	<0.0100	0.0250	115	70 - 130	X413183 - X4C0429-01	02-Apr-24	D1
EPA 200.8	Thallium	mg/L	0.0283	<0.000200	0.0250	113	70 - 130	X413183 - X4C0287-01	01-Apr-24	
EPA 200.8	Thallium	mg/L	0.0296	<0.00200	0.0250	118	70 - 130	X413183 - X4C0429-01	02-Apr-24	D1
EPA 200.8	Uranium	mg/L	0.0332	0.00502	0.0250	113	70 - 130	X413183 - X4C0287-01	01-Apr-24	
EPA 200.8	Uranium	mg/L	0.0645	0.0378	0.0250	107	70 - 130	X413183 - X4C0429-01	02-Apr-24	D1
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00192	<0.000200	0.00200	96.0	70 - 130	X414128 - X4C0429-01	08-Apr-24	
EPA 245.1	Mercury	mg/L	0.00201	<0.000200	0.00200	101	70 - 130	X414128 - X4C0465-01	08-Apr-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.117	<0.0050	0.100	117	79 - 121	X414018 - X4C0342-01	03-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.119	0.0134	0.100	106	90 - 110	X414065 - X4C0462-05	03-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.117	0.0109	0.100	106	90 - 110	X414065 - X4C0462-03	03-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.05	0.037	1.00	101	90 - 110	X414166 - X4C0420-02	05-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	102	90 - 110	X414166 - X4C0420-03	05-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.101	<0.0050	0.100	99.0	82 - 118	X414022 - X4C0342-01	03-Apr-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	66.4	64.7	3.00	0.30R>S	90 - 110	X413120 - X4C0429-04	27-Mar-24	D2,M4
EPA 300.0	Fluoride	mg/L	3.82	1.88	2.00	97.0	90 - 110	X413120 - X4C0429-04	27-Mar-24	
EPA 300.0	Nitrate as N	mg/L	3.15	1.15	2.00	99.8	90 - 110	X413120 - X4C0429-04	27-Mar-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.13	1.15	4.00	99.3	90 - 110	X413120 - X4C0429-04	27-Mar-24	
EPA 300.0	Nitrite as N	mg/L	1.98	<0.050	2.00	98.8	90 - 110	X413120 - X4C0429-04	27-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	69.5	60.6	10.0	0.30R>S	90 - 110	X413120 - X4C0429-04	27-Mar-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	56.4	57.9	20.0	3.0	20	91	X414144 - X4D0048-01	
EPA 200.7	Magnesium	mg/L	43.1	43.7	20.0	1.3	20	96.8	X414144 - X4D0048-01	
EPA 200.7	Potassium	mg/L	23.8	24.4	20.0	2.5	20	91.4	X414144 - X4D0048-01	

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

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Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0429**
Reported: 11-Apr-24 14:39

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	1.00	1.00	0.2	20	101	X414049 - X4C0429-04	
EPA 200.7	Barium	mg/L	0.990	0.960	1.00	3.1	20	99.0	X414049 - X4C0429-04	
EPA 200.7	Beryllium	mg/L	0.994	1.01	1.00	1.5	20	99.4	X414049 - X4C0429-04	
EPA 200.7	Boron	mg/L	1.04	1.04	1.00	0.5	20	103	X414049 - X4C0429-04	
EPA 200.7	Cadmium	mg/L	1.01	1.02	1.00	0.8	20	101	X414049 - X4C0429-04	
EPA 200.7	Calcium	mg/L	68.1	68.2	20.0	0.2	20	90.8	X414049 - X4C0429-04	
EPA 200.7	Chromium	mg/L	1.03	1.02	1.00	0.3	20	103	X414049 - X4C0429-04	
EPA 200.7	Cobalt	mg/L	0.988	0.997	1.00	0.8	20	98.8	X414049 - X4C0429-04	
EPA 200.7	Copper	mg/L	1.02	1.02	1.00	0.3	20	102	X414049 - X4C0429-04	
EPA 200.7	Iron	mg/L	9.91	9.84	10.0	0.7	20	99.1	X414049 - X4C0429-04	
EPA 200.7	Lead	mg/L	1.02	1.03	1.00	1.4	20	102	X414049 - X4C0429-04	
EPA 200.7	Lithium	mg/L	1.01	1.01	1.00	0.4	20	101	X414049 - X4C0429-04	
EPA 200.7	Magnesium	mg/L	26.9	26.3	20.0	2.1	20	104	X414049 - X4C0429-04	
EPA 200.7	Manganese	mg/L	1.03	1.02	1.00	0.6	20	102	X414049 - X4C0429-04	
EPA 200.7	Molybdenum	mg/L	1.04	1.05	1.00	0.6	20	104	X414049 - X4C0429-04	
EPA 200.7	Nickel	mg/L	0.994	1.00	1.00	1.0	20	98.8	X414049 - X4C0429-04	
EPA 200.7	Potassium	mg/L	20.6	20.4	20.0	1.0	20	98.6	X414049 - X4C0429-04	
EPA 200.7	Silver	mg/L	0.0581	0.0593	0.0500	2.1	20	116	X414049 - X4C0429-04	
EPA 200.7	Sodium	mg/L	42.6	42.4	19.0	0.4	20	93.6	X414049 - X4C0429-04	
EPA 200.7	Vanadium	mg/L	1.04	1.04	1.00	0.4	20	104	X414049 - X4C0429-04	
EPA 200.7	Zinc	mg/L	1.04	1.05	1.00	1.3	20	104	X414049 - X4C0429-04	
EPA 200.8	Antimony	mg/L	0.0268	0.0277	0.0250	3.3	20	107	X413183 - X4C0287-01	
EPA 200.8	Arsenic	mg/L	0.0274	0.0279	0.0250	1.9	20	110	X413183 - X4C0287-01	
EPA 200.8	Selenium	mg/L	0.0287	0.0282	0.0250	1.7	20	108	X413183 - X4C0287-01	
EPA 200.8	Thallium	mg/L	0.0276	0.0283	0.0250	2.3	20	111	X413183 - X4C0287-01	
EPA 200.8	Uranium	mg/L	0.0323	0.0332	0.0250	2.6	20	109	X413183 - X4C0287-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00205	0.00192	0.00200	6.6	20	103	X414128 - X4C0429-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.127	0.117	0.100	8.2	11	127	X414018 - X4C0342-01	M1
EPA 335.4	Cyanide (total)	mg/L	0.122	0.119	0.100	2.3	20	109	X414065 - X4C0462-05	
EPA 350.1	Ammonia as N	mg/L	1.07	1.05	1.00	1.6	20	103	X414166 - X4C0420-02	
OIA 1677	Cyanide (WAD)	mg/L	0.0960	0.101	0.100	5.1	11	94.0	X414022 - X4C0342-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	66.5	66.4	3.00	0.2	20	0.30R>S	X413120 - X4C0429-04	D2,M4
EPA 300.0	Fluoride	mg/L	3.80	3.82	2.00	0.5	20	96.0	X413120 - X4C0429-04	
EPA 300.0	Nitrate as N	mg/L	3.16	3.15	2.00	0.2	20	100	X413120 - X4C0429-04	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.16	5.13	4.00	0.7	20	100	X413120 - X4C0429-04	
EPA 300.0	Nitrite as N	mg/L	2.01	1.98	2.00	1.5	20	100	X413120 - X4C0429-04	
EPA 300.0	Sulfate as SO4	mg/L	69.5	69.5	10.0	0.0	20	0.30R>S	X413120 - X4C0429-04	D2,M4

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4C0429**
Victor, CO 80860	Reported: 11-Apr-24 14:39

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.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
N1	See case narrative.
Q12	Sample was received and analyzed with pH <12.
Q5C	After two pH adjustments, the method-specified pH was not achieved.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0429**
Reported: 11-Apr-24 14:39

Client Sample ID: **PGMW-5**
SVL Sample ID: **X4C0429-01 (Ground Water)**

Sampled: 26-Mar-24 09:14
Received: 27-Mar-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	118	mg/L	0.100	0.069		X414144	JRR	04/05/24 11:43	
EPA 200.7	**Magnesium**	51.1	mg/L	0.500	0.090		X414144	JRR	04/05/24 11:43	
EPA 200.7	**Potassium**	4.78	mg/L	0.50	0.18		X414144	JRR	04/05/24 11:43	
SM 2340 B	**Hardness (as CaCO3)**	518	mg/L	2.31	0.543		N/A		04/05/24 11:43	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	71.4	mg/L	0.080	0.054		X414049	NMS	04/04/24 15:52	
EPA 200.7	**Barium**	0.0089	mg/L	0.0020	0.0019		X414049	NMS	04/05/24 10:33	
EPA 200.7	**Beryllium**	0.00891	mg/L	0.00200	0.00080		X414049	NMS	04/04/24 15:52	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X414049	NMS	04/04/24 15:52	
EPA 200.7	**Cadmium**	0.0473	mg/L	0.0020	0.0016		X414049	NMS	04/04/24 15:52	
EPA 200.7	**Calcium**	122	mg/L	0.100	0.069		X414049	NMS	04/04/24 15:52	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X414049	NMS	04/04/24 15:52	
EPA 200.7	**Cobalt**	0.191	mg/L	0.0060	0.0046		X414049	NMS	04/04/24 15:52	
EPA 200.7	**Copper**	1.55	mg/L	0.0100	0.0027		X414049	NMS	04/04/24 15:52	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X414049	NMS	04/04/24 15:52	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X414049	NMS	04/04/24 15:52	
EPA 200.7	**Lithium**	0.132	mg/L	0.040	0.025		X414049	NMS	04/04/24 15:52	
EPA 200.7	**Magnesium**	51.5	mg/L	0.500	0.090		X414049	NMS	04/05/24 10:33	
EPA 200.7	**Manganese**	51.0	mg/L	0.0080	0.0034		X414049	NMS	04/04/24 15:52	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X414049	NMS	04/04/24 15:52	
EPA 200.7	**Nickel**	0.368	mg/L	0.0100	0.0048		X414049	NMS	04/04/24 15:52	
EPA 200.7	**Potassium**	5.26	mg/L	0.50	0.18		X414049	NMS	04/04/24 15:52	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X414049	NMS	04/05/24 10:33	
EPA 200.7	**Sodium**	32.6	mg/L	0.50	0.12		X414049	NMS	04/04/24 15:52	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X414049	NMS	04/04/24 15:52	
EPA 200.7	**Zinc**	6.58	mg/L	0.0100	0.0054		X414049	NMS	04/04/24 15:52	
EPA 200.8	Antimony	< 0.00200	mg/L	0.00200	0.00144	2	X413183	SMU	04/02/24 09:27	D1,N1
EPA 200.8	Arsenic	< 0.0100	mg/L	0.0100	0.00210	10	X413183	SMU	04/02/24 10:02	D1
EPA 200.8	Selenium	< 0.0100	mg/L	0.0100	0.00240	10	X413183	SMU	04/02/24 10:02	D1
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X413183	SMU	04/02/24 10:02	D1
EPA 200.8	**Uranium**	0.0378	mg/L	0.00100	0.000520	10	X413183	SMU	04/02/24 10:02	D1
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X414128	MAC	04/08/24 14:12	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @21.0°C	< 0.0050	mg/L	0.0050	0.0048		X414018	DD	04/03/24 11:57	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X414065	DD	04/03/24 12:46	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X414166	DD	04/05/24 10:31	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X414022	DD	04/03/24 14:05	
SM 2310 B	**Acidity to pH 8.3**	506	mg/L as CaCO3	10.0			X414014	MWD	04/03/24 08:55	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X413174	MWD	03/28/24 13:58	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X413174	MWD	03/28/24 13:58	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X413174	MWD	03/28/24 13:58	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X413174	MWD	03/28/24 13:58	
SM 2540 C	**Total Diss. Solids**	1450	mg/L	10			X413137	TJL	03/29/24 14:05	
SM 2540 D	**Total Susp. Solids**	10.0	mg/L	5.0			X413138	TJL	03/29/24 15:10	
SM 4500 H B	**pH @18.2°C**	3.8	pH Units				X413174	MWD	03/28/24 13:58	H5

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0429**
Reported: 11-Apr-24 14:39

Client Sample ID: **PGMW-5**
SVL Sample ID: **X4C0429-01 (Ground Water)**

Sampled: 26-Mar-24 09:14
Received: 27-Mar-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	61.1	mg/L	10.0	1.10	50	X413120	RS	03/27/24 15:52	D2
EPA 300.0	**Fluoride**	6.01	mg/L	0.100	0.017		X413120	RS	03/27/24 15:34	
EPA 300.0	**Nitrate as N**	3.45	mg/L	0.050	0.013		X413120	RS	03/27/24 15:34	
EPA 300.0	**Nitrate+Nitrite as N**	3.45	mg/L	0.100	0.044		X413120	RS	03/27/24 15:34	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X413120	RS	03/27/24 15:34	
EPA 300.0	**Sulfate as SO4**	924	mg/L	15.0	9.00	50	X413120	RS	03/27/24 15:52	D2
Cation/Anion Balance and TDS Ratios										

Cation Sum: 21.7 meq/L Anion Sum: 21.5 meq/L C/A Balance: 0.37 % Calculated TDS: 1215 TDS/cTDS: 1.19

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

Kathryn Salter
Project Manager

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0429**
Reported: 11-Apr-24 14:39

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X414144	05-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X414144	05-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X414144	05-Apr-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X414049	04-Apr-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X414049	04-Apr-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X414049	04-Apr-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X414049	04-Apr-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X414049	04-Apr-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X414049	04-Apr-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X414049	04-Apr-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X414049	04-Apr-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X414049	04-Apr-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X414049	04-Apr-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X414049	04-Apr-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X414049	04-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X414049	04-Apr-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X414049	04-Apr-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X414049	04-Apr-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X414049	04-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X414049	04-Apr-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X414049	04-Apr-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X414049	04-Apr-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X414049	04-Apr-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X414049	04-Apr-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X413183	01-Apr-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X413183	01-Apr-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X413183	01-Apr-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X413183	01-Apr-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X413183	02-Apr-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X414128	08-Apr-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X414018	03-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X414065	03-Apr-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X414166	05-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X414022	03-Apr-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X414014	03-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X413174	28-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X413174	28-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X413174	28-Mar-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X413174	28-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X413137	29-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X413138	29-Mar-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X413120	27-Mar-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X413120	27-Mar-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X413120	27-Mar-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X413120	27-Mar-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X413120	27-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X413120	27-Mar-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0429**
Reported: 11-Apr-24 14:39

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	19.2	20.0	96	85 - 115	X414144	05-Apr-24	
EPA 200.7	Magnesium	mg/L	19.5	20.0	97.5	85 - 115	X414144	05-Apr-24	
EPA 200.7	Potassium	mg/L	19.2	20.0	95.9	85 - 115	X414144	05-Apr-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	1.02	1.00	102	85 - 115	X414049	04-Apr-24	
EPA 200.7	Barium	mg/L	1.03	1.00	103	85 - 115	X414049	04-Apr-24	
EPA 200.7	Beryllium	mg/L	0.984	1.00	98.4	85 - 115	X414049	04-Apr-24	
EPA 200.7	Boron	mg/L	1.01	1.00	101	85 - 115	X414049	04-Apr-24	
EPA 200.7	Cadmium	mg/L	1.02	1.00	102	85 - 115	X414049	04-Apr-24	
EPA 200.7	Calcium	mg/L	19.6	20.0	98.1	85 - 115	X414049	04-Apr-24	
EPA 200.7	Chromium	mg/L	1.03	1.00	103	85 - 115	X414049	04-Apr-24	
EPA 200.7	Cobalt	mg/L	1.01	1.00	101	85 - 115	X414049	04-Apr-24	
EPA 200.7	Copper	mg/L	1.02	1.00	102	85 - 115	X414049	04-Apr-24	
EPA 200.7	Iron	mg/L	10.0	10.0	100	85 - 115	X414049	04-Apr-24	
EPA 200.7	Lead	mg/L	1.03	1.00	103	85 - 115	X414049	04-Apr-24	
EPA 200.7	Lithium	mg/L	1.01	1.00	101	85 - 115	X414049	04-Apr-24	
EPA 200.7	Magnesium	mg/L	21.2	20.0	106	85 - 115	X414049	04-Apr-24	
EPA 200.7	Manganese	mg/L	1.04	1.00	104	85 - 115	X414049	04-Apr-24	
EPA 200.7	Molybdenum	mg/L	1.03	1.00	103	85 - 115	X414049	04-Apr-24	
EPA 200.7	Nickel	mg/L	1.01	1.00	101	85 - 115	X414049	04-Apr-24	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.6	85 - 115	X414049	04-Apr-24	
EPA 200.7	Silver	mg/L	0.0529	0.0500	106	85 - 115	X414049	05-Apr-24	
EPA 200.7	Sodium	mg/L	18.8	19.0	98.9	85 - 115	X414049	04-Apr-24	
EPA 200.7	Vanadium	mg/L	1.04	1.00	104	85 - 115	X414049	04-Apr-24	
EPA 200.7	Zinc	mg/L	1.04	1.00	104	85 - 115	X414049	04-Apr-24	
EPA 200.8	Antimony	mg/L	0.0263	0.0250	105	85 - 115	X413183	01-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0270	0.0250	108	85 - 115	X413183	01-Apr-24	
EPA 200.8	Selenium	mg/L	0.0254	0.0250	102	85 - 115	X413183	01-Apr-24	
EPA 200.8	Thallium	mg/L	0.0270	0.0250	108	85 - 115	X413183	01-Apr-24	
EPA 200.8	Uranium	mg/L	0.0263	0.0250	105	85 - 115	X413183	01-Apr-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00197	0.00200	98.5	85 - 115	X414128	08-Apr-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.109	0.100	109	90 - 110	X414018	03-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X414065	03-Apr-24	
EPA 350.1	Ammonia as N	mg/L	0.984	1.00	98.4	90 - 110	X414166	05-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0990	0.100	99.0	90 - 110	X414022	03-Apr-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1630	1640	99.2	95.4 - 104	X414014	03-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.3	9.93	104	96.4 - 105	X413174	28-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	96.4 - 105	X413174	28-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	402	397	101	96.4 - 105	X413174	28-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X413138	29-Mar-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.91	3.00	97.1	90 - 110	X413120	27-Mar-24	
EPA 300.0	Fluoride	mg/L	1.92	2.00	96.0	90 - 110	X413120	27-Mar-24	
EPA 300.0	Nitrate as N	mg/L	1.93	2.00	96.5	90 - 110	X413120	27-Mar-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.35	4.50	96.6	90 - 110	X413120	27-Mar-24	
EPA 300.0	Nitrite as N	mg/L	2.42	2.50	96.7	90 - 110	X413120	27-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	10.0	10.0	100	90 - 110	X413120	27-Mar-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0429**
Reported: 11-Apr-24 14:39

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	2130	2120	0.7	20	X414014 - X4C0359-06	03-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0	<1.0	UDL	20	X413174 - X4C0429-02	28-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X413174 - X4C0429-02	28-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X413174 - X4C0429-02	28-Mar-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X413174 - X4C0429-02	28-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	198	203	2.5	10	X413137 - X4C0398-02	29-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	765	793	3.6	10	X413137 - X4C0431-06	29-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	39.0	39.0	0.0	10	X413138 - X4C0398-02	29-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	7.0	7.0	0.0	10	X413138 - X4C0431-06	29-Mar-24	
SM 4500 H B	pH @18.2°C	pH Units	2.9	2.8	0.4	20	X413174 - X4C0429-02	28-Mar-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	57.9	38.3	20.0	98	70 - 130	X414144 - X4D0048-01	05-Apr-24	
EPA 200.7	Magnesium	mg/L	43.7	23.8	20.0	99.7	70 - 130	X414144 - X4D0048-01	05-Apr-24	
EPA 200.7	Potassium	mg/L	24.4	5.56	20.0	94.4	70 - 130	X414144 - X4D0048-01	05-Apr-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.00	<0.080	1.00	100	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Aluminum	mg/L	1.02	<0.080	1.00	102	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Barium	mg/L	0.960	<0.0020	1.00	96.0	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Barium	mg/L	1.07	0.0979	1.00	96.8	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Beryllium	mg/L	1.01	<0.00200	1.00	101	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Beryllium	mg/L	1.03	<0.00200	1.00	103	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Boron	mg/L	1.04	<0.0400	1.00	103	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Boron	mg/L	1.07	<0.0400	1.00	104	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Cadmium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Cadmium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Calcium	mg/L	68.2	49.9	20.0	91.5	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Calcium	mg/L	123	105	20.0	87.8	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Chromium	mg/L	1.02	<0.0060	1.00	102	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Chromium	mg/L	1.04	<0.0060	1.00	104	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Cobalt	mg/L	0.997	<0.0060	1.00	99.7	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Cobalt	mg/L	0.990	<0.0060	1.00	99.0	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Copper	mg/L	1.02	<0.0100	1.00	102	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Copper	mg/L	1.05	<0.0100	1.00	105	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Iron	mg/L	9.84	<0.100	10.0	98.4	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Iron	mg/L	9.92	<0.100	10.0	99.2	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Lead	mg/L	1.03	<0.0075	1.00	103	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Lead	mg/L	1.03	<0.0075	1.00	103	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Lithium	mg/L	1.01	<0.040	1.00	101	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Lithium	mg/L	1.01	<0.040	1.00	101	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Magnesium	mg/L	26.3	6.10	20.0	101	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Magnesium	mg/L	52.1	33.4	20.0	93.3	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Manganese	mg/L	1.02	<0.0080	1.00	101	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Manganese	mg/L	1.04	<0.0080	1.00	103	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Molybdenum	mg/L	1.05	<0.0080	1.00	105	70 - 130	X414049 - X4C0429-04	04-Apr-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0429**
Reported: 11-Apr-24 14:39

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Molybdenum	mg/L	1.06	<0.0080	1.00	106	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Nickel	mg/L	1.00	<0.0100	1.00	99.8	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Nickel	mg/L	0.995	<0.0100	1.00	99.0	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Potassium	mg/L	20.4	0.86	20.0	97.6	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Potassium	mg/L	21.6	1.80	20.0	99.2	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Silver	mg/L	0.0593	<0.0050	0.0500	119	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Silver	mg/L	0.0565	<0.0050	0.0500	113	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Sodium	mg/L	42.4	24.8	19.0	92.7	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Sodium	mg/L	60.8	42.8	19.0	95.2	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Vanadium	mg/L	1.04	<0.0050	1.00	104	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Vanadium	mg/L	1.06	<0.0050	1.00	106	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.7	Zinc	mg/L	1.05	<0.0100	1.00	105	70 - 130	X414049 - X4C0429-04	04-Apr-24	
EPA 200.7	Zinc	mg/L	1.05	<0.0100	1.00	105	70 - 130	X414049 - X4C0419-07	04-Apr-24	
EPA 200.8	Antimony	mg/L	0.0277	<0.00100	0.0250	111	70 - 130	X413183 - X4C0287-01	01-Apr-24	
EPA 200.8	Antimony	mg/L	0.0287	<0.00200	0.0250	115	70 - 130	X413183 - X4C0429-01	02-Apr-24	D1
EPA 200.8	Arsenic	mg/L	0.0279	<0.00100	0.0250	112	70 - 130	X413183 - X4C0287-01	01-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0273	<0.0100	0.0250	109	70 - 130	X413183 - X4C0429-01	02-Apr-24	D1
EPA 200.8	Selenium	mg/L	0.0282	0.00178	0.0250	106	70 - 130	X413183 - X4C0287-01	01-Apr-24	
EPA 200.8	Selenium	mg/L	0.0336	<0.0100	0.0250	115	70 - 130	X413183 - X4C0429-01	02-Apr-24	D1
EPA 200.8	Thallium	mg/L	0.0283	<0.000200	0.0250	113	70 - 130	X413183 - X4C0287-01	01-Apr-24	
EPA 200.8	Thallium	mg/L	0.0296	<0.00200	0.0250	118	70 - 130	X413183 - X4C0429-01	02-Apr-24	D1
EPA 200.8	Uranium	mg/L	0.0332	0.00502	0.0250	113	70 - 130	X413183 - X4C0287-01	01-Apr-24	
EPA 200.8	Uranium	mg/L	0.0645	0.0378	0.0250	107	70 - 130	X413183 - X4C0429-01	02-Apr-24	D1
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00192	<0.000200	0.00200	96.0	70 - 130	X414128 - X4C0429-01	08-Apr-24	
EPA 245.1	Mercury	mg/L	0.00201	<0.000200	0.00200	101	70 - 130	X414128 - X4C0465-01	08-Apr-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.117	<0.0050	0.100	117	79 - 121	X414018 - X4C0342-01	03-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.119	0.0134	0.100	106	90 - 110	X414065 - X4C0462-05	03-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.117	0.0109	0.100	106	90 - 110	X414065 - X4C0462-03	03-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.05	0.037	1.00	101	90 - 110	X414166 - X4C0420-02	05-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	102	90 - 110	X414166 - X4C0420-03	05-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.101	<0.0050	0.100	99.0	82 - 118	X414022 - X4C0342-01	03-Apr-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	66.4	64.7	3.00	0.30R>S	90 - 110	X413120 - X4C0429-04	27-Mar-24	D2,M4
EPA 300.0	Fluoride	mg/L	3.82	1.88	2.00	97.0	90 - 110	X413120 - X4C0429-04	27-Mar-24	
EPA 300.0	Nitrate as N	mg/L	3.15	1.15	2.00	99.8	90 - 110	X413120 - X4C0429-04	27-Mar-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.13	1.15	4.00	99.3	90 - 110	X413120 - X4C0429-04	27-Mar-24	
EPA 300.0	Nitrite as N	mg/L	1.98	<0.050	2.00	98.8	90 - 110	X413120 - X4C0429-04	27-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	69.5	60.6	10.0	0.30R>S	90 - 110	X413120 - X4C0429-04	27-Mar-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	56.4	57.9	20.0	3.0	20	91	X414144 - X4D0048-01	
EPA 200.7	Magnesium	mg/L	43.1	43.7	20.0	1.3	20	96.8	X414144 - X4D0048-01	
EPA 200.7	Potassium	mg/L	23.8	24.4	20.0	2.5	20	91.4	X414144 - X4D0048-01	

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0429**
Reported: 11-Apr-24 14:39

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	1.00	1.00	0.2	20	101	X414049 - X4C0429-04	
EPA 200.7	Barium	mg/L	0.990	0.960	1.00	3.1	20	99.0	X414049 - X4C0429-04	
EPA 200.7	Beryllium	mg/L	0.994	1.01	1.00	1.5	20	99.4	X414049 - X4C0429-04	
EPA 200.7	Boron	mg/L	1.04	1.04	1.00	0.5	20	103	X414049 - X4C0429-04	
EPA 200.7	Cadmium	mg/L	1.01	1.02	1.00	0.8	20	101	X414049 - X4C0429-04	
EPA 200.7	Calcium	mg/L	68.1	68.2	20.0	0.2	20	90.8	X414049 - X4C0429-04	
EPA 200.7	Chromium	mg/L	1.03	1.02	1.00	0.3	20	103	X414049 - X4C0429-04	
EPA 200.7	Cobalt	mg/L	0.988	0.997	1.00	0.8	20	98.8	X414049 - X4C0429-04	
EPA 200.7	Copper	mg/L	1.02	1.02	1.00	0.3	20	102	X414049 - X4C0429-04	
EPA 200.7	Iron	mg/L	9.91	9.84	10.0	0.7	20	99.1	X414049 - X4C0429-04	
EPA 200.7	Lead	mg/L	1.02	1.03	1.00	1.4	20	102	X414049 - X4C0429-04	
EPA 200.7	Lithium	mg/L	1.01	1.01	1.00	0.4	20	101	X414049 - X4C0429-04	
EPA 200.7	Magnesium	mg/L	26.9	26.3	20.0	2.1	20	104	X414049 - X4C0429-04	
EPA 200.7	Manganese	mg/L	1.03	1.02	1.00	0.6	20	102	X414049 - X4C0429-04	
EPA 200.7	Molybdenum	mg/L	1.04	1.05	1.00	0.6	20	104	X414049 - X4C0429-04	
EPA 200.7	Nickel	mg/L	0.994	1.00	1.00	1.0	20	98.8	X414049 - X4C0429-04	
EPA 200.7	Potassium	mg/L	20.6	20.4	20.0	1.0	20	98.6	X414049 - X4C0429-04	
EPA 200.7	Silver	mg/L	0.0581	0.0593	0.0500	2.1	20	116	X414049 - X4C0429-04	
EPA 200.7	Sodium	mg/L	42.6	42.4	19.0	0.4	20	93.6	X414049 - X4C0429-04	
EPA 200.7	Vanadium	mg/L	1.04	1.04	1.00	0.4	20	104	X414049 - X4C0429-04	
EPA 200.7	Zinc	mg/L	1.04	1.05	1.00	1.3	20	104	X414049 - X4C0429-04	
EPA 200.8	Antimony	mg/L	0.0268	0.0277	0.0250	3.3	20	107	X413183 - X4C0287-01	
EPA 200.8	Arsenic	mg/L	0.0274	0.0279	0.0250	1.9	20	110	X413183 - X4C0287-01	
EPA 200.8	Selenium	mg/L	0.0287	0.0282	0.0250	1.7	20	108	X413183 - X4C0287-01	
EPA 200.8	Thallium	mg/L	0.0276	0.0283	0.0250	2.3	20	111	X413183 - X4C0287-01	
EPA 200.8	Uranium	mg/L	0.0323	0.0332	0.0250	2.6	20	109	X413183 - X4C0287-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00205	0.00192	0.00200	6.6	20	103	X414128 - X4C0429-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.127	0.117	0.100	8.2	11	127	X414018 - X4C0342-01	M1
EPA 335.4	Cyanide (total)	mg/L	0.122	0.119	0.100	2.3	20	109	X414065 - X4C0462-05	
EPA 350.1	Ammonia as N	mg/L	1.07	1.05	1.00	1.6	20	103	X414166 - X4C0420-02	
OIA 1677	Cyanide (WAD)	mg/L	0.0960	0.101	0.100	5.1	11	94.0	X414022 - X4C0342-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	66.5	66.4	3.00	0.2	20	0.30R>S	X413120 - X4C0429-04	D2,M4
EPA 300.0	Fluoride	mg/L	3.80	3.82	2.00	0.5	20	96.0	X413120 - X4C0429-04	
EPA 300.0	Nitrate as N	mg/L	3.16	3.15	2.00	0.2	20	100	X413120 - X4C0429-04	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.16	5.13	4.00	0.7	20	100	X413120 - X4C0429-04	
EPA 300.0	Nitrite as N	mg/L	2.01	1.98	2.00	1.5	20	100	X413120 - X4C0429-04	
EPA 300.0	Sulfate as SO4	mg/L	69.5	69.5	10.0	0.0	20	0.30R>S	X413120 - X4C0429-04	D2,M4

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4C0429**
Victor, CO 80860	Reported: 11-Apr-24 14:39

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.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
N1	See case narrative.
Q12	Sample was received and analyzed with pH <12.
Q5C	After two pH adjustments, the method-specified pH was not achieved.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4C0456**
Victor, CO 80860	Reported: 15-Apr-24 14:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-8B	X4C0456-01	Ground Water	27-Mar-24 09:45	BD	28-Mar-2024	

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

Case Narrative: X4C0456

The state of origin only accredits for drinking water analyses.

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

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

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0456**
Reported: 15-Apr-24 14:40

Client Sample ID: **GVMW-8B**
SVL Sample ID: **X4C0456-01 (Ground Water)**

Sampled: 27-Mar-24 09:45
Received: 28-Mar-24
Sampled By: BD

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**	44.7	mg/L	0.100	0.069		X414174	NMS	04/09/24 13:43	
EPA 200.7	**Magnesium**	7.28	mg/L	0.500	0.090		X414174	NMS	04/09/24 13:43	
EPA 200.7	**Potassium**	15.5	mg/L	0.50	0.18		X414174	NMS	04/09/24 13:43	
SM 2340 B	**Hardness (as CaCO3)**	142	mg/L	2.31	0.543		N/A		04/08/24 12:42	
SM 2340 B	**Hardness (as CaCO3)**	140	mg/L	2.31	0.543		N/A		04/15/24 12:46	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X414218	NMS	04/15/24 12:46	
EPA 200.7	**Barium**	0.0058	mg/L	0.0020	0.0019		X414218	NMS	04/15/24 12:46	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X414218	NMS	04/15/24 12:46	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X414218	NMS	04/15/24 12:46	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X414218	NMS	04/15/24 12:46	
EPA 200.7	**Calcium**	44.1	mg/L	0.100	0.069		X414218	NMS	04/15/24 12:46	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X414218	NMS	04/15/24 12:46	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X414218	NMS	04/15/24 12:46	
EPA 200.7	**Copper**	0.0546	mg/L	0.0100	0.0027		X414218	NMS	04/15/24 12:46	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X414218	NMS	04/15/24 12:46	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X414218	NMS	04/15/24 12:46	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X414218	NMS	04/15/24 12:46	
EPA 200.7	**Magnesium**	7.21	mg/L	0.500	0.090		X414218	NMS	04/15/24 12:46	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X414218	NMS	04/15/24 12:46	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X414218	NMS	04/15/24 12:46	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X414218	NMS	04/15/24 12:46	
EPA 200.7	**Potassium**	15.1	mg/L	0.50	0.18		X414218	NMS	04/15/24 12:46	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X414218	NMS	04/15/24 12:46	
EPA 200.7	**Sodium**	25.1	mg/L	0.50	0.12		X414218	NMS	04/15/24 12:46	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X414218	NMS	04/15/24 12:46	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X414218	NMS	04/15/24 12:46	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X413185	SMU	04/03/24 18:41	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X413185	SMU	04/03/24 18:41	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X413185	SMU	04/03/24 18:41	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X413185	SMU	04/03/24 18:41	
EPA 200.8	**Uranium**	0.00297	mg/L	0.000100	0.000052		X413185	SMU	04/03/24 18:41	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X414128	MAC	04/08/24 14:40	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @21.0°C	< 0.0050	mg/L	0.0050	0.0048		X414018	DD	04/03/24 12:07	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X414065	DD	04/03/24 12:56	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X414167	DD	04/05/24 11:16	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X414022	DD	04/03/24 14:17	
SM 2310 B	**Acidity to pH 8.3**	-48.1	mg/L as CaCO3	10.0			X414014	MWD	04/03/24 08:55	
SM 2320 B	**Total Alkalinity**	40.9	mg/L as CaCO3	1.0			X413200	MWD	03/29/24 13:10	
SM 2320 B	**Bicarbonate**	40.9	mg/L as CaCO3	1.0			X413200	MWD	03/29/24 13:10	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X413200	MWD	03/29/24 13:10	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X413200	MWD	03/29/24 13:10	
SM 2540 C	**Total Diss. Solids**	320	mg/L	10			X413210	TJL	04/01/24 13:40	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X413211	TJL	04/01/24 15:00	
SM 4500 H B	**pH @18.8°C**	6.7	pH Units				X413200	MWD	03/29/24 13:10	H5

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0456**
Reported: 15-Apr-24 14:40

Client Sample ID: **GVMW-8B**
SVL Sample ID: **X4C0456-01 (Ground Water)**

Sampled: 27-Mar-24 09:45
Received: 28-Mar-24
Sampled By: BD

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	47.6	mg/L	2.00	0.22	10	X413145	KAG	03/28/24 15:18	D2
EPA 300.0	**Fluoride**	2.14	mg/L	0.100	0.017		X413145	KAG	03/28/24 15:00	
EPA 300.0	**Nitrate as N**	2.03	mg/L	0.050	0.013		X413145	KAG	03/28/24 15:00	
EPA 300.0	**Nitrate+Nitrite as N**	2.03	mg/L	0.100	0.044		X413145	KAG	03/28/24 15:00	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X413145	KAG	03/28/24 15:00	
EPA 300.0	**Sulfate as SO4**	91.0	mg/L	3.00	1.80	10	X413145	KAG	03/28/24 15:18	D2
Cation/Anion Balance and TDS Ratios										

Cation Sum: 4.29 meq/L Anion Sum: 4.31 meq/L C/A Balance: -0.30 % Calculated TDS: 266 TDS/cTDS: 1.20

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

Kathryn Salter
Project Manager

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0456**
Reported: 15-Apr-24 14:40

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X414174	08-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X414174	08-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X414174	08-Apr-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X414218	08-Apr-24	
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X414218	15-Apr-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X414218	08-Apr-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X414218	15-Apr-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X414218	08-Apr-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X414218	15-Apr-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X414218	08-Apr-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X414218	15-Apr-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X414218	08-Apr-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X414218	15-Apr-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X414218	08-Apr-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X414218	15-Apr-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X414218	08-Apr-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X414218	15-Apr-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X414218	08-Apr-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X414218	15-Apr-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X414218	08-Apr-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X414218	15-Apr-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X414218	08-Apr-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X414218	15-Apr-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X414218	08-Apr-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X414218	15-Apr-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X414218	08-Apr-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X414218	15-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X414218	08-Apr-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X414218	15-Apr-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X414218	08-Apr-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X414218	15-Apr-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X414218	08-Apr-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X414218	15-Apr-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X414218	08-Apr-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X414218	15-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X414218	08-Apr-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X414218	15-Apr-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X414218	08-Apr-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X414218	15-Apr-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X414218	08-Apr-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X414218	15-Apr-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X414218	08-Apr-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X414218	15-Apr-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X414218	08-Apr-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X414218	15-Apr-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X413185	03-Apr-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X413185	03-Apr-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X413185	03-Apr-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X413185	03-Apr-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X413185	03-Apr-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X414128	08-Apr-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0456**
Reported: 15-Apr-24 14:40

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	X414018	03-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X414065	03-Apr-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X414167	05-Apr-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X414167	12-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X414022	03-Apr-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X414014	03-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X413200	29-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X413200	29-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X413200	29-Mar-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X413200	29-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X413210	01-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X413211	01-Apr-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X413145	28-Mar-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X413145	28-Mar-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X413145	28-Mar-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X413145	28-Mar-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X413145	28-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X413145	28-Mar-24	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	18.8	20.0	94	85 - 115	X414174	08-Apr-24	
EPA 200.7	Magnesium	mg/L	20.6	20.0	103	85 - 115	X414174	08-Apr-24	
EPA 200.7	Potassium	mg/L	19.1	20.0	95.4	85 - 115	X414174	08-Apr-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.979	1.00	97.9	85 - 115	X414218	08-Apr-24	
EPA 200.7	Aluminum	mg/L	0.939	1.00	93.9	85 - 115	X414218	15-Apr-24	
EPA 200.7	Barium	mg/L	0.989	1.00	98.9	85 - 115	X414218	08-Apr-24	
EPA 200.7	Barium	mg/L	0.959	1.00	95.9	85 - 115	X414218	15-Apr-24	
EPA 200.7	Beryllium	mg/L	0.960	1.00	96.0	85 - 115	X414218	08-Apr-24	
EPA 200.7	Beryllium	mg/L	0.992	1.00	99.2	85 - 115	X414218	15-Apr-24	
EPA 200.7	Boron	mg/L	0.902	1.00	90.2	85 - 115	X414218	08-Apr-24	
EPA 200.7	Boron	mg/L	0.950	1.00	95.0	85 - 115	X414218	15-Apr-24	
EPA 200.7	Cadmium	mg/L	0.916	1.00	91.6	85 - 115	X414218	08-Apr-24	
EPA 200.7	Cadmium	mg/L	0.945	1.00	94.5	85 - 115	X414218	15-Apr-24	
EPA 200.7	Calcium	mg/L	18.8	20.0	94.1	85 - 115	X414218	08-Apr-24	
EPA 200.7	Calcium	mg/L	19.7	20.0	98.5	85 - 115	X414218	15-Apr-24	
EPA 200.7	Chromium	mg/L	0.905	1.00	90.5	85 - 115	X414218	08-Apr-24	
EPA 200.7	Chromium	mg/L	0.951	1.00	95.1	85 - 115	X414218	15-Apr-24	
EPA 200.7	Cobalt	mg/L	0.919	1.00	91.9	85 - 115	X414218	08-Apr-24	
EPA 200.7	Cobalt	mg/L	0.930	1.00	93.0	85 - 115	X414218	15-Apr-24	
EPA 200.7	Copper	mg/L	0.873	1.00	87.3	85 - 115	X414218	08-Apr-24	
EPA 200.7	Copper	mg/L	0.953	1.00	95.3	85 - 115	X414218	15-Apr-24	
EPA 200.7	Iron	mg/L	9.49	10.0	94.9	85 - 115	X414218	08-Apr-24	
EPA 200.7	Iron	mg/L	9.99	10.0	99.9	85 - 115	X414218	15-Apr-24	
EPA 200.7	Lead	mg/L	0.919	1.00	91.9	85 - 115	X414218	08-Apr-24	
EPA 200.7	Lead	mg/L	0.946	1.00	94.6	85 - 115	X414218	15-Apr-24	
EPA 200.7	Lithium	mg/L	0.949	1.00	94.9	85 - 115	X414218	08-Apr-24	
EPA 200.7	Lithium	mg/L	0.940	1.00	94.0	85 - 115	X414218	15-Apr-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0456**
Reported: 15-Apr-24 14:40

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	Magnesium	mg/L	19.8	20.0	99.0	85 - 115	X414218	08-Apr-24	
EPA 200.7	Magnesium	mg/L	19.5	20.0	97.6	85 - 115	X414218	15-Apr-24	
EPA 200.7	Manganese	mg/L	0.988	1.00	98.8	85 - 115	X414218	08-Apr-24	
EPA 200.7	Manganese	mg/L	0.951	1.00	95.1	85 - 115	X414218	15-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.907	1.00	90.7	85 - 115	X414218	08-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.959	1.00	95.9	85 - 115	X414218	15-Apr-24	
EPA 200.7	Nickel	mg/L	0.924	1.00	92.4	85 - 115	X414218	08-Apr-24	
EPA 200.7	Nickel	mg/L	0.935	1.00	93.5	85 - 115	X414218	15-Apr-24	
EPA 200.7	Potassium	mg/L	19.1	20.0	95.6	85 - 115	X414218	08-Apr-24	
EPA 200.7	Potassium	mg/L	19.9	20.0	99.3	85 - 115	X414218	15-Apr-24	
EPA 200.7	Silver	mg/L	0.0533	0.0500	107	85 - 115	X414218	08-Apr-24	
EPA 200.7	Silver	mg/L	0.0552	0.0500	110	85 - 115	X414218	15-Apr-24	
EPA 200.7	Sodium	mg/L	18.5	19.0	97.2	85 - 115	X414218	08-Apr-24	
EPA 200.7	Sodium	mg/L	18.8	19.0	98.9	85 - 115	X414218	15-Apr-24	
EPA 200.7	Vanadium	mg/L	0.873	1.00	87.3	85 - 115	X414218	08-Apr-24	
EPA 200.7	Vanadium	mg/L	0.964	1.00	96.4	85 - 115	X414218	15-Apr-24	
EPA 200.7	Zinc	mg/L	0.924	1.00	92.4	85 - 115	X414218	08-Apr-24	
EPA 200.7	Zinc	mg/L	0.944	1.00	94.4	85 - 115	X414218	15-Apr-24	
EPA 200.8	Antimony	mg/L	0.0267	0.0250	107	85 - 115	X413185	03-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0254	0.0250	101	85 - 115	X413185	03-Apr-24	
EPA 200.8	Selenium	mg/L	0.0266	0.0250	107	85 - 115	X413185	03-Apr-24	
EPA 200.8	Thallium	mg/L	0.0246	0.0250	98.3	85 - 115	X413185	03-Apr-24	
EPA 200.8	Uranium	mg/L	0.0243	0.0250	97.0	85 - 115	X413185	03-Apr-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00197	0.00200	98.5	85 - 115	X414128	08-Apr-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.109	0.100	109	90 - 110	X414018	03-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X414065	03-Apr-24	
EPA 350.1	Ammonia as N	mg/L	0.986	1.00	98.6	90 - 110	X414167	05-Apr-24	
EPA 350.1	Ammonia as N	mg/L	0.994	1.00	99.4	90 - 110	X414167	12-Apr-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0990	0.100	99.0	90 - 110	X414022	03-Apr-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1630	1640	99.2	95.4 - 104	X414014	03-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	96.4 - 105	X413200	29-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	402	397	101	96.4 - 105	X413200	29-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X413211	01-Apr-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.95	3.00	98.4	90 - 110	X413145	28-Mar-24	
EPA 300.0	Fluoride	mg/L	1.95	2.00	97.6	90 - 110	X413145	28-Mar-24	
EPA 300.0	Nitrate as N	mg/L	1.95	2.00	97.7	90 - 110	X413145	28-Mar-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.44	4.50	98.7	90 - 110	X413145	28-Mar-24	
EPA 300.0	Nitrite as N	mg/L	2.49	2.50	99.4	90 - 110	X413145	28-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X413145	28-Mar-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0456**
Reported: 15-Apr-24 14:40

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	2130	2120	0.7	20	X414014 - X4C0359-06	03-Apr-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	40.8	40.9	0.2	20	X413200 - X4C0456-01	29-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	40.8	40.9	0.2	20	X413200 - X4C0456-01	29-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X413200 - X4C0456-01	29-Mar-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X413200 - X4C0456-01	29-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	251	253	0.8	10	X413210 - X4C0450-02	01-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X413211 - X4C0450-02	01-Apr-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X413211 - X4C0462-07	01-Apr-24	
SM 4500 H B	pH @18.8°C	pH Units	6.6	6.7	1.2	20	X413200 - X4C0456-01	29-Mar-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	350	318	20.0	0.30R>S	70 - 130	X414174 - X4C0431-01	08-Apr-24	M3
EPA 200.7	Calcium	mg/L	483	458	20.0	126	70 - 130	X414174 - X4C0459-02	09-Apr-24	D2
EPA 200.7	Magnesium	mg/L	79.1	55.3	20.0	119	70 - 130	X414174 - X4C0431-01	08-Apr-24	
EPA 200.7	Magnesium	mg/L	62.0	36.0	20.0	130	70 - 130	X414174 - X4C0459-02	08-Apr-24	
EPA 200.7	Potassium	mg/L	22.9	2.55	20.0	102	70 - 130	X414174 - X4C0431-01	08-Apr-24	
EPA 200.7	Potassium	mg/L	26.7	5.47	20.0	106	70 - 130	X414174 - X4C0459-02	08-Apr-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.06	<0.080	1.00	106	70 - 130	X414218 - X4C0456-01	08-Apr-24	
EPA 200.7	Barium	mg/L	1.03	0.0069	1.00	103	70 - 130	X414218 - X4C0456-01	08-Apr-24	
EPA 200.7	Beryllium	mg/L	0.989	<0.00200	1.00	98.8	70 - 130	X414218 - X4C0456-01	08-Apr-24	
EPA 200.7	Boron	mg/L	0.962	<0.0400	1.00	94.6	70 - 130	X414218 - X4C0456-01	08-Apr-24	
EPA 200.7	Cadmium	mg/L	0.963	<0.0020	1.00	96.3	70 - 130	X414218 - X4C0456-01	08-Apr-24	
EPA 200.7	Calcium	mg/L	63.0	44.2	20.0	93.5	70 - 130	X414218 - X4C0456-01	08-Apr-24	
EPA 200.7	Chromium	mg/L	0.943	<0.0060	1.00	94.3	70 - 130	X414218 - X4C0456-01	08-Apr-24	
EPA 200.7	Cobalt	mg/L	0.949	<0.0060	1.00	94.9	70 - 130	X414218 - X4C0456-01	08-Apr-24	
EPA 200.7	Copper	mg/L	0.953	0.0462	1.00	90.7	70 - 130	X414218 - X4C0456-01	08-Apr-24	
EPA 200.7	Iron	mg/L	9.87	<0.100	10.0	98.7	70 - 130	X414218 - X4C0456-01	08-Apr-24	
EPA 200.7	Lead	mg/L	0.945	<0.0075	1.00	94.5	70 - 130	X414218 - X4C0456-01	08-Apr-24	
EPA 200.7	Lithium	mg/L	0.986	<0.040	1.00	98.6	70 - 130	X414218 - X4C0456-01	08-Apr-24	
EPA 200.7	Magnesium	mg/L	27.8	7.40	20.0	102	70 - 130	X414218 - X4C0456-01	08-Apr-24	
EPA 200.7	Manganese	mg/L	1.03	<0.0080	1.00	102	70 - 130	X414218 - X4C0456-01	08-Apr-24	
EPA 200.7	Molybdenum	mg/L	0.935	<0.0080	1.00	93.5	70 - 130	X414218 - X4C0456-01	08-Apr-24	
EPA 200.7	Nickel	mg/L	0.952	<0.0100	1.00	95.2	70 - 130	X414218 - X4C0456-01	08-Apr-24	
EPA 200.7	Potassium	mg/L	72.9	53.5	20.0	96.9	70 - 130	X414218 - X4C0456-01	08-Apr-24	
EPA 200.7	Silver	mg/L	0.0568	<0.0050	0.0500	114	70 - 130	X414218 - X4C0456-01	08-Apr-24	
EPA 200.7	Sodium	mg/L	44.5	25.4	19.0	100	70 - 130	X414218 - X4C0456-01	08-Apr-24	
EPA 200.7	Vanadium	mg/L	0.913	<0.0050	1.00	91.3	70 - 130	X414218 - X4C0456-01	08-Apr-24	
EPA 200.7	Zinc	mg/L	0.973	<0.0100	1.00	97.3	70 - 130	X414218 - X4C0456-01	08-Apr-24	
EPA 200.8	Antimony	mg/L	0.0273	0.00150	0.0250	103	70 - 130	X413185 - X4C0364-01	03-Apr-24	
EPA 200.8	Antimony	mg/L	0.0266	<0.00100	0.0250	106	70 - 130	X413185 - X4C0454-01	03-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0262	<0.00100	0.0250	103	70 - 130	X413185 - X4C0364-01	03-Apr-24	
EPA 200.8	Arsenic	mg/L	0.0247	<0.00100	0.0250	95.3	70 - 130	X413185 - X4C0454-01	03-Apr-24	
EPA 200.8	Selenium	mg/L	0.0258	0.00115	0.0250	98.6	70 - 130	X413185 - X4C0364-01	03-Apr-24	
EPA 200.8	Selenium	mg/L	0.0228	<0.00100	0.0250	91.2	70 - 130	X413185 - X4C0454-01	03-Apr-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0456**
Reported: 15-Apr-24 14:40

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 200.8	Thallium	mg/L	0.0236	<0.000200	0.0250	93.8	70 - 130	X413185 - X4C0364-01	03-Apr-24	
EPA 200.8	Thallium	mg/L	0.0234	<0.000200	0.0250	93.1	70 - 130	X413185 - X4C0454-01	03-Apr-24	
EPA 200.8	Uranium	mg/L	0.0249	0.000982	0.0250	95.6	70 - 130	X413185 - X4C0364-01	03-Apr-24	
EPA 200.8	Uranium	mg/L	0.0389	0.0152	0.0250	94.9	70 - 130	X413185 - X4C0454-01	03-Apr-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00192	<0.000200	0.00200	96.0	70 - 130	X414128 - X4C0429-01	08-Apr-24	
EPA 245.1	Mercury	mg/L	0.00201	<0.000200	0.00200	101	70 - 130	X414128 - X4C0465-01	08-Apr-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.117	<0.0050	0.100	117	79 - 121	X414018 - X4C0342-01	03-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.119	0.0134	0.100	106	90 - 110	X414065 - X4C0462-05	03-Apr-24	
EPA 335.4	Cyanide (total)	mg/L	0.117	0.0109	0.100	106	90 - 110	X414065 - X4C0462-03	03-Apr-24	
EPA 350.1	Ammonia as N	mg/L	1.43	0.280	1.00	115	90 - 110	X414167 - X4C0483-01	05-Apr-24	M1
EPA 350.1	Ammonia as N	mg/L	2.06	1.48	1.00	58.0	90 - 110	X414167 - X4C0483-03	12-Apr-24	D2,M4
OIA 1677	Cyanide (WAD)	mg/L	0.101	<0.0050	0.100	99.0	82 - 118	X414022 - X4C0342-01	03-Apr-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	12.3	9.83	3.00	81.2	90 - 110	X413145 - X4C0450-02	28-Mar-24	D2,M4
EPA 300.0	Fluoride	mg/L	2.08	0.220	2.00	93.0	90 - 110	X413145 - X4C0450-02	28-Mar-24	
EPA 300.0	Nitrate as N	mg/L	2.48	0.567	2.00	95.5	90 - 110	X413145 - X4C0450-02	28-Mar-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.48	0.578	4.00	97.5	90 - 110	X413145 - X4C0450-02	28-Mar-24	
EPA 300.0	Nitrite as N	mg/L	2.00	<0.050	2.00	100	90 - 110	X413145 - X4C0450-02	28-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	39.2	29.5	10.0	96.8	90 - 110	X413145 - X4C0450-02	28-Mar-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	340	350	20.0	3.0	20	113	X414174 - X4C0431-01	
EPA 200.7	Magnesium	mg/L	76.1	79.1	20.0	3.8	20	104	X414174 - X4C0431-01	
EPA 200.7	Potassium	mg/L	22.5	22.9	20.0	1.8	20	99.6	X414174 - X4C0431-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.05	1.06	1.00	0.2	20	105	X414218 - X4C0456-01	
EPA 200.7	Barium	mg/L	1.05	1.03	1.00	1.2	20	104	X414218 - X4C0456-01	
EPA 200.7	Beryllium	mg/L	1.01	0.989	1.00	2.0	20	101	X414218 - X4C0456-01	
EPA 200.7	Boron	mg/L	0.973	0.962	1.00	1.2	20	95.8	X414218 - X4C0456-01	
EPA 200.7	Cadmium	mg/L	0.980	0.963	1.00	1.7	20	98.0	X414218 - X4C0456-01	
EPA 200.7	Calcium	mg/L	64.3	63.0	20.0	2.2	20	100	X414218 - X4C0456-01	
EPA 200.7	Chromium	mg/L	0.968	0.943	1.00	2.6	20	96.8	X414218 - X4C0456-01	
EPA 200.7	Cobalt	mg/L	0.967	0.949	1.00	1.9	20	96.7	X414218 - X4C0456-01	
EPA 200.7	Copper	mg/L	0.979	0.953	1.00	2.7	20	93.3	X414218 - X4C0456-01	
EPA 200.7	Iron	mg/L	10.1	9.87	10.0	2.5	20	101	X414218 - X4C0456-01	
EPA 200.7	Lead	mg/L	0.961	0.945	1.00	1.7	20	96.1	X414218 - X4C0456-01	
EPA 200.7	Lithium	mg/L	1.01	0.986	1.00	2.0	20	101	X414218 - X4C0456-01	
EPA 200.7	Magnesium	mg/L	28.4	27.8	20.0	2.0	20	105	X414218 - X4C0456-01	
EPA 200.7	Manganese	mg/L	1.05	1.03	1.00	1.8	20	104	X414218 - X4C0456-01	
EPA 200.7	Molybdenum	mg/L	0.951	0.935	1.00	1.7	20	95.1	X414218 - X4C0456-01	
EPA 200.7	Nickel	mg/L	0.969	0.952	1.00	1.8	20	96.9	X414218 - X4C0456-01	
EPA 200.7	Potassium	mg/L	74.7	72.9	20.0	2.4	20	106	X414218 - X4C0456-01	
EPA 200.7	Silver	mg/L	0.0582	0.0568	0.0500	2.4	20	116	X414218 - X4C0456-01	

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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: **X4C0456**
Reported: 15-Apr-24 14:40

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) (Continued)										
EPA 200.7	Sodium	mg/L	45.1	44.5	19.0	1.4	20	103	X414218 - X4C0456-01	
EPA 200.7	Vanadium	mg/L	0.938	0.913	1.00	2.7	20	93.8	X414218 - X4C0456-01	
EPA 200.7	Zinc	mg/L	0.991	0.973	1.00	1.9	20	99.1	X414218 - X4C0456-01	
EPA 200.8	Antimony	mg/L	0.0274	0.0273	0.0250	0.7	20	104	X413185 - X4C0364-01	
EPA 200.8	Arsenic	mg/L	0.0249	0.0262	0.0250	5.1	20	97.5	X413185 - X4C0364-01	
EPA 200.8	Selenium	mg/L	0.0259	0.0258	0.0250	0.5	20	99.0	X413185 - X4C0364-01	
EPA 200.8	Thallium	mg/L	0.0233	0.0236	0.0250	1.3	20	92.6	X413185 - X4C0364-01	
EPA 200.8	Uranium	mg/L	0.0245	0.0249	0.0250	1.7	20	93.9	X413185 - X4C0364-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00205	0.00192	0.00200	6.6	20	103	X414128 - X4C0429-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.127	0.117	0.100	8.2	11	127	X414018 - X4C0342-01	M1
EPA 335.4	Cyanide (total)	mg/L	0.122	0.119	0.100	2.3	20	109	X414065 - X4C0462-05	
EPA 350.1	Ammonia as N	mg/L	1.30	1.43	1.00	9.4	20	102	X414167 - X4C0483-01	
OIA 1677	Cyanide (WAD)	mg/L	0.0960	0.101	0.100	5.1	11	94.0	X414022 - X4C0342-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	12.4	12.3	3.00	1.3	20	86.7	X413145 - X4C0450-02	D2,M4
EPA 300.0	Fluoride	mg/L	2.14	2.08	2.00	2.9	20	96.1	X413145 - X4C0450-02	
EPA 300.0	Nitrate as N	mg/L	2.54	2.48	2.00	2.5	20	98.7	X413145 - X4C0450-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.60	4.48	4.00	2.8	20	101	X413145 - X4C0450-02	
EPA 300.0	Nitrite as N	mg/L	2.06	2.00	2.00	3.1	20	103	X413145 - X4C0450-02	
EPA 300.0	Sulfate as SO4	mg/L	39.4	39.2	10.0	0.5	20	98.6	X413145 - X4C0450-02	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4C0456**
Victor, CO 80860	Reported: 15-Apr-24 14:40

Notes and Definitions

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

Newmont
NORTH AMERICA

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QA/QC

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

Work Order: **X4A0166**
Reported: 25-Jan-24 12:56

Client Sample ID: **WCMW-103**
SVL Sample ID: **X4A0166-02 (Ground Water)**

Sampled: 10-Jan-24 14:27
Received: 11-Jan-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	60.6	mg/L	0.100	0.069		X403057	SMU	01/23/24 16:26	
EPA 200.7	**Magnesium**	14.5	mg/L	0.500	0.090		X403057	SMU	01/23/24 16:26	
EPA 200.7	**Potassium**	1.58	mg/L	0.50	0.18		X403057	SMU	01/23/24 16:26	
sm 2340B	**Hardness (as CaCO3)**	216	mg/L	2.31	0.543		N/A		01/23/24 16:26	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X404014	JRR	01/24/24 12:21	
EPA 200.7	**Barium**	0.0647	mg/L	0.0020	0.0019		X404014	JRR	01/24/24 12:21	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X404014	JRR	01/24/24 12:21	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X404014	JRR	01/24/24 12:21	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X404014	JRR	01/24/24 12:21	
EPA 200.7	**Calcium**	61.4	mg/L	0.100	0.069		X404014	JRR	01/24/24 12:21	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X404014	JRR	01/24/24 12:21	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X404014	JRR	01/24/24 12:21	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X404014	JRR	01/24/24 12:21	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X404014	JRR	01/24/24 12:21	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X404014	JRR	01/24/24 12:21	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X404014	JRR	01/24/24 12:21	
EPA 200.7	**Magnesium**	15.4	mg/L	0.500	0.090		X404014	JRR	01/24/24 12:21	
EPA 200.7	**Manganese**	0.0483	mg/L	0.0080	0.0034		X404014	JRR	01/24/24 12:21	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X404014	JRR	01/24/24 12:21	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X404014	JRR	01/24/24 12:21	
EPA 200.7	**Potassium**	1.60	mg/L	0.50	0.18		X404014	JRR	01/24/24 12:21	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X404014	JRR	01/24/24 12:21	
EPA 200.7	**Sodium**	10.7	mg/L	0.50	0.12		X404014	JRR	01/24/24 12:21	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X404014	JRR	01/24/24 12:21	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X404014	JRR	01/24/24 12:21	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X403180	SMU	01/24/24 13:53	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X403180	SMU	01/24/24 13:53	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X403180	SMU	01/24/24 13:53	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X403180	SMU	01/24/24 13:53	
EPA 200.8	**Uranium**	0.00626	mg/L	0.000100	0.000052		X403180	SMU	01/24/24 14:35	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X403062	MAC	01/22/24 14:07	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @20.0°C	< 0.0050	mg/L	0.0050	0.0048		X403129	DD	01/19/24 13:20	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X403028	DD	01/17/24 10:22	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X403020	DD	01/16/24 14:28	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X403005	DD	01/22/24 15:32	
SM 2310 B	**Acidity to pH 8.3**	-217	mg/L as CaCO3	10.0			X403136	MWD	01/19/24 10:43	
SM 2320 B	**Total Alkalinity**	211	mg/L as CaCO3	1.0			X402165	MWD	01/12/24 13:36	
SM 2320 B	**Bicarbonate**	211	mg/L as CaCO3	1.0			X402165	MWD	01/12/24 13:36	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X402165	MWD	01/12/24 13:36	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X402165	MWD	01/12/24 13:36	
SM 2540 C	**Total Diss. Solids**	224	mg/L	10			X402161	TJL	01/15/24 13:55	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X402162	TJL	01/15/24 14:30	
SM 4500 H B	**pH @18.3°C**	7.7	pH Units				X402165	MWD	01/12/24 13:36	H5

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

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Work Order: **X4A0166**
Reported: 25-Jan-24 12:56

Client Sample ID: **WCMW-103**
SVL Sample ID: **X4A0166-02 (Ground Water)**

Sampled: 10-Jan-24 14:27
Received: 11-Jan-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.05	mg/L	0.20	0.02		X402151	RS	01/11/24 16:19	
EPA 300.0	**Fluoride**	0.759	mg/L	0.100	0.017		X402151	RS	01/11/24 16:19	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X402151	RS	01/11/24 16:19	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X402151	RS	01/11/24 16:19	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X402151	RS	01/11/24 16:19	
EPA 300.0	**Sulfate as SO4**	24.7	mg/L	0.30	0.18		X402151	RS	01/11/24 16:19	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.74 meq/L Anion Sum: 4.80 meq/L C/A Balance: -0.67 % Calculated TDS: 241 TDS/cTDS: 0.93

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

Kathryn Salter
Project Manager

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Work Order: **X4A0166**
Reported: 25-Jan-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	X403057	23-Jan-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X403057	23-Jan-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X403057	23-Jan-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X404014	24-Jan-24	
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X404014	24-Jan-24	
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X404014	24-Jan-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X404014	24-Jan-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X404014	24-Jan-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X404014	24-Jan-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X404014	24-Jan-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X404014	24-Jan-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X404014	24-Jan-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X404014	24-Jan-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X404014	24-Jan-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X404014	24-Jan-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X404014	24-Jan-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X404014	24-Jan-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X404014	24-Jan-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X404014	24-Jan-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X404014	24-Jan-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X404014	24-Jan-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X404014	24-Jan-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X404014	24-Jan-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X404014	24-Jan-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X404014	24-Jan-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X404014	24-Jan-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X404014	24-Jan-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X404014	24-Jan-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X404014	24-Jan-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X404014	24-Jan-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X404014	24-Jan-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X404014	24-Jan-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X404014	24-Jan-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X404014	24-Jan-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X404014	24-Jan-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X404014	24-Jan-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X404014	24-Jan-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X404014	24-Jan-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X404014	24-Jan-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X404014	24-Jan-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X404014	24-Jan-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X404014	24-Jan-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X404014	24-Jan-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X404014	24-Jan-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X404014	24-Jan-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X404014	24-Jan-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X404014	24-Jan-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X404014	24-Jan-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X404014	24-Jan-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X404014	24-Jan-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X404014	24-Jan-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X404014	24-Jan-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X404014	24-Jan-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X404014	24-Jan-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X404014	24-Jan-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X404014	24-Jan-24	

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Work Order: **X4A0166**
Reported: 25-Jan-24 12:56

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Dissolved) (Continued)								
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X404014	24-Jan-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X404014	24-Jan-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X404014	24-Jan-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X404014	24-Jan-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X404014	24-Jan-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X404014	24-Jan-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X404014	24-Jan-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X404014	24-Jan-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X404014	24-Jan-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X404014	24-Jan-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X403180	24-Jan-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X403180	24-Jan-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X403180	24-Jan-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X403180	24-Jan-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X403180	24-Jan-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X403062	22-Jan-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X403129	19-Jan-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X403028	17-Jan-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X403020	16-Jan-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X403020	16-Jan-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X403020	16-Jan-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X403020	16-Jan-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X403020	16-Jan-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X403020	16-Jan-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X403020	16-Jan-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X403005	22-Jan-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X403136	19-Jan-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X402165	12-Jan-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X402165	12-Jan-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X402165	12-Jan-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X402165	12-Jan-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X402161	15-Jan-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X402162	15-Jan-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X402151	11-Jan-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X402151	11-Jan-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X402151	11-Jan-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X402151	11-Jan-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X402151	11-Jan-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X402151	11-Jan-24	

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Work Order: **X4A0166**
Reported: 25-Jan-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	19.7	20.0	99	85 - 115	X403057	23-Jan-24	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.4	85 - 115	X403057	23-Jan-24	
EPA 200.7	Potassium	mg/L	19.8	20.0	98.8	85 - 115	X403057	23-Jan-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	1.01	1.00	101	85 - 115	X404014	24-Jan-24	
EPA 200.7	Barium	mg/L	1.02	1.00	102	85 - 115	X404014	24-Jan-24	
EPA 200.7	Beryllium	mg/L	0.989	1.00	98.9	85 - 115	X404014	24-Jan-24	
EPA 200.7	Boron	mg/L	0.991	1.00	99.1	85 - 115	X404014	24-Jan-24	
EPA 200.7	Cadmium	mg/L	1.02	1.00	102	85 - 115	X404014	24-Jan-24	
EPA 200.7	Calcium	mg/L	20.4	20.0	102	85 - 115	X404014	24-Jan-24	
EPA 200.7	Chromium	mg/L	1.00	1.00	100	85 - 115	X404014	24-Jan-24	
EPA 200.7	Cobalt	mg/L	0.993	1.00	99.3	85 - 115	X404014	24-Jan-24	
EPA 200.7	Copper	mg/L	0.985	1.00	98.5	85 - 115	X404014	24-Jan-24	
EPA 200.7	Iron	mg/L	10.3	10.0	103	85 - 115	X404014	24-Jan-24	
EPA 200.7	Lead	mg/L	1.01	1.00	101	85 - 115	X404014	24-Jan-24	
EPA 200.7	Lithium	mg/L	0.988	1.00	98.8	85 - 115	X404014	24-Jan-24	
EPA 200.7	Magnesium	mg/L	20.5	20.0	102	85 - 115	X404014	24-Jan-24	
EPA 200.7	Manganese	mg/L	1.00	1.00	100	85 - 115	X404014	24-Jan-24	
EPA 200.7	Molybdenum	mg/L	0.976	1.00	97.6	85 - 115	X404014	24-Jan-24	
EPA 200.7	Nickel	mg/L	0.996	1.00	99.6	85 - 115	X404014	24-Jan-24	
EPA 200.7	Potassium	mg/L	20.4	20.0	102	85 - 115	X404014	24-Jan-24	
EPA 200.7	Silver	mg/L	0.0507	0.0500	101	85 - 115	X404014	24-Jan-24	
EPA 200.7	Sodium	mg/L	19.2	19.0	101	85 - 115	X404014	24-Jan-24	
EPA 200.7	Vanadium	mg/L	0.992	1.00	99.2	85 - 115	X404014	24-Jan-24	
EPA 200.7	Zinc	mg/L	1.02	1.00	102	85 - 115	X404014	24-Jan-24	
EPA 200.8	Antimony	mg/L	0.0232	0.0250	92.9	85 - 115	X403180	24-Jan-24	
EPA 200.8	Arsenic	mg/L	0.0233	0.0250	93.0	85 - 115	X403180	24-Jan-24	
EPA 200.8	Selenium	mg/L	0.0234	0.0250	93.7	85 - 115	X403180	24-Jan-24	
EPA 200.8	Thallium	mg/L	0.0233	0.0250	93.3	85 - 115	X403180	24-Jan-24	
EPA 200.8	Uranium	mg/L	0.0226	0.0250	90.5	85 - 115	X403180	24-Jan-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00199	0.00200	99.7	85 - 115	X403062	22-Jan-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.110	0.100	110	90 - 110	X403129	19-Jan-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X403028	17-Jan-24	
EPA 350.1	Ammonia as N	mg/L	0.915	1.00	91.5	90 - 110	X403020	16-Jan-24	
EPA 350.1	Ammonia as N	mg/L	0.925	1.00	92.5	90 - 110	X403020	16-Jan-24	
EPA 350.1	Ammonia as N	mg/L	0.924	1.00	92.4	90 - 110	X403020	16-Jan-24	
EPA 350.1	Ammonia as N	mg/L	0.949	1.00	94.9	90 - 110	X403020	16-Jan-24	
OIA 1677	Cyanide (WAD)	mg/L	0.100	0.100	100	90 - 110	X403005	22-Jan-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1580	1640	96.6	95.4 - 104	X403136	19-Jan-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.70	9.93	97.7	96.4 - 105	X402165	12-Jan-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	98.5	99.3	99.2	96.4 - 105	X402165	12-Jan-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	396	397	99.6	96.4 - 105	X402165	12-Jan-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X402162	15-Jan-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.99	3.00	99.7	90 - 110	X402151	11-Jan-24	
EPA 300.0	Fluoride	mg/L	2.02	2.00	101	90 - 110	X402151	11-Jan-24	
EPA 300.0	Nitrate as N	mg/L	2.03	2.00	101	90 - 110	X402151	11-Jan-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.57	4.50	102	90 - 110	X402151	11-Jan-24	
EPA 300.0	Nitrite as N	mg/L	2.54	2.50	102	90 - 110	X402151	11-Jan-24	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.0	105	90 - 110	X402151	11-Jan-24	

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Work Order: **X4A0166**
Reported: 25-Jan-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 CaCO3	<10.0	<10.0	UDL	20	X403136 - X4A0148-01	19-Jan-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	71.7	71.9	0.3	20	X402165 - X4A0162-02	12-Jan-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	71.7	71.9	0.3	20	X402165 - X4A0162-02	12-Jan-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X402165 - X4A0162-02	12-Jan-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X402165 - X4A0162-02	12-Jan-24	
SM 2540 C	Total Diss. Solids	mg/L	190	202	6.1	10	X402161 - X4A0174-02	15-Jan-24	
SM 2540 C	Total Diss. Solids	mg/L	294	291	1.0	10	X402161 - X4A0162-02	15-Jan-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X402162 - X4A0162-02	15-Jan-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X402162 - X4A0174-02	15-Jan-24	
SM 4500 H B	pH @17.6°C	pH Units	7.6	7.6	0.4	20	X402165 - X4A0162-02	12-Jan-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	80.7	61.3	20.0	97	70 - 130	X403057 - X4A0166-01	23-Jan-24	
EPA 200.7	Calcium	mg/L	62.6	43.0	20.0	98	70 - 130	X403057 - X4A0179-01	23-Jan-24	
EPA 200.7	Magnesium	mg/L	34.0	14.5	20.0	97.7	70 - 130	X403057 - X4A0166-01	23-Jan-24	
EPA 200.7	Magnesium	mg/L	34.4	14.5	20.0	99.3	70 - 130	X403057 - X4A0179-01	23-Jan-24	
EPA 200.7	Potassium	mg/L	21.5	1.58	20.0	99.4	70 - 130	X403057 - X4A0166-01	23-Jan-24	
EPA 200.7	Potassium	mg/L	23.0	3.35	20.0	98.1	70 - 130	X403057 - X4A0179-01	23-Jan-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.05	<0.080	1.00	105	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Aluminum	mg/L	1.00	<0.080	1.00	100	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Barium	mg/L	1.06	<0.0020	1.00	106	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Barium	mg/L	1.08	0.0660	1.00	101	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Beryllium	mg/L	0.994	<0.00200	1.00	99.4	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Beryllium	mg/L	0.985	<0.00200	1.00	98.5	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Boron	mg/L	1.04	<0.0400	1.00	103	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Boron	mg/L	0.982	<0.0400	1.00	97.2	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Cadmium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Cadmium	mg/L	1.01	<0.0020	1.00	101	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Calcium	mg/L	69.4	48.0	20.0	107	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Calcium	mg/L	81.3	62.5	20.0	94.0	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Chromium	mg/L	1.01	<0.0060	1.00	101	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Chromium	mg/L	0.997	<0.0060	1.00	99.7	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Cobalt	mg/L	0.989	<0.0060	1.00	98.9	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Cobalt	mg/L	0.975	<0.0060	1.00	97.5	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Copper	mg/L	0.987	<0.0100	1.00	98.3	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Copper	mg/L	0.994	<0.0100	1.00	99.4	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Iron	mg/L	10.7	<0.100	10.0	107	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Iron	mg/L	10.3	0.100	10.0	102	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Lead	mg/L	1.00	<0.0075	1.00	100	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Lead	mg/L	0.991	<0.0075	1.00	99.1	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Lithium	mg/L	1.05	<0.040	1.00	105	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Lithium	mg/L	0.999	<0.040	1.00	99.9	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Magnesium	mg/L	27.2	6.31	20.0	104	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Magnesium	mg/L	35.2	15.7	20.0	97.8	70 - 130	X404014 - X4A0166-01	24-Jan-24	

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Work Order: **X4A0166**
Reported: 25-Jan-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	1.01	<0.0080	1.00	100	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Manganese	mg/L	1.04	0.0544	1.00	98.7	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Molybdenum	mg/L	0.980	<0.0080	1.00	98.0	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Molybdenum	mg/L	0.977	<0.0080	1.00	97.7	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Nickel	mg/L	0.989	<0.0100	1.00	98.9	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Nickel	mg/L	0.974	<0.0100	1.00	97.4	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Potassium	mg/L	22.1	0.80	20.0	107	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Potassium	mg/L	22.2	1.63	20.0	103	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Silver	mg/L	0.0530	<0.0050	0.0500	106	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Silver	mg/L	0.0507	<0.0050	0.0500	101	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Sodium	mg/L	43.9	23.8	19.0	106	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Sodium	mg/L	29.9	11.0	19.0	99.6	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Vanadium	mg/L	0.996	<0.0050	1.00	99.6	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Vanadium	mg/L	0.993	<0.0050	1.00	99.3	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Zinc	mg/L	1.03	<0.0100	1.00	103	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Zinc	mg/L	1.00	<0.0100	1.00	100	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.8	Antimony	mg/L	0.0249	<0.00100	0.0250	99.7	70 - 130	X403180 - X4A0257-01	24-Jan-24	
EPA 200.8	Antimony	mg/L	0.0287	<0.00500	0.0250	115	70 - 130	X403180 - X4A0148-01	25-Jan-24	D1
EPA 200.8	Arsenic	mg/L	0.0238	<0.00100	0.0250	95.1	70 - 130	X403180 - X4A0257-01	24-Jan-24	
EPA 200.8	Arsenic	mg/L	0.0294	<0.00500	0.0250	118	70 - 130	X403180 - X4A0148-01	25-Jan-24	D1
EPA 200.8	Selenium	mg/L	0.0234	<0.00100	0.0250	92.6	70 - 130	X403180 - X4A0257-01	24-Jan-24	
EPA 200.8	Selenium	mg/L	0.0299	<0.00500	0.0250	120	70 - 130	X403180 - X4A0148-01	25-Jan-24	D1
EPA 200.8	Thallium	mg/L	0.0225	<0.000200	0.0250	90.1	70 - 130	X403180 - X4A0257-01	24-Jan-24	
EPA 200.8	Thallium	mg/L	0.0286	<0.00100	0.0250	114	70 - 130	X403180 - X4A0148-01	25-Jan-24	D1
EPA 200.8	Uranium	mg/L	0.0297	0.00423	0.0250	102	70 - 130	X403180 - X4A0257-01	24-Jan-24	
EPA 200.8	Uranium	mg/L	0.0335	0.00345	0.0250	120	70 - 130	X403180 - X4A0148-01	25-Jan-24	D1
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00202	<0.000200	0.00200	101	70 - 130	X403062 - X4A0148-01	22-Jan-24	
EPA 245.1	Mercury	mg/L	0.00207	<0.000200	0.00200	103	70 - 130	X403062 - X4A0166-01	22-Jan-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.100	<0.0050	0.100	100	79 - 121	X403129 - X4A0062-01	19-Jan-24	R2B
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X403028 - X4A0148-01	17-Jan-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X403028 - X4A0148-02	17-Jan-24	
EPA 350.1	Ammonia as N	mg/L	0.950	<0.030	1.00	93.4	90 - 110	X403020 - X4A0166-01	16-Jan-24	
OIA 1677	Cyanide (WAD)	mg/L	0.100	<0.0050	0.100	97.0	82 - 118	X403005 - X4A0062-01	22-Jan-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.13	1.03	3.00	103	90 - 110	X402151 - X4A0166-01	11-Jan-24	
EPA 300.0	Chloride	mg/L	3.86	0.72	3.00	104	90 - 110	X402151 - X4A0177-04	12-Jan-24	
EPA 300.0	Fluoride	mg/L	2.76	0.752	2.00	101	90 - 110	X402151 - X4A0166-01	11-Jan-24	
EPA 300.0	Fluoride	mg/L	2.07	<0.100	2.00	101	90 - 110	X402151 - X4A0177-04	12-Jan-24	
EPA 300.0	Nitrate as N	mg/L	2.03	<0.050	2.00	101	90 - 110	X402151 - X4A0166-01	11-Jan-24	
EPA 300.0	Nitrate as N	mg/L	2.35	0.256	2.00	104	90 - 110	X402151 - X4A0177-04	12-Jan-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.92	<0.100	4.00	98.1	90 - 110	X402151 - X4A0166-01	11-Jan-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.43	0.256	4.00	104	90 - 110	X402151 - X4A0177-04	12-Jan-24	
EPA 300.0	Nitrite as N	mg/L	1.90	<0.050	2.00	94.8	90 - 110	X402151 - X4A0166-01	11-Jan-24	
EPA 300.0	Nitrite as N	mg/L	2.08	<0.050	2.00	104	90 - 110	X402151 - X4A0177-04	12-Jan-24	
EPA 300.0	Sulfate as SO4	mg/L	34.6	24.5	10.0	101	90 - 110	X402151 - X4A0166-01	11-Jan-24	
EPA 300.0	Sulfate as SO4	mg/L	12.4	1.56	10.0	108	90 - 110	X402151 - X4A0177-04	12-Jan-24	

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Work Order: **X4A0166**
Reported: 25-Jan-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	80.6	80.7	20.0	0.1	20	97	X403057 - X4A0166-01	
EPA 200.7	Magnesium	mg/L	34.1	34.0	20.0	0.3	20	98.2	X403057 - X4A0166-01	
EPA 200.7	Potassium	mg/L	21.4	21.5	20.0	0.3	20	99.0	X403057 - X4A0166-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	1.05	1.00	3.7	20	101	X404014 - X4A0257-01	
EPA 200.7	Barium	mg/L	1.02	1.06	1.00	4.0	20	102	X404014 - X4A0257-01	
EPA 200.7	Beryllium	mg/L	0.978	0.994	1.00	1.7	20	97.8	X404014 - X4A0257-01	
EPA 200.7	Boron	mg/L	0.996	1.04	1.00	4.3	20	98.2	X404014 - X4A0257-01	
EPA 200.7	Cadmium	mg/L	0.997	1.02	1.00	2.2	20	99.7	X404014 - X4A0257-01	
EPA 200.7	Calcium	mg/L	68.7	69.4	20.0	1.0	20	104	X404014 - X4A0257-01	
EPA 200.7	Chromium	mg/L	0.985	1.01	1.00	2.8	20	98.5	X404014 - X4A0257-01	
EPA 200.7	Cobalt	mg/L	0.966	0.989	1.00	2.4	20	96.6	X404014 - X4A0257-01	
EPA 200.7	Copper	mg/L	0.974	0.987	1.00	1.3	20	97.0	X404014 - X4A0257-01	
EPA 200.7	Iron	mg/L	10.2	10.7	10.0	4.2	20	102	X404014 - X4A0257-01	
EPA 200.7	Lead	mg/L	0.974	1.00	1.00	2.9	20	97.4	X404014 - X4A0257-01	
EPA 200.7	Lithium	mg/L	1.00	1.05	1.00	4.4	20	100	X404014 - X4A0257-01	
EPA 200.7	Magnesium	mg/L	26.3	27.2	20.0	3.4	20	99.8	X404014 - X4A0257-01	
EPA 200.7	Manganese	mg/L	0.990	1.01	1.00	1.8	20	98.2	X404014 - X4A0257-01	
EPA 200.7	Molybdenum	mg/L	0.960	0.980	1.00	2.0	20	96.0	X404014 - X4A0257-01	
EPA 200.7	Nickel	mg/L	0.966	0.989	1.00	2.3	20	96.6	X404014 - X4A0257-01	
EPA 200.7	Potassium	mg/L	21.2	22.1	20.0	4.3	20	102	X404014 - X4A0257-01	
EPA 200.7	Silver	mg/L	0.0509	0.0530	0.0500	4.0	20	102	X404014 - X4A0257-01	
EPA 200.7	Sodium	mg/L	43.2	43.9	19.0	1.6	20	102	X404014 - X4A0257-01	
EPA 200.7	Vanadium	mg/L	0.977	0.996	1.00	2.0	20	97.7	X404014 - X4A0257-01	
EPA 200.7	Zinc	mg/L	0.999	1.03	1.00	3.1	20	99.9	X404014 - X4A0257-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00196	0.00202	0.00200	3.3	20	97.8	X403062 - X4A0148-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.113	0.100	0.100	12.2	11	113	X403129 - X4A0062-01	R2B
EPA 335.4	Cyanide (total)	mg/L	0.103	0.101	0.100	2.3	20	103	X403028 - X4A0148-01	
EPA 350.1	Ammonia as N	mg/L	0.966	0.950	1.00	1.6	20	94.9	X403020 - X4A0166-01	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	0.100	1.0	11	98.0	X403005 - X4A0062-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.13	4.13	3.00	0.1	20	104	X402151 - X4A0166-01	
EPA 300.0	Fluoride	mg/L	2.76	2.76	2.00	0.0	20	101	X402151 - X4A0166-01	
EPA 300.0	Nitrate as N	mg/L	2.03	2.03	2.00	0.1	20	101	X402151 - X4A0166-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.93	3.92	4.00	0.2	20	98.3	X402151 - X4A0166-01	
EPA 300.0	Nitrite as N	mg/L	1.90	1.90	2.00	0.3	20	95.1	X402151 - X4A0166-01	
EPA 300.0	Sulfate as SO4	mg/L	34.7	34.6	10.0	0.1	20	101	X402151 - X4A0166-01	

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Work Order: **X4A0166**
Reported: 25-Jan-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.
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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Work Order: **X4A0257**
Reported: 15-Feb-24 12:11

Client Sample ID: **GVMW-122G**
SVL Sample ID: **X4A0257-05 (Ground Water)**

Sampled: 18-Jan-24 11:55
Received: 19-Jan-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	34.1	mg/L	0.100	0.069		X404229	JRR	02/01/24 11:04	
EPA 200.7	**Magnesium**	9.78	mg/L	0.500	0.090		X404229	JRR	02/01/24 11:04	
EPA 200.7	**Potassium**	1.55	mg/L	0.50	0.18		X404229	JRR	02/01/24 11:04	
sm 2340B	**Hardness (as CaCO3)**	126	mg/L	2.31	0.543		N/A		02/01/24 11:04	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X404014	JRR	01/24/24 12:50	
EPA 200.7	**Barium**	0.0466	mg/L	0.0020	0.0019		X404014	JRR	01/24/24 12:50	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X404014	JRR	01/24/24 12:50	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X404014	JRR	01/24/24 12:50	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X404014	JRR	01/24/24 12:50	
EPA 200.7	**Calcium**	33.8	mg/L	0.100	0.069		X404014	JRR	01/24/24 12:50	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X404014	JRR	01/24/24 12:50	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X404014	JRR	01/24/24 12:50	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X404014	JRR	01/24/24 12:50	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X404014	JRR	01/24/24 12:50	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X404014	JRR	01/24/24 12:50	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X404014	JRR	01/24/24 12:50	
EPA 200.7	**Magnesium**	9.91	mg/L	0.500	0.090		X404014	JRR	01/24/24 12:50	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X404014	JRR	01/24/24 12:50	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X404014	JRR	01/24/24 12:50	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X404014	JRR	01/24/24 12:50	
EPA 200.7	**Potassium**	1.59	mg/L	0.50	0.18		X404014	JRR	01/24/24 12:50	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X404014	JRR	01/24/24 12:50	
EPA 200.7	**Sodium**	21.8	mg/L	0.50	0.12		X404014	JRR	01/24/24 12:50	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X404014	JRR	01/24/24 12:50	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X404014	JRR	01/24/24 12:50	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X403180	SMU	01/24/24 14:11	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X403180	SMU	01/24/24 14:11	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X403180	SMU	01/24/24 14:11	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X403180	SMU	01/24/24 14:11	
EPA 200.8	**Uranium**	0.000827	mg/L	0.000100	0.000052		X403180	SMU	01/24/24 14:45	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X404233	MAC	01/30/24 14:05	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X405033	DD	02/02/24 13:53	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X404021	DD	01/23/24 14:02	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X404003	DD	01/22/24 14:41	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X405036	DD	02/14/24 11:32	H1
SM 2310 B	**Acidity to pH 8.3**	-80.4	mg/L as CaCO3	10.0			X404198	MWD	01/26/24 09:52	
SM 2320 B	**Total Alkalinity**	79.7	mg/L as CaCO3	1.0			X404046	MWD	01/23/24 13:10	
SM 2320 B	**Bicarbonate**	79.7	mg/L as CaCO3	1.0			X404046	MWD	01/23/24 13:10	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X404046	MWD	01/23/24 13:10	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X404046	MWD	01/23/24 13:10	
SM 2540 C	**Total Diss. Solids**	258	mg/L	10			X404036	TJL	01/24/24 14:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X404037	TJL	01/25/24 16:30	
SM 4500 H B	**pH @18.5°C**	6.7	pH Units				X404046	MWD	01/23/24 13:10	H5

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

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Work Order: **X4A0257**
Reported: 15-Feb-24 12:11

Client Sample ID: **GVMW-122G**
SVL Sample ID: **X4A0257-05 (Ground Water)**

Sampled: 18-Jan-24 11:55
Received: 19-Jan-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	8.14	mg/L	0.20	0.02		X403171	RS	01/19/24 19:38	
EPA 300.0	**Fluoride**	0.384	mg/L	0.100	0.017		X403171	RS	01/19/24 19:38	
EPA 300.0	**Nitrate as N**	0.476	mg/L	0.050	0.013		X403171	RS	01/19/24 19:38	
EPA 300.0	**Nitrate+Nitrite as N**	0.481	mg/L	0.100	0.044		X403171	RS	01/19/24 19:38	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X403171	RS	01/19/24 19:38	
EPA 300.0	**Sulfate as SO4**	89.5	mg/L	3.00	1.80	10	X403171	RS	01/19/24 19:55	D2
Cation/Anion Balance and TDS Ratios										

Cation Sum: 3.49 meq/L Anion Sum: 3.74 meq/L C/A Balance: -3.41 % Calculated TDS: 215 TDS/cTDS: 1.20

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

Kathryn Salter
Project Manager

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Work Order: **X4A0257**
Reported: 15-Feb-24 12:11

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	X404229	01-Feb-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X404229	01-Feb-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X404229	01-Feb-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X404014	24-Jan-24	
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X404014	24-Jan-24	
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X404014	24-Jan-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X404014	24-Jan-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X404014	24-Jan-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X404014	24-Jan-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X404014	24-Jan-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X404014	24-Jan-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X404014	24-Jan-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X404014	24-Jan-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X404014	24-Jan-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X404014	24-Jan-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X404014	24-Jan-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X404014	24-Jan-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X404014	24-Jan-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X404014	24-Jan-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X404014	24-Jan-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X404014	24-Jan-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X404014	24-Jan-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X404014	24-Jan-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X404014	24-Jan-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X404014	24-Jan-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X404014	24-Jan-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X404014	24-Jan-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X404014	24-Jan-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X404014	24-Jan-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X404014	24-Jan-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X404014	24-Jan-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X404014	24-Jan-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X404014	24-Jan-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X404014	24-Jan-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X404014	24-Jan-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X404014	24-Jan-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X404014	24-Jan-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X404014	24-Jan-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X404014	24-Jan-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X404014	24-Jan-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X404014	24-Jan-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X404014	24-Jan-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X404014	24-Jan-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X404014	24-Jan-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X404014	24-Jan-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X404014	24-Jan-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X404014	24-Jan-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X404014	24-Jan-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X404014	24-Jan-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X404014	24-Jan-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X404014	24-Jan-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X404014	24-Jan-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X404014	24-Jan-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X404014	24-Jan-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X404014	24-Jan-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X404014	24-Jan-24	

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Work Order: **X4A0257**
Reported: 15-Feb-24 12:11

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Dissolved) (Continued)								
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X404014	24-Jan-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X404014	24-Jan-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X404014	24-Jan-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X404014	24-Jan-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X404014	24-Jan-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X404014	24-Jan-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X404014	24-Jan-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X404014	24-Jan-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X404014	24-Jan-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X404014	24-Jan-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X403180	24-Jan-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X403180	24-Jan-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X403180	24-Jan-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X403180	24-Jan-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X403180	24-Jan-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X404233	30-Jan-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X405033	02-Feb-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X404021	23-Jan-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X404003	22-Jan-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X405036	14-Feb-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X404198	26-Jan-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X404046	23-Jan-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X404046	23-Jan-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X404046	23-Jan-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X404046	23-Jan-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X404036	24-Jan-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X404037	25-Jan-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X403171	19-Jan-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X403171	19-Jan-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X403171	19-Jan-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X403171	19-Jan-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X403171	19-Jan-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X403171	19-Jan-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	19.6	20.0	98	85 - 115	X404229	01-Feb-24	
EPA 200.7	Magnesium	mg/L	19.6	20.0	98.2	85 - 115	X404229	01-Feb-24	
EPA 200.7	Potassium	mg/L	19.5	20.0	97.6	85 - 115	X404229	01-Feb-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	1.01	1.00	101	85 - 115	X404014	24-Jan-24	
EPA 200.7	Barium	mg/L	1.02	1.00	102	85 - 115	X404014	24-Jan-24	
EPA 200.7	Beryllium	mg/L	0.989	1.00	98.9	85 - 115	X404014	24-Jan-24	
EPA 200.7	Boron	mg/L	0.991	1.00	99.1	85 - 115	X404014	24-Jan-24	
EPA 200.7	Cadmium	mg/L	1.02	1.00	102	85 - 115	X404014	24-Jan-24	

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Work Order: **X4A0257**
Reported: 15-Feb-24 12:11

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Dissolved) (Continued)									
EPA 200.7	Calcium	mg/L	20.4	20.0	102	85 - 115	X404014	24-Jan-24	
EPA 200.7	Chromium	mg/L	1.00	1.00	100	85 - 115	X404014	24-Jan-24	
EPA 200.7	Cobalt	mg/L	0.993	1.00	99.3	85 - 115	X404014	24-Jan-24	
EPA 200.7	Copper	mg/L	0.985	1.00	98.5	85 - 115	X404014	24-Jan-24	
EPA 200.7	Iron	mg/L	10.3	10.0	103	85 - 115	X404014	24-Jan-24	
EPA 200.7	Lead	mg/L	1.01	1.00	101	85 - 115	X404014	24-Jan-24	
EPA 200.7	Lithium	mg/L	0.988	1.00	98.8	85 - 115	X404014	24-Jan-24	
EPA 200.7	Magnesium	mg/L	20.5	20.0	102	85 - 115	X404014	24-Jan-24	
EPA 200.7	Manganese	mg/L	1.00	1.00	100	85 - 115	X404014	24-Jan-24	
EPA 200.7	Molybdenum	mg/L	0.976	1.00	97.6	85 - 115	X404014	24-Jan-24	
EPA 200.7	Nickel	mg/L	0.996	1.00	99.6	85 - 115	X404014	24-Jan-24	
EPA 200.7	Potassium	mg/L	20.4	20.0	102	85 - 115	X404014	24-Jan-24	
EPA 200.7	Silver	mg/L	0.0507	0.0500	101	85 - 115	X404014	24-Jan-24	
EPA 200.7	Sodium	mg/L	19.2	19.0	101	85 - 115	X404014	24-Jan-24	
EPA 200.7	Vanadium	mg/L	0.992	1.00	99.2	85 - 115	X404014	24-Jan-24	
EPA 200.7	Zinc	mg/L	1.02	1.00	102	85 - 115	X404014	24-Jan-24	
EPA 200.8	Antimony	mg/L	0.0232	0.0250	92.9	85 - 115	X403180	24-Jan-24	
EPA 200.8	Arsenic	mg/L	0.0233	0.0250	93.0	85 - 115	X403180	24-Jan-24	
EPA 200.8	Selenium	mg/L	0.0234	0.0250	93.7	85 - 115	X403180	24-Jan-24	
EPA 200.8	Thallium	mg/L	0.0233	0.0250	93.3	85 - 115	X403180	24-Jan-24	
EPA 200.8	Uranium	mg/L	0.0226	0.0250	90.5	85 - 115	X403180	24-Jan-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00215	0.00200	107	85 - 115	X404233	30-Jan-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.110	0.100	110	90 - 110	X405033	02-Feb-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.100	102	90 - 110	X404021	23-Jan-24	
EPA 350.1	Ammonia as N	mg/L	0.974	1.00	97.4	90 - 110	X404003	22-Jan-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0960	0.100	96.0	90 - 110	X405036	14-Feb-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1580	1640	96.6	95.4 - 104	X404198	26-Jan-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.80	9.93	98.7	96.4 - 105	X404046	23-Jan-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	96.4 - 105	X404046	23-Jan-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X404037	25-Jan-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.01	3.00	100	90 - 110	X403171	19-Jan-24	
EPA 300.0	Fluoride	mg/L	2.01	2.00	100	90 - 110	X403171	19-Jan-24	
EPA 300.0	Nitrate as N	mg/L	2.04	2.00	102	90 - 110	X403171	19-Jan-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.58	4.50	102	90 - 110	X403171	19-Jan-24	
EPA 300.0	Nitrite as N	mg/L	2.53	2.50	101	90 - 110	X403171	19-Jan-24	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X403171	19-Jan-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	X404198 - X4A0257-01	26-Jan-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0	<1.0	UDL	20	X404046 - X4A0231-02	23-Jan-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X404046 - X4A0231-02	23-Jan-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X404046 - X4A0231-02	23-Jan-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X404046 - X4A0231-02	23-Jan-24	
SM 2540 C	Total Diss. Solids	mg/L	287	295	2.8	10	X404036 - X4A0270-02	24-Jan-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X404037 - X4A0270-02	25-Jan-24	
SM 4500 H B	pH @19.8°C	pH Units	3.7	3.8	2.7	20	X404046 - X4A0231-02	23-Jan-24	

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Work Order: **X4A0257**
Reported: 15-Feb-24 12:11

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	68.4	48.5	20.0	100	70 - 130	X404229 - X4A0257-01	01-Feb-24	
EPA 200.7	Calcium	mg/L	29.0	8.66	20.0	102	70 - 130	X404229 - X4A0330-01	01-Feb-24	
EPA 200.7	Magnesium	mg/L	26.1	6.07	20.0	100	70 - 130	X404229 - X4A0257-01	01-Feb-24	
EPA 200.7	Magnesium	mg/L	23.9	3.87	20.0	100	70 - 130	X404229 - X4A0330-01	01-Feb-24	
EPA 200.7	Potassium	mg/L	20.5	0.80	20.0	98.3	70 - 130	X404229 - X4A0257-01	01-Feb-24	
EPA 200.7	Potassium	mg/L	20.4	<0.50	20.0	99.8	70 - 130	X404229 - X4A0330-01	01-Feb-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.05	<0.080	1.00	105	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Aluminum	mg/L	1.00	<0.080	1.00	100	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Barium	mg/L	1.06	<0.0020	1.00	106	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Barium	mg/L	1.08	0.0660	1.00	101	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Beryllium	mg/L	0.994	<0.00200	1.00	99.4	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Beryllium	mg/L	0.985	<0.00200	1.00	98.5	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Boron	mg/L	1.04	<0.0400	1.00	103	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Boron	mg/L	0.982	<0.0400	1.00	97.2	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Cadmium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Cadmium	mg/L	1.01	<0.0020	1.00	101	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Calcium	mg/L	69.4	48.0	20.0	107	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Calcium	mg/L	81.3	62.5	20.0	94.0	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Chromium	mg/L	1.01	<0.0060	1.00	101	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Chromium	mg/L	0.997	<0.0060	1.00	99.7	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Cobalt	mg/L	0.989	<0.0060	1.00	98.9	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Cobalt	mg/L	0.975	<0.0060	1.00	97.5	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Copper	mg/L	0.987	<0.0100	1.00	98.3	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Copper	mg/L	0.994	<0.0100	1.00	99.4	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Iron	mg/L	10.7	<0.100	10.0	107	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Iron	mg/L	10.3	0.100	10.0	102	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Lead	mg/L	1.00	<0.0075	1.00	100	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Lead	mg/L	0.991	<0.0075	1.00	99.1	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Lithium	mg/L	1.05	<0.040	1.00	105	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Lithium	mg/L	0.999	<0.040	1.00	99.9	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Magnesium	mg/L	27.2	6.31	20.0	104	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Magnesium	mg/L	35.2	15.7	20.0	97.8	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Manganese	mg/L	1.01	<0.0080	1.00	100	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Manganese	mg/L	1.04	0.0544	1.00	98.7	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Molybdenum	mg/L	0.980	<0.0080	1.00	98.0	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Molybdenum	mg/L	0.977	<0.0080	1.00	97.7	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Nickel	mg/L	0.989	<0.0100	1.00	98.9	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Nickel	mg/L	0.974	<0.0100	1.00	97.4	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Potassium	mg/L	22.1	0.80	20.0	107	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Potassium	mg/L	22.2	1.63	20.0	103	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Silver	mg/L	0.0530	<0.0050	0.0500	106	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Silver	mg/L	0.0507	<0.0050	0.0500	101	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Sodium	mg/L	43.9	23.8	19.0	106	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Sodium	mg/L	29.9	11.0	19.0	99.6	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Vanadium	mg/L	0.996	<0.0050	1.00	99.6	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Vanadium	mg/L	0.993	<0.0050	1.00	99.3	70 - 130	X404014 - X4A0166-01	24-Jan-24	
EPA 200.7	Zinc	mg/L	1.03	<0.0100	1.00	103	70 - 130	X404014 - X4A0257-01	24-Jan-24	
EPA 200.7	Zinc	mg/L	1.00	<0.0100	1.00	100	70 - 130	X404014 - X4A0166-01	24-Jan-24	

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Work Order: **X4A0257**
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Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Antimony	mg/L	0.0249	<0.00100	0.0250	99.7	70 - 130	X403180 - X4A0257-01	24-Jan-24	
EPA 200.8	Antimony	mg/L	0.0287	<0.00500	0.0250	115	70 - 130	X403180 - X4A0148-01	25-Jan-24	D1
EPA 200.8	Arsenic	mg/L	0.0238	<0.00100	0.0250	95.1	70 - 130	X403180 - X4A0257-01	24-Jan-24	
EPA 200.8	Arsenic	mg/L	0.0294	<0.00500	0.0250	118	70 - 130	X403180 - X4A0148-01	25-Jan-24	D1
EPA 200.8	Selenium	mg/L	0.0234	<0.00100	0.0250	92.6	70 - 130	X403180 - X4A0257-01	24-Jan-24	
EPA 200.8	Selenium	mg/L	0.0299	<0.00500	0.0250	120	70 - 130	X403180 - X4A0148-01	25-Jan-24	D1
EPA 200.8	Thallium	mg/L	0.0225	<0.000200	0.0250	90.1	70 - 130	X403180 - X4A0257-01	24-Jan-24	
EPA 200.8	Thallium	mg/L	0.0286	<0.00100	0.0250	114	70 - 130	X403180 - X4A0148-01	25-Jan-24	D1
EPA 200.8	Uranium	mg/L	0.0297	0.00423	0.0250	102	70 - 130	X403180 - X4A0257-01	24-Jan-24	
EPA 200.8	Uranium	mg/L	0.0335	0.00345	0.0250	120	70 - 130	X403180 - X4A0148-01	25-Jan-24	D1
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00227	0.000224	0.00200	103	70 - 130	X404233 - X4A0231-01	30-Jan-24	
EPA 245.1	Mercury	mg/L	0.00209	<0.000200	0.00200	104	70 - 130	X404233 - X4A0268-02	30-Jan-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	<0.0050	0.100	97.0	79 - 121	X405033 - X4A0281-03	02-Feb-24	
EPA 335.4	Cyanide (total)	mg/L	0.106	<0.0050	0.100	106	90 - 110	X404021 - X4A0213-01	23-Jan-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X404021 - X4A0257-01	23-Jan-24	
EPA 350.1	Ammonia as N	mg/L	0.899	<0.030	1.00	89.9	90 - 110	X404003 - X4A0257-02	22-Jan-24	M2
OIA 1677	Cyanide (WAD)	mg/L	0.0970	<0.0050	0.100	95.0	82 - 118	X405036 - X4A0213-01	14-Feb-24	H1
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	39.7	37.9	3.00	0.30R>S	90 - 110	X403171 - X4A0257-02	19-Jan-24	D2,M4
EPA 300.0	Fluoride	mg/L	4.21	2.24	2.00	98.4	90 - 110	X403171 - X4A0257-02	19-Jan-24	
EPA 300.0	Nitrate as N	mg/L	4.40	2.34	2.00	103	90 - 110	X403171 - X4A0257-02	19-Jan-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	6.44	2.34	4.00	103	90 - 110	X403171 - X4A0257-02	19-Jan-24	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X403171 - X4A0257-02	19-Jan-24	
EPA 300.0	Sulfate as SO4	mg/L	100	92.4	10.0	0.30R>S	90 - 110	X403171 - X4A0257-02	19-Jan-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	69.3	68.4	20.0	1.0	20	104	X404229 - X4A0257-01	
EPA 200.7	Magnesium	mg/L	26.0	26.1	20.0	0.5	20	99.7	X404229 - X4A0257-01	
EPA 200.7	Potassium	mg/L	20.6	20.5	20.0	0.8	20	99.1	X404229 - X4A0257-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	1.05	1.00	3.7	20	101	X404014 - X4A0257-01	
EPA 200.7	Barium	mg/L	1.02	1.06	1.00	4.0	20	102	X404014 - X4A0257-01	
EPA 200.7	Beryllium	mg/L	0.978	0.994	1.00	1.7	20	97.8	X404014 - X4A0257-01	
EPA 200.7	Boron	mg/L	0.996	1.04	1.00	4.3	20	98.2	X404014 - X4A0257-01	
EPA 200.7	Cadmium	mg/L	0.997	1.02	1.00	2.2	20	99.7	X404014 - X4A0257-01	
EPA 200.7	Calcium	mg/L	68.7	69.4	20.0	1.0	20	104	X404014 - X4A0257-01	
EPA 200.7	Chromium	mg/L	0.985	1.01	1.00	2.8	20	98.5	X404014 - X4A0257-01	
EPA 200.7	Cobalt	mg/L	0.966	0.989	1.00	2.4	20	96.6	X404014 - X4A0257-01	
EPA 200.7	Copper	mg/L	0.974	0.987	1.00	1.3	20	97.0	X404014 - X4A0257-01	
EPA 200.7	Iron	mg/L	10.2	10.7	10.0	4.2	20	102	X404014 - X4A0257-01	
EPA 200.7	Lead	mg/L	0.974	1.00	1.00	2.9	20	97.4	X404014 - X4A0257-01	
EPA 200.7	Lithium	mg/L	1.00	1.05	1.00	4.4	20	100	X404014 - X4A0257-01	

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Work Order: **X4A0257**
Reported: 15-Feb-24 12:11

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Magnesium	mg/L	26.3	27.2	20.0	3.4	20	99.8	X404014 - X4A0257-01	
EPA 200.7	Manganese	mg/L	0.990	1.01	1.00	1.8	20	98.2	X404014 - X4A0257-01	
EPA 200.7	Molybdenum	mg/L	0.960	0.980	1.00	2.0	20	96.0	X404014 - X4A0257-01	
EPA 200.7	Nickel	mg/L	0.966	0.989	1.00	2.3	20	96.6	X404014 - X4A0257-01	
EPA 200.7	Potassium	mg/L	21.2	22.1	20.0	4.3	20	102	X404014 - X4A0257-01	
EPA 200.7	Silver	mg/L	0.0509	0.0530	0.0500	4.0	20	102	X404014 - X4A0257-01	
EPA 200.7	Sodium	mg/L	43.2	43.9	19.0	1.6	20	102	X404014 - X4A0257-01	
EPA 200.7	Vanadium	mg/L	0.977	0.996	1.00	2.0	20	97.7	X404014 - X4A0257-01	
EPA 200.7	Zinc	mg/L	0.999	1.03	1.00	3.1	20	99.9	X404014 - X4A0257-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00233	0.00227	0.00200	2.4	20	105	X404233 - X4A0231-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0950	0.0970	0.100	2.1	11	95.0	X405033 - X4A0281-03	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.106	0.100	1.8	20	104	X404021 - X4A0213-01	
EPA 350.1	Ammonia as N	mg/L	0.975	0.899	1.00	8.1	20	97.5	X404003 - X4A0257-02	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.0970	0.100	5.0	11	100	X405036 - X4A0213-01	H1
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	40.6	39.7	3.00	2.2	20	0.30R>S	X403171 - X4A0257-02	D2,M4
EPA 300.0	Fluoride	mg/L	4.22	4.21	2.00	0.3	20	98.9	X403171 - X4A0257-02	
EPA 300.0	Nitrate as N	mg/L	4.39	4.40	2.00	0.2	20	102	X403171 - X4A0257-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	6.46	6.44	4.00	0.2	20	103	X403171 - X4A0257-02	
EPA 300.0	Nitrite as N	mg/L	2.07	2.04	2.00	1.1	20	103	X403171 - X4A0257-02	
EPA 300.0	Sulfate as SO4	mg/L	101	100	10.0	0.3	20	0.30R>S	X403171 - X4A0257-02	D2,M4

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Work Order: **X4A0257**
Reported: 15-Feb-24 12:11

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.
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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Work Order: **X4A0148**
Reported: 25-Jan-24 13:32

Client Sample ID: **GVMW-107F**
SVL Sample ID: **X4A0148-02 (Ground Water)**

Sampled: 09-Jan-24 11:45
Received: 10-Jan-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	34.4	mg/L	0.100	0.069		X403056	SMU	01/22/24 14:00	
EPA 200.7	**Magnesium**	16.4	mg/L	0.500	0.090		X403056	SMU	01/22/24 14:00	
EPA 200.7	**Potassium**	0.83	mg/L	0.50	0.18		X403056	SMU	01/22/24 14:00	
SM 2340 B	**Hardness (as CaCO3)**	153	mg/L	2.31	0.543		N/A		01/10/24 15:48	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X401134	SMU	01/11/24 14:13	
EPA 200.7	**Barium**	0.152	mg/L	0.0020	0.0019		X401134	SMU	01/10/24 15:48	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X401134	SMU	01/10/24 15:48	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X401134	SMU	01/10/24 15:48	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X401134	SMU	01/10/24 15:48	
EPA 200.7	**Calcium**	34.1	mg/L	0.100	0.069		X401134	SMU	01/10/24 15:48	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X401134	SMU	01/10/24 15:48	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X401134	SMU	01/10/24 15:48	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X401134	SMU	01/10/24 15:48	
EPA 200.7	**Iron**	1.02	mg/L	0.100	0.056		X401134	SMU	01/10/24 15:48	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X401134	SMU	01/10/24 15:48	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X401134	SMU	01/10/24 15:48	
EPA 200.7	**Magnesium**	16.3	mg/L	0.500	0.090		X401134	SMU	01/10/24 15:48	
EPA 200.7	**Manganese**	0.187	mg/L	0.0080	0.0034		X401134	SMU	01/10/24 15:48	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X401134	SMU	01/10/24 15:48	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X401134	SMU	01/10/24 15:48	
EPA 200.7	**Potassium**	0.78	mg/L	0.50	0.18		X401134	SMU	01/10/24 15:48	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X401134	SMU	01/10/24 15:48	
EPA 200.7	**Sodium**	9.01	mg/L	0.50	0.12		X401134	SMU	01/10/24 15:48	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X401134	SMU	01/10/24 15:48	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X401134	SMU	01/10/24 15:48	
EPA 200.8	Antimony	< 0.00500	mg/L	0.00500	0.00360	5	X403180	SMU	01/25/24 09:53	D1
EPA 200.8	Arsenic	< 0.00500	mg/L	0.00500	0.00105	5	X403180	SMU	01/25/24 09:53	D1
EPA 200.8	Selenium	< 0.00500	mg/L	0.00500	0.00120	5	X403180	SMU	01/25/24 09:53	D1
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.000400	5	X403180	SMU	01/25/24 09:53	D1
EPA 200.8	**Uranium**	0.00373	mg/L	0.000500	0.000260	5	X403180	SMU	01/25/24 09:53	D1
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X403062	MAC	01/22/24 13:42	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @20.0°C	< 0.0050	mg/L	0.0050	0.0048		X403129	DD	01/19/24 10:42	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X403028	DD	01/17/24 09:45	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X403019	DD	01/16/24 13:01	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X403005	DD	01/22/24 15:15	
SM 2310 B	**Acidity to pH 8.3**	-150	mg/L as CaCO3	10.0			X403136	MWD	01/19/24 10:43	
SM 2320 B	**Total Alkalinity**	152	mg/L as CaCO3	1.0			X402145	MWD	01/11/24 11:09	
SM 2320 B	**Bicarbonate**	152	mg/L as CaCO3	1.0			X402145	MWD	01/11/24 11:09	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X402145	MWD	01/11/24 11:09	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X402145	MWD	01/11/24 11:09	
SM 2540 C	**Total Diss. Solids**	183	mg/L	10			X402135	TJL	01/12/24 14:10	
SM 2540 D	**Total Susp. Solids**	5.0	mg/L	5.0			X402136	TJL	01/12/24 15:00	
SM 4500 H B	**pH @17.5°C**	7.4	pH Units				X402145	MWD	01/11/24 11:09	H5

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

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Work Order: **X4A0148**
Reported: 25-Jan-24 13:32

Client Sample ID: **GVMW-107F**
SVL Sample ID: **X4A0148-02 (Ground Water)**

Sampled: 09-Jan-24 11:45
Received: 10-Jan-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	5.20	mg/L	0.20	0.02		X402128	RS	01/10/24 17:12	
EPA 300.0	**Fluoride**	0.963	mg/L	0.100	0.017		X402128	RS	01/10/24 17:12	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X402128	RS	01/10/24 17:12	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X402128	RS	01/10/24 17:12	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X402128	RS	01/10/24 17:12	
EPA 300.0	**Sulfate as SO4**	17.7	mg/L	0.30	0.18		X402128	RS	01/10/24 17:12	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.51 meq/L Anion Sum: 3.61 meq/L C/A Balance: -1.33 % Calculated TDS: 175 TDS/cTDS: 1.04

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

Kathryn Salter
Project Manager

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Work Order: **X4A0148**
Reported: 25-Jan-24 13:32

Client Sample ID: **CCVB-0109**
SVL Sample ID: **X4A0148-05 (Ground Water)**

Sampled: 09-Jan-24 14:25
Received: 10-Jan-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X403056	SMU	01/22/24 14:19	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X403056	SMU	01/22/24 14:19	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X403056	SMU	01/22/24 14:19	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		01/10/24 15:58	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X401134	SMU	01/11/24 14:24	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X401134	SMU	01/10/24 15:58	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X401134	SMU	01/10/24 15:58	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X401134	SMU	01/10/24 15:58	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X401134	SMU	01/10/24 15:58	
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X401134	SMU	01/10/24 15:58	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X401134	SMU	01/10/24 15:58	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X401134	SMU	01/10/24 15:58	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X401134	SMU	01/10/24 15:58	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X401134	SMU	01/10/24 15:58	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X401134	SMU	01/10/24 15:58	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X401134	SMU	01/10/24 15:58	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X401134	SMU	01/10/24 15:58	
EPA 200.7	**Manganese**	0.0150	mg/L	0.0080	0.0034		X401134	SMU	01/10/24 15:58	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X401134	SMU	01/10/24 15:58	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X401134	SMU	01/10/24 15:58	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X401134	SMU	01/10/24 15:58	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X401134	SMU	01/10/24 15:58	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X401134	SMU	01/10/24 15:58	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X401134	SMU	01/10/24 15:58	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X401134	SMU	01/10/24 15:58	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X403180	SMU	01/24/24 13:38	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X403180	SMU	01/24/24 13:38	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X403180	SMU	01/24/24 13:38	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X403180	SMU	01/24/24 13:38	
EPA 200.8	**Uranium**	0.000125	mg/L	0.000100	0.000052		X403180	SMU	01/24/24 13:38	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X403062	MAC	01/22/24 13:48	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @20.0°C	< 0.0050	mg/L	0.0050	0.0048		X403129	DD	01/19/24 13:08	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X403028	DD	01/17/24 10:04	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X403019	DD	01/16/24 13:08	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X403005	DD	01/22/24 15:20	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X403136	MWD	01/19/24 10:43	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X402145	MWD	01/11/24 11:26	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X402145	MWD	01/11/24 11:26	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X402145	MWD	01/11/24 11:26	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X402145	MWD	01/11/24 11:26	
SM 2540 C	**Total Diss. Solids**	83	mg/L	10			X402135	TJL	01/12/24 14:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X402136	TJL	01/12/24 15:00	
SM 4500 H B	**pH @18.2°C**	6.0	pH Units				X402145	MWD	01/11/24 11:26	H5

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

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Work Order: **X4A0148**
Reported: 25-Jan-24 13:32

Client Sample ID: **CCVB-0109**
SVL Sample ID: **X4A0148-05 (Ground Water)**

Sampled: 09-Jan-24 14:25
Received: 10-Jan-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		X402128	RS	01/10/24 15:46	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X402128	RS	01/10/24 15:46	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X402128	RS	01/10/24 15:46	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X402128	RS	01/10/24 15:46	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X402128	RS	01/10/24 15:46	
EPA 300.0	Sulfate as SO4	< 0.30	mg/L	0.30	0.18		X402128	RS	01/10/24 15:46	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.03 meq/L Anion Sum: 0.03 meq/L C/A Balance: 8.95 % Calculated TDS: 0

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

Kathryn Salter
Project Manager

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Work Order: **X4A0148**
Reported: 25-Jan-24 13:32

Client Sample ID: **RB1-0109**
SVL Sample ID: **X4A0148-06 (Ground Water)**

Sampled: 09-Jan-24 10:05
Received: 10-Jan-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X403056	SMU	01/22/24 14:23	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X403056	SMU	01/22/24 14:23	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X403056	SMU	01/22/24 14:23	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		01/10/24 16:02	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X401134	SMU	01/11/24 14:27	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X401134	SMU	01/10/24 16:02	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X401134	SMU	01/10/24 16:02	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X401134	SMU	01/10/24 16:02	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X401134	SMU	01/10/24 16:02	
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X401134	SMU	01/10/24 16:02	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X401134	SMU	01/10/24 16:02	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X401134	SMU	01/10/24 16:02	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X401134	SMU	01/10/24 16:02	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X401134	SMU	01/10/24 16:02	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X401134	SMU	01/10/24 16:02	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X401134	SMU	01/10/24 16:02	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X401134	SMU	01/10/24 16:02	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X401134	SMU	01/10/24 16:02	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X401134	SMU	01/10/24 16:02	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X401134	SMU	01/10/24 16:02	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X401134	SMU	01/10/24 16:02	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X401134	SMU	01/10/24 16:02	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X401134	SMU	01/10/24 16:02	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X401134	SMU	01/10/24 16:02	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X401134	SMU	01/10/24 16:02	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X403180	SMU	01/24/24 13:41	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X403180	SMU	01/24/24 13:41	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X403180	SMU	01/24/24 13:41	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X403180	SMU	01/24/24 13:41	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X403180	SMU	01/24/24 13:41	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X403062	MAC	01/22/24 13:50	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @20.0°C	< 0.0050	mg/L	0.0050	0.0048		X403129	DD	01/19/24 13:10	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X403028	DD	01/17/24 10:06	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X403019	DD	01/16/24 13:11	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X403005	DD	01/22/24 15:21	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X403136	MWD	01/19/24 10:43	
SM 2320 B	**Total Alkalinity**	1.6	mg/L as CaCO3	1.0			X402145	MWD	01/11/24 11:43	
SM 2320 B	**Bicarbonate**	1.6	mg/L as CaCO3	1.0			X402145	MWD	01/11/24 11:43	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X402145	MWD	01/11/24 11:43	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X402145	MWD	01/11/24 11:43	
SM 2540 C	**Total Diss. Solids**	23	mg/L	10			X402135	TJL	01/12/24 14:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X402136	TJL	01/12/24 15:00	
SM 4500 H B	**pH @18.7°C**	6.1	pH Units				X402145	MWD	01/11/24 11:43	H5

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

One Government Gulch - PO Box 929
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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Work Order: **X4A0148**
Reported: 25-Jan-24 13:32

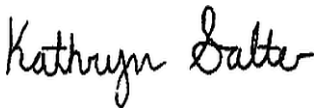
Client Sample ID: **RB1-0109**
SVL Sample ID: **X4A0148-06 (Ground Water)**

Sampled: 09-Jan-24 10:05
Received: 10-Jan-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		X402128	RS	01/10/24 12:56	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X402128	RS	01/10/24 12:56	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X402128	RS	01/10/24 12:56	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X402128	RS	01/10/24 12:56	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X402128	RS	01/10/24 12:56	
EPA 300.0	**Sulfate as SO4**	0.50	mg/L	0.30	0.18		X402128	RS	01/10/24 12:56	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 0.03 meq/L Anion Sum: 0.05 meq/L C/A Balance: -16.62 % Calculated TDS: 1 TDS/cTDS: 15.75

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



Kathryn Salter
Project Manager

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Post Office Box 191
Victor, CO 80860

Work Order: **X4A0148**
Reported: 25-Jan-24 13:32

Client Sample ID: **RB2-0109**
SVL Sample ID: **X4A0148-07 (Ground Water)**

Sampled: 09-Jan-24 12:50
Received: 10-Jan-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X403056	SMU	01/22/24 14:27	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X403056	SMU	01/22/24 14:27	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X403056	SMU	01/22/24 14:27	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		01/10/24 16:05	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X401134	SMU	01/11/24 14:31	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X401134	SMU	01/10/24 16:05	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X401134	SMU	01/10/24 16:05	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X401134	SMU	01/10/24 16:05	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X401134	SMU	01/10/24 16:05	
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X401134	SMU	01/10/24 16:05	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X401134	SMU	01/10/24 16:05	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X401134	SMU	01/10/24 16:05	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X401134	SMU	01/10/24 16:05	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X401134	SMU	01/10/24 16:05	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X401134	SMU	01/10/24 16:05	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X401134	SMU	01/10/24 16:05	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X401134	SMU	01/10/24 16:05	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X401134	SMU	01/10/24 16:05	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X401134	SMU	01/10/24 16:05	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X401134	SMU	01/10/24 16:05	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X401134	SMU	01/10/24 16:05	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X401134	SMU	01/10/24 16:05	
EPA 200.7	**Sodium**	1.12	mg/L	0.50	0.12		X401134	SMU	01/10/24 16:05	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X401134	SMU	01/10/24 16:05	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X401134	SMU	01/10/24 16:05	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X403180	SMU	01/24/24 13:48	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X403180	SMU	01/24/24 13:48	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X403180	SMU	01/24/24 13:48	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X403180	SMU	01/24/24 13:48	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X403180	SMU	01/24/24 14:33	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X403062	MAC	01/22/24 13:52	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @20.0°C	< 0.0050	mg/L	0.0050	0.0048		X403129	DD	01/19/24 13:12	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X403028	DD	01/17/24 10:09	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X403019	DD	01/16/24 13:13	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X403005	DD	01/22/24 15:23	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X403136	MWD	01/19/24 10:43	
SM 2320 B	**Total Alkalinity**	1.5	mg/L as CaCO3	1.0			X402145	MWD	01/11/24 11:48	
SM 2320 B	**Bicarbonate**	1.5	mg/L as CaCO3	1.0			X402145	MWD	01/11/24 11:48	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X402145	MWD	01/11/24 11:48	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X402145	MWD	01/11/24 11:48	
SM 2540 C	**Total Diss. Solids**	13	mg/L	10			X402135	TJL	01/12/24 14:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X402136	TJL	01/12/24 15:00	
SM 4500 H B	**pH @18.8°C**	6.2	pH Units				X402145	MWD	01/11/24 11:48	H5

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

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Victor, CO 80860

Work Order: **X4A0148**
Reported: 25-Jan-24 13:32

Client Sample ID: **RB2-0109**
SVL Sample ID: **X4A0148-07 (Ground Water)**

Sampled: 09-Jan-24 12:50
Received: 10-Jan-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		X402128	RS	01/10/24 14:04	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X402128	RS	01/10/24 14:04	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X402128	RS	01/10/24 14:04	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X402128	RS	01/10/24 14:04	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X402128	RS	01/10/24 14:04	
EPA 300.0	Sulfate as SO4	< 0.30	mg/L	0.30	0.18		X402128	RS	01/10/24 14:04	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.08 meq/L Anion Sum: 0.04 meq/L C/A Balance: 33.41 % Calculated TDS: 2 TDS/cTDS: 6.44

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

Kathryn Salter
Project Manager

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Post Office Box 191
Victor, CO 80860

Work Order: **X4A0148**
Reported: 25-Jan-24 13:32

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	X403056	22-Jan-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X403056	22-Jan-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X403056	22-Jan-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X401134	10-Jan-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X401134	10-Jan-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X401134	10-Jan-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X401134	10-Jan-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X401134	10-Jan-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X401134	10-Jan-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X401134	10-Jan-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X401134	10-Jan-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X401134	10-Jan-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X401134	10-Jan-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X401134	10-Jan-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X401134	10-Jan-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X401134	10-Jan-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X401134	10-Jan-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X401134	10-Jan-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X401134	10-Jan-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X401134	10-Jan-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X401134	10-Jan-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X401134	10-Jan-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X401134	10-Jan-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X401134	10-Jan-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X403180	24-Jan-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X403180	24-Jan-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X403180	24-Jan-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X403180	24-Jan-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X403180	24-Jan-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X403062	22-Jan-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X403129	19-Jan-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X403028	17-Jan-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X403019	16-Jan-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X403005	22-Jan-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X403136	19-Jan-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X402145	11-Jan-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X402145	11-Jan-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X402145	11-Jan-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X402145	11-Jan-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X402135	12-Jan-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X402136	12-Jan-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X402128	10-Jan-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X402128	10-Jan-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X402128	10-Jan-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X402128	10-Jan-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X402128	10-Jan-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X402128	10-Jan-24	

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Work Order: **X4A0148**
Reported: 25-Jan-24 13:32

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	X403056	22-Jan-24	
EPA 200.7	Magnesium	mg/L	20.1	20.0	101	85 - 115	X403056	22-Jan-24	
EPA 200.7	Potassium	mg/L	19.6	20.0	98.2	85 - 115	X403056	22-Jan-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.940	1.00	94.0	85 - 115	X401134	10-Jan-24	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X401134	10-Jan-24	
EPA 200.7	Beryllium	mg/L	0.967	1.00	96.7	85 - 115	X401134	10-Jan-24	
EPA 200.7	Boron	mg/L	0.990	1.00	99.0	85 - 115	X401134	10-Jan-24	
EPA 200.7	Cadmium	mg/L	1.01	1.00	101	85 - 115	X401134	10-Jan-24	
EPA 200.7	Calcium	mg/L	18.9	20.0	94.3	85 - 115	X401134	10-Jan-24	
EPA 200.7	Chromium	mg/L	1.01	1.00	101	85 - 115	X401134	10-Jan-24	
EPA 200.7	Cobalt	mg/L	0.971	1.00	97.1	85 - 115	X401134	10-Jan-24	
EPA 200.7	Copper	mg/L	0.995	1.00	99.5	85 - 115	X401134	10-Jan-24	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X401134	10-Jan-24	
EPA 200.7	Lead	mg/L	0.980	1.00	98.0	85 - 115	X401134	10-Jan-24	
EPA 200.7	Lithium	mg/L	0.962	1.00	96.2	85 - 115	X401134	10-Jan-24	
EPA 200.7	Magnesium	mg/L	19.6	20.0	97.8	85 - 115	X401134	10-Jan-24	
EPA 200.7	Manganese	mg/L	0.966	1.00	96.6	85 - 115	X401134	10-Jan-24	
EPA 200.7	Molybdenum	mg/L	0.964	1.00	96.4	85 - 115	X401134	10-Jan-24	
EPA 200.7	Nickel	mg/L	0.990	1.00	99.0	85 - 115	X401134	10-Jan-24	
EPA 200.7	Potassium	mg/L	19.4	20.0	96.9	85 - 115	X401134	10-Jan-24	
EPA 200.7	Silver	mg/L	0.0516	0.0500	103	85 - 115	X401134	10-Jan-24	
EPA 200.7	Sodium	mg/L	18.7	19.0	98.6	85 - 115	X401134	10-Jan-24	
EPA 200.7	Vanadium	mg/L	1.04	1.00	104	85 - 115	X401134	10-Jan-24	
EPA 200.7	Zinc	mg/L	0.988	1.00	98.8	85 - 115	X401134	10-Jan-24	
EPA 200.8	Antimony	mg/L	0.0232	0.0250	92.9	85 - 115	X403180	24-Jan-24	
EPA 200.8	Arsenic	mg/L	0.0233	0.0250	93.0	85 - 115	X403180	24-Jan-24	
EPA 200.8	Selenium	mg/L	0.0234	0.0250	93.7	85 - 115	X403180	24-Jan-24	
EPA 200.8	Thallium	mg/L	0.0233	0.0250	93.3	85 - 115	X403180	24-Jan-24	
EPA 200.8	Uranium	mg/L	0.0226	0.0250	90.5	85 - 115	X403180	24-Jan-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00199	0.00200	99.7	85 - 115	X403062	22-Jan-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.110	0.100	110	90 - 110	X403129	19-Jan-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X403028	17-Jan-24	
EPA 350.1	Ammonia as N	mg/L	0.924	1.00	92.4	90 - 110	X403019	16-Jan-24	
OIA 1677	Cyanide (WAD)	mg/L	0.100	0.100	100	90 - 110	X403005	22-Jan-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1580	1640	96.6	95.4 - 104	X403136	19-Jan-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.70	9.93	97.7	96.4 - 105	X402145	11-Jan-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	98.4	99.3	99.1	96.4 - 105	X402145	11-Jan-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	396	397	99.6	96.4 - 105	X402145	11-Jan-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X402136	12-Jan-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.07	3.00	102	90 - 110	X402128	10-Jan-24	
EPA 300.0	Fluoride	mg/L	2.02	2.00	101	90 - 110	X402128	10-Jan-24	
EPA 300.0	Nitrate as N	mg/L	2.06	2.00	103	90 - 110	X402128	10-Jan-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.61	4.50	102	90 - 110	X402128	10-Jan-24	
EPA 300.0	Nitrite as N	mg/L	2.55	2.50	102	90 - 110	X402128	10-Jan-24	
EPA 300.0	Sulfate as SO4	mg/L	10.7	10.0	107	90 - 110	X402128	10-Jan-24	

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Work Order: **X4A0148**
Reported: 25-Jan-24 13:32

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	X403136 - X4A0148-01	19-Jan-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	152	152	0.3	20	X402145 - X4A0148-02	11-Jan-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	152	152	0.3	20	X402145 - X4A0148-02	11-Jan-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X402145 - X4A0148-02	11-Jan-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X402145 - X4A0148-02	11-Jan-24	
SM 2540 C	Total Diss. Solids	mg/L	270	272	0.7	10	X402135 - X4A0137-02	12-Jan-24	
SM 2540 C	Total Diss. Solids	mg/L	481	467	3.0	10	X402135 - X4A0148-03	12-Jan-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X402136 - X4A0137-02	12-Jan-24	
SM 2540 D	Total Susp. Solids	mg/L	6.0	6.0	0.0	10	X402136 - X4A0148-03	12-Jan-24	
SM 4500 H B	pH @17.3°C	pH Units	7.3	7.4	1.2	20	X402145 - X4A0148-02	11-Jan-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	39.7	20.0	20.0	98	70 - 130	X403056 - X4A0146-01	22-Jan-24	
EPA 200.7	Calcium	mg/L	72.7	51.7	20.0	105	70 - 130	X403056 - X4A0174-03	22-Jan-24	
EPA 200.7	Magnesium	mg/L	27.3	6.37	20.0	104	70 - 130	X403056 - X4A0146-01	22-Jan-24	
EPA 200.7	Magnesium	mg/L	23.1	1.59	20.0	108	70 - 130	X403056 - X4A0174-03	22-Jan-24	
EPA 200.7	Potassium	mg/L	21.0	1.21	20.0	99.1	70 - 130	X403056 - X4A0146-01	22-Jan-24	
EPA 200.7	Potassium	mg/L	25.3	4.98	20.0	101	70 - 130	X403056 - X4A0174-03	22-Jan-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.932	<0.080	1.00	93.2	70 - 130	X401134 - X4A0062-01	10-Jan-24	
EPA 200.7	Aluminum	mg/L	0.960	<0.080	1.00	96.0	70 - 130	X401134 - X4A0148-07	10-Jan-24	
EPA 200.7	Barium	mg/L	1.05	0.0389	1.00	101	70 - 130	X401134 - X4A0062-01	10-Jan-24	
EPA 200.7	Barium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X401134 - X4A0148-07	10-Jan-24	
EPA 200.7	Beryllium	mg/L	0.975	<0.00200	1.00	97.5	70 - 130	X401134 - X4A0062-01	10-Jan-24	
EPA 200.7	Beryllium	mg/L	0.974	<0.00200	1.00	97.4	70 - 130	X401134 - X4A0148-07	10-Jan-24	
EPA 200.7	Boron	mg/L	1.04	<0.0400	1.00	100	70 - 130	X401134 - X4A0062-01	10-Jan-24	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	102	70 - 130	X401134 - X4A0148-07	10-Jan-24	
EPA 200.7	Cadmium	mg/L	1.03	<0.0020	1.00	103	70 - 130	X401134 - X4A0062-01	10-Jan-24	
EPA 200.7	Cadmium	mg/L	1.04	<0.0020	1.00	104	70 - 130	X401134 - X4A0148-07	10-Jan-24	
EPA 200.7	Calcium	mg/L	64.8	46.1	20.0	93.6	70 - 130	X401134 - X4A0062-01	10-Jan-24	
EPA 200.7	Calcium	mg/L	19.2	<0.100	20.0	95.9	70 - 130	X401134 - X4A0148-07	10-Jan-24	
EPA 200.7	Chromium	mg/L	1.01	<0.0060	1.00	101	70 - 130	X401134 - X4A0062-01	10-Jan-24	
EPA 200.7	Chromium	mg/L	1.02	<0.0060	1.00	102	70 - 130	X401134 - X4A0148-07	10-Jan-24	
EPA 200.7	Cobalt	mg/L	0.972	<0.0060	1.00	97.2	70 - 130	X401134 - X4A0062-01	10-Jan-24	
EPA 200.7	Cobalt	mg/L	0.990	<0.0060	1.00	99.0	70 - 130	X401134 - X4A0148-07	10-Jan-24	
EPA 200.7	Copper	mg/L	1.00	<0.0100	1.00	100	70 - 130	X401134 - X4A0062-01	10-Jan-24	
EPA 200.7	Copper	mg/L	1.01	<0.0100	1.00	101	70 - 130	X401134 - X4A0148-07	10-Jan-24	
EPA 200.7	Iron	mg/L	10.1	<0.100	10.0	101	70 - 130	X401134 - X4A0062-01	10-Jan-24	
EPA 200.7	Iron	mg/L	10.1	<0.100	10.0	101	70 - 130	X401134 - X4A0148-07	10-Jan-24	
EPA 200.7	Lead	mg/L	0.983	<0.0075	1.00	98.3	70 - 130	X401134 - X4A0062-01	10-Jan-24	
EPA 200.7	Lead	mg/L	1.01	<0.0075	1.00	101	70 - 130	X401134 - X4A0148-07	10-Jan-24	
EPA 200.7	Lithium	mg/L	0.987	<0.040	1.00	98.7	70 - 130	X401134 - X4A0062-01	10-Jan-24	
EPA 200.7	Lithium	mg/L	0.976	<0.040	1.00	97.6	70 - 130	X401134 - X4A0148-07	10-Jan-24	
EPA 200.7	Magnesium	mg/L	30.6	11.0	20.0	98.0	70 - 130	X401134 - X4A0062-01	10-Jan-24	
EPA 200.7	Magnesium	mg/L	19.9	<0.500	20.0	99.5	70 - 130	X401134 - X4A0148-07	10-Jan-24	

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Work Order: **X4A0148**
Reported: 25-Jan-24 13:32

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	0.993	0.0216	1.00	97.2	70 - 130	X401134 - X4A0062-01	10-Jan-24	
EPA 200.7	Manganese	mg/L	0.981	<0.0080	1.00	98.1	70 - 130	X401134 - X4A0148-07	10-Jan-24	
EPA 200.7	Molybdenum	mg/L	0.964	<0.0080	1.00	96.4	70 - 130	X401134 - X4A0062-01	10-Jan-24	
EPA 200.7	Molybdenum	mg/L	0.972	<0.0080	1.00	97.2	70 - 130	X401134 - X4A0148-07	10-Jan-24	
EPA 200.7	Nickel	mg/L	0.982	<0.0100	1.00	98.2	70 - 130	X401134 - X4A0062-01	10-Jan-24	
EPA 200.7	Nickel	mg/L	1.01	<0.0100	1.00	101	70 - 130	X401134 - X4A0148-07	10-Jan-24	
EPA 200.7	Potassium	mg/L	22.5	2.44	20.0	100	70 - 130	X401134 - X4A0062-01	10-Jan-24	
EPA 200.7	Potassium	mg/L	19.8	<0.50	20.0	98.9	70 - 130	X401134 - X4A0148-07	10-Jan-24	
EPA 200.7	Silver	mg/L	0.0517	<0.0050	0.0500	103	70 - 130	X401134 - X4A0062-01	10-Jan-24	
EPA 200.7	Silver	mg/L	0.0527	<0.0050	0.0500	105	70 - 130	X401134 - X4A0148-07	10-Jan-24	
EPA 200.7	Sodium	mg/L	51.9	33.4	19.0	97.6	70 - 130	X401134 - X4A0062-01	10-Jan-24	
EPA 200.7	Sodium	mg/L	20.1	1.12	19.0	99.8	70 - 130	X401134 - X4A0148-07	10-Jan-24	
EPA 200.7	Vanadium	mg/L	1.05	<0.0050	1.00	105	70 - 130	X401134 - X4A0062-01	10-Jan-24	
EPA 200.7	Vanadium	mg/L	1.04	<0.0050	1.00	104	70 - 130	X401134 - X4A0148-07	10-Jan-24	
EPA 200.7	Zinc	mg/L	1.00	<0.0100	1.00	100	70 - 130	X401134 - X4A0062-01	10-Jan-24	
EPA 200.7	Zinc	mg/L	1.02	<0.0100	1.00	102	70 - 130	X401134 - X4A0148-07	10-Jan-24	
EPA 200.8	Antimony	mg/L	0.0249	<0.00100	0.0250	99.7	70 - 130	X403180 - X4A0257-01	24-Jan-24	
EPA 200.8	Antimony	mg/L	0.0287	<0.00500	0.0250	115	70 - 130	X403180 - X4A0148-01	25-Jan-24	D1
EPA 200.8	Arsenic	mg/L	0.0238	<0.00100	0.0250	95.1	70 - 130	X403180 - X4A0257-01	24-Jan-24	
EPA 200.8	Arsenic	mg/L	0.0294	<0.00500	0.0250	118	70 - 130	X403180 - X4A0148-01	25-Jan-24	D1
EPA 200.8	Selenium	mg/L	0.0234	<0.00100	0.0250	92.6	70 - 130	X403180 - X4A0257-01	24-Jan-24	
EPA 200.8	Selenium	mg/L	0.0299	<0.00500	0.0250	120	70 - 130	X403180 - X4A0148-01	25-Jan-24	D1
EPA 200.8	Thallium	mg/L	0.0225	<0.000200	0.0250	90.1	70 - 130	X403180 - X4A0257-01	24-Jan-24	
EPA 200.8	Thallium	mg/L	0.0286	<0.00100	0.0250	114	70 - 130	X403180 - X4A0148-01	25-Jan-24	D1
EPA 200.8	Uranium	mg/L	0.0297	0.00423	0.0250	102	70 - 130	X403180 - X4A0257-01	24-Jan-24	
EPA 200.8	Uranium	mg/L	0.0335	0.00345	0.0250	120	70 - 130	X403180 - X4A0148-01	25-Jan-24	D1
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00202	<0.000200	0.00200	101	70 - 130	X403062 - X4A0148-01	22-Jan-24	
EPA 245.1	Mercury	mg/L	0.00207	<0.000200	0.00200	103	70 - 130	X403062 - X4A0166-01	22-Jan-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.100	<0.0050	0.100	100	79 - 121	X403129 - X4A0062-01	19-Jan-24	R2B
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X403028 - X4A0148-01	17-Jan-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X403028 - X4A0148-02	17-Jan-24	
EPA 350.1	Ammonia as N	mg/L	0.995	<0.030	1.00	98.0	90 - 110	X403019 - X4A0148-01	16-Jan-24	
EPA 350.1	Ammonia as N	mg/L	0.933	<0.030	1.00	92.0	90 - 110	X403019 - X4A0148-02	16-Jan-24	
OIA 1677	Cyanide (WAD)	mg/L	0.100	<0.0050	0.100	97.0	82 - 118	X403005 - X4A0062-01	22-Jan-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.21	<0.20	3.00	103	90 - 110	X402128 - X4A0148-06	10-Jan-24	
EPA 300.0	Chloride	mg/L	3.17	<0.20	3.00	102	90 - 110	X402128 - X4A0148-07	10-Jan-24	
EPA 300.0	Fluoride	mg/L	2.07	<0.100	2.00	102	90 - 110	X402128 - X4A0148-06	10-Jan-24	
EPA 300.0	Fluoride	mg/L	2.04	<0.100	2.00	101	90 - 110	X402128 - X4A0148-07	10-Jan-24	
EPA 300.0	Nitrate as N	mg/L	2.05	<0.050	2.00	103	90 - 110	X402128 - X4A0148-06	10-Jan-24	
EPA 300.0	Nitrate as N	mg/L	2.04	<0.050	2.00	101	90 - 110	X402128 - X4A0148-07	10-Jan-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.16	<0.100	4.00	104	90 - 110	X402128 - X4A0148-06	10-Jan-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.13	<0.100	4.00	103	90 - 110	X402128 - X4A0148-07	10-Jan-24	
EPA 300.0	Nitrite as N	mg/L	2.11	<0.050	2.00	105	90 - 110	X402128 - X4A0148-06	10-Jan-24	
EPA 300.0	Nitrite as N	mg/L	2.09	<0.050	2.00	104	90 - 110	X402128 - X4A0148-07	10-Jan-24	
EPA 300.0	Sulfate as SO4	mg/L	11.1	0.50	10.0	106	90 - 110	X402128 - X4A0148-06	10-Jan-24	

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Work Order: **X4A0148**
Reported: 25-Jan-24 13:32

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	10.7	<0.30	10.0	104	90 - 110	X402128 - X4A0148-07	10-Jan-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	38.8	39.7	20.0	2.0	20	94	X403056 - X4A0146-01	
EPA 200.7	Magnesium	mg/L	26.4	27.3	20.0	3.2	20	100	X403056 - X4A0146-01	
EPA 200.7	Potassium	mg/L	20.6	21.0	20.0	1.9	20	97.1	X403056 - X4A0146-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.968	0.932	1.00	3.7	20	96.8	X401134 - X4A0062-01	
EPA 200.7	Barium	mg/L	1.07	1.05	1.00	1.8	20	103	X401134 - X4A0062-01	
EPA 200.7	Beryllium	mg/L	0.992	0.975	1.00	1.7	20	99.2	X401134 - X4A0062-01	
EPA 200.7	Boron	mg/L	1.05	1.04	1.00	1.6	20	102	X401134 - X4A0062-01	
EPA 200.7	Cadmium	mg/L	1.04	1.03	1.00	0.8	20	104	X401134 - X4A0062-01	
EPA 200.7	Calcium	mg/L	66.4	64.8	20.0	2.4	20	101	X401134 - X4A0062-01	
EPA 200.7	Chromium	mg/L	1.02	1.01	1.00	0.9	20	102	X401134 - X4A0062-01	
EPA 200.7	Cobalt	mg/L	0.977	0.972	1.00	0.5	20	97.7	X401134 - X4A0062-01	
EPA 200.7	Copper	mg/L	1.01	1.00	1.00	0.7	20	101	X401134 - X4A0062-01	
EPA 200.7	Iron	mg/L	10.3	10.1	10.0	1.6	20	103	X401134 - X4A0062-01	
EPA 200.7	Lead	mg/L	0.988	0.983	1.00	0.5	20	98.8	X401134 - X4A0062-01	
EPA 200.7	Lithium	mg/L	1.01	0.987	1.00	2.5	20	101	X401134 - X4A0062-01	
EPA 200.7	Magnesium	mg/L	31.1	30.6	20.0	1.7	20	101	X401134 - X4A0062-01	
EPA 200.7	Manganese	mg/L	1.01	0.993	1.00	2.1	20	99.3	X401134 - X4A0062-01	
EPA 200.7	Molybdenum	mg/L	0.974	0.964	1.00	1.1	20	97.4	X401134 - X4A0062-01	
EPA 200.7	Nickel	mg/L	0.988	0.982	1.00	0.6	20	98.8	X401134 - X4A0062-01	
EPA 200.7	Potassium	mg/L	22.8	22.5	20.0	1.7	20	102	X401134 - X4A0062-01	
EPA 200.7	Silver	mg/L	0.0527	0.0517	0.0500	1.9	20	105	X401134 - X4A0062-01	
EPA 200.7	Sodium	mg/L	52.8	51.9	19.0	1.6	20	102	X401134 - X4A0062-01	
EPA 200.7	Vanadium	mg/L	1.05	1.05	1.00	0.3	20	105	X401134 - X4A0062-01	
EPA 200.7	Zinc	mg/L	1.01	1.00	1.00	0.4	20	101	X401134 - X4A0062-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00196	0.00202	0.00200	3.3	20	97.8	X403062 - X4A0148-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.113	0.100	0.100	12.2	11	113	X403129 - X4A0062-01	R2B
EPA 335.4	Cyanide (total)	mg/L	0.103	0.101	0.100	2.3	20	103	X403028 - X4A0148-01	
EPA 350.1	Ammonia as N	mg/L	1.00	0.995	1.00	1.0	20	99.0	X403019 - X4A0148-01	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	0.100	1.0	11	98.0	X403005 - X4A0062-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.28	3.21	3.00	2.1	20	105	X402128 - X4A0148-06	
EPA 300.0	Fluoride	mg/L	2.10	2.07	2.00	1.5	20	104	X402128 - X4A0148-06	
EPA 300.0	Nitrate as N	mg/L	2.08	2.05	2.00	1.5	20	104	X402128 - X4A0148-06	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.22	4.16	4.00	1.5	20	106	X402128 - X4A0148-06	
EPA 300.0	Nitrite as N	mg/L	2.14	2.11	2.00	1.5	20	107	X402128 - X4A0148-06	
EPA 300.0	Sulfate as SO4	mg/L	11.2	11.1	10.0	1.2	20	107	X402128 - X4A0148-06	

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Work Order: **X4A0148**
Reported: 25-Jan-24 13:32

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.
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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Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

Client Sample ID: **RB-0220**
SVL Sample ID: **X4B0301-01 (Ground Water)**

Sampled: 20-Feb-24 11:08
Received: 21-Feb-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	0.399	mg/L	0.100	0.069		X409124	NMS	03/01/24 12:53	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X409124	NMS	03/01/24 12:53	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X409124	NMS	03/04/24 11:25	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		03/04/24 12:55	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X409182	NMS	03/04/24 12:55	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X409182	NMS	03/04/24 12:55	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X409182	NMS	03/04/24 12:55	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X409182	NMS	03/04/24 12:55	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X409182	NMS	03/04/24 12:55	
EPA 200.7	**Calcium**	0.164	mg/L	0.100	0.069		X409182	NMS	03/04/24 12:55	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X409182	NMS	03/04/24 12:55	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X409182	NMS	03/04/24 12:55	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X409182	NMS	03/04/24 12:55	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X409182	NMS	03/04/24 12:55	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X409182	NMS	03/04/24 12:55	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X409182	NMS	03/04/24 12:55	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X409182	NMS	03/04/24 12:55	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X409182	NMS	03/04/24 12:55	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X409182	NMS	03/04/24 12:55	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X409182	NMS	03/04/24 12:55	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X409182	NMS	03/04/24 12:55	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X409182	NMS	03/04/24 12:55	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X409182	NMS	03/04/24 12:55	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X409182	NMS	03/04/24 12:55	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X409182	NMS	03/04/24 12:55	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X408194	SMU	02/26/24 15:57	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X408194	SMU	02/26/24 15:57	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X408194	SMU	02/26/24 15:57	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X408194	SMU	02/26/24 15:57	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X408194	SMU	02/26/24 15:57	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X409062	MAC	03/01/24 20:42	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X410024	DD	03/04/24 13:45	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X409004	DD	02/29/24 13:04	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X409163	DD	03/01/24 11:42	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X410025	DD	03/05/24 14:57	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X408182	MWD	02/23/24 11:14	
SM 2320 B	**Total Alkalinity**	7.6	mg/L as CaCO3	1.0			X408158	MWD	02/22/24 16:54	
SM 2320 B	**Bicarbonate**	7.6	mg/L as CaCO3	1.0			X408158	MWD	02/22/24 16:54	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X408158	MWD	02/22/24 16:54	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X408158	MWD	02/22/24 16:54	
SM 2540 C	Total Diss. Solids	< 10	mg/L	10			X408140	TJL	02/23/24 14:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X408141	TJL	02/27/24 14:50	
SM 4500 H B	**pH @19.3°C**	7.3	pH Units				X408158	MWD	02/22/24 16:54	H5

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

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Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

Client Sample ID: **RB-0220**
SVL Sample ID: **X4B0301-01 (Ground Water)**

Sampled: 20-Feb-24 11:08
Received: 21-Feb-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	0.33	mg/L	0.20	0.02		X408135	RS	02/21/24 15:06	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X408135	RS	02/21/24 15:06	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X408135	RS	02/21/24 15:06	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X408135	RS	02/21/24 15:06	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X408135	RS	02/21/24 15:06	
EPA 300.0	**Sulfate as SO4**	1.10	mg/L	0.30	0.18		X408135	RS	02/21/24 15:06	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.04 meq/L Anion Sum: 0.19 meq/L C/A Balance: -66.05 % Calculated TDS: 6 TDS/cTDS: 0.00

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

Kathryn Salter
Project Manager

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Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

Client Sample ID: **GVMW-115G**
SVL Sample ID: **X4B0301-03 (Ground Water)**

Sampled: 20-Feb-24 10:31
Received: 21-Feb-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	64.2	mg/L	0.100	0.069		X409124	NMS	03/01/24 13:07	
EPA 200.7	**Magnesium**	34.9	mg/L	0.500	0.090		X409124	NMS	03/01/24 13:07	
EPA 200.7	**Potassium**	2.47	mg/L	0.50	0.18		X409124	NMS	03/04/24 11:33	
SM 2340 B	**Hardness (as CaCO3)**	327	mg/L	2.31	0.543		N/A		03/01/24 13:07	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	1.24	mg/L	0.080	0.054		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Barium**	0.0148	mg/L	0.0020	0.0019		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Beryllium**	0.0681	mg/L	0.00200	0.00080		X409182	NMS	03/04/24 13:02	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Cadmium**	0.0033	mg/L	0.0020	0.0016		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Calcium**	70.0	mg/L	0.100	0.069		X409182	NMS	03/04/24 13:02	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Cobalt**	0.116	mg/L	0.0060	0.0046		X409182	NMS	03/04/24 13:02	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Iron**	33.5	mg/L	0.100	0.056		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Lead**	0.0807	mg/L	0.0075	0.0049		X409182	NMS	03/04/24 13:02	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Magnesium**	36.9	mg/L	0.500	0.090		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Manganese**	2.22	mg/L	0.0080	0.0034		X409182	NMS	03/04/24 13:02	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Nickel**	0.235	mg/L	0.0100	0.0048		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Potassium**	2.65	mg/L	0.50	0.18		X409182	NMS	03/04/24 13:02	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Sodium**	14.7	mg/L	0.50	0.12		X409182	NMS	03/04/24 13:02	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Zinc**	2.10	mg/L	0.0100	0.0054		X409182	NMS	03/04/24 13:02	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X408194	SMU	02/26/24 16:07	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X408194	SMU	02/26/24 16:07	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X408194	SMU	02/26/24 16:07	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X408194	SMU	02/26/24 16:07	
EPA 200.8	**Uranium**	0.00829	mg/L	0.000100	0.000052		X408194	SMU	02/26/24 16:07	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X409062	MAC	03/01/24 20:46	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X410024	DD	03/04/24 13:49	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X409004	DD	02/29/24 13:10	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X409163	DD	03/01/24 11:46	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X410025	DD	03/05/24 15:00	
SM 2310 B	**Acidity to pH 8.3**	63.2	mg/L as CaCO3	10.0			X408182	MWD	02/23/24 11:14	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X408158	MWD	02/22/24 17:05	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X408158	MWD	02/22/24 17:05	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X408158	MWD	02/22/24 17:05	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X408158	MWD	02/22/24 17:05	
SM 2540 C	**Total Diss. Solids**	698	mg/L	10			X408140	TJL	02/23/24 14:30	
SM 2540 D	**Total Susp. Solids**	10.0	mg/L	5.0			X408141	TJL	02/27/24 14:50	
SM 4500 H B	**pH @19.4°C**	3.7	pH Units				X408158	MWD	02/22/24 17:05	H5,R2B

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

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Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

Client Sample ID: **GVMW-115G**
SVL Sample ID: **X4B0301-03 (Ground Water)**

Sampled: 20-Feb-24 10:31
Received: 21-Feb-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	0.67	mg/L	0.20	0.02		X408135	RS	02/21/24 16:36	
EPA 300.0	**Fluoride**	0.721	mg/L	0.100	0.017		X408135	RS	02/21/24 16:36	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X408135	RS	02/21/24 16:36	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X408135	RS	02/21/24 16:36	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X408135	RS	02/21/24 16:36	
EPA 300.0	**Sulfate as SO4**	417	mg/L	3.00	1.80	10	X408135	RS	02/21/24 16:54	D2
Cation/Anion Balance and TDS Ratios										

Cation Sum: 8.27 meq/L Anion Sum: 8.76 meq/L C/A Balance: -2.91 % Calculated TDS: 539 TDS/cTDS: 1.30

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

Kathryn Salter
Project Manager

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Victor, CO 80860

Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

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	X409124	01-Mar-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X409124	01-Mar-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X409124	04-Mar-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X409182	04-Mar-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X409182	04-Mar-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X409182	04-Mar-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X409182	04-Mar-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X409182	04-Mar-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X409182	04-Mar-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X409182	04-Mar-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X409182	04-Mar-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X409182	04-Mar-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X409182	04-Mar-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X409182	04-Mar-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X409182	04-Mar-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X409182	04-Mar-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X409182	04-Mar-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X409182	04-Mar-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X409182	04-Mar-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X409182	04-Mar-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X409182	04-Mar-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X409182	04-Mar-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X409182	04-Mar-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X409182	04-Mar-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X408194	26-Feb-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X408194	26-Feb-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X408194	26-Feb-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X408194	26-Feb-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X408194	26-Feb-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X409062	01-Mar-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X410024	04-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X409004	29-Feb-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X409004	29-Feb-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X409163	01-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X410025	05-Mar-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X408182	23-Feb-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X408158	22-Feb-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X408158	22-Feb-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X408158	22-Feb-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X408158	22-Feb-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X408140	23-Feb-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X408141	27-Feb-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X408135	21-Feb-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X408135	21-Feb-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X408135	21-Feb-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X408135	21-Feb-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X408135	21-Feb-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X408135	21-Feb-24	

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Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

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	X409124	01-Mar-24	
EPA 200.7	Magnesium	mg/L	19.9	20.0	99.7	85 - 115	X409124	01-Mar-24	
EPA 200.7	Potassium	mg/L	20.3	20.0	101	85 - 115	X409124	04-Mar-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.966	1.00	96.6	85 - 115	X409182	04-Mar-24	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Beryllium	mg/L	1.06	1.00	106	85 - 115	X409182	04-Mar-24	
EPA 200.7	Boron	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Cadmium	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Calcium	mg/L	20.2	20.0	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Chromium	mg/L	1.02	1.00	102	85 - 115	X409182	04-Mar-24	
EPA 200.7	Cobalt	mg/L	0.995	1.00	99.5	85 - 115	X409182	04-Mar-24	
EPA 200.7	Copper	mg/L	1.02	1.00	102	85 - 115	X409182	04-Mar-24	
EPA 200.7	Iron	mg/L	10.3	10.0	103	85 - 115	X409182	04-Mar-24	
EPA 200.7	Lead	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Lithium	mg/L	1.00	1.00	100	85 - 115	X409182	04-Mar-24	
EPA 200.7	Magnesium	mg/L	20.0	20.0	99.8	85 - 115	X409182	04-Mar-24	
EPA 200.7	Manganese	mg/L	1.03	1.00	103	85 - 115	X409182	04-Mar-24	
EPA 200.7	Molybdenum	mg/L	1.03	1.00	103	85 - 115	X409182	04-Mar-24	
EPA 200.7	Nickel	mg/L	1.00	1.00	100	85 - 115	X409182	04-Mar-24	
EPA 200.7	Potassium	mg/L	20.7	20.0	103	85 - 115	X409182	04-Mar-24	
EPA 200.7	Silver	mg/L	0.0492	0.0500	98.4	85 - 115	X409182	04-Mar-24	
EPA 200.7	Sodium	mg/L	19.2	19.0	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Vanadium	mg/L	1.04	1.00	104	85 - 115	X409182	04-Mar-24	
EPA 200.7	Zinc	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.8	Antimony	mg/L	0.0243	0.0250	97.2	85 - 115	X408194	26-Feb-24	
EPA 200.8	Arsenic	mg/L	0.0245	0.0250	97.9	85 - 115	X408194	26-Feb-24	
EPA 200.8	Selenium	mg/L	0.0238	0.0250	95.1	85 - 115	X408194	26-Feb-24	
EPA 200.8	Thallium	mg/L	0.0247	0.0250	98.8	85 - 115	X408194	26-Feb-24	
EPA 200.8	Uranium	mg/L	0.0244	0.0250	97.7	85 - 115	X408194	26-Feb-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00189	0.00200	94.3	85 - 115	X409062	01-Mar-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	0.100	97.0	90 - 110	X410024	04-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X409004	29-Feb-24	
EPA 335.4	Cyanide (total)	mg/L	0.0950	0.100	95.0	90 - 110	X409004	29-Feb-24	
EPA 350.1	Ammonia as N	mg/L	0.979	1.00	97.9	90 - 110	X409163	01-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0910	0.100	91.0	90 - 110	X410025	05-Mar-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1630	1640	99.1	95.4 - 104	X408182	23-Feb-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.80	9.93	98.7	96.4 - 105	X408158	22-Feb-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.1	99.3	99.8	96.4 - 105	X408158	22-Feb-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X408141	27-Feb-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.98	3.00	99.3	90 - 110	X408135	21-Feb-24	
EPA 300.0	Fluoride	mg/L	1.99	2.00	99.4	90 - 110	X408135	21-Feb-24	
EPA 300.0	Nitrate as N	mg/L	2.01	2.00	100	90 - 110	X408135	21-Feb-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.51	4.50	100	90 - 110	X408135	21-Feb-24	
EPA 300.0	Nitrite as N	mg/L	2.50	2.50	100	90 - 110	X408135	21-Feb-24	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X408135	21-Feb-24	

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Work Order: **X4B0301**
Reported: 06-Mar-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 CaCO3	<10.0	<10.0	UDL	20	X408182 - X4B0224-01	23-Feb-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0	<1.0	UDL	20	X408158 - X4B0301-03	22-Feb-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X408158 - X4B0301-03	22-Feb-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X408158 - X4B0301-03	22-Feb-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X408158 - X4B0301-03	22-Feb-24	
SM 2540 C	Total Diss. Solids	mg/L	265	280	5.5	10	X408140 - X4B0300-02	23-Feb-24	
SM 2540 C	Total Diss. Solids	mg/L	631	641	1.6	10	X408140 - X4B0301-02	23-Feb-24	
SM 2540 D	Total Susp. Solids	mg/L	7.0	7.0	0.0	10	X408141 - X4B0301-02	27-Feb-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X408141 - X4B0300-02	27-Feb-24	
SM 4500 H B	pH @19.4°C	pH Units	3.5	3.7	5.0	20	X408158 - X4B0301-03	22-Feb-24	R2B

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	70.4	50.4	20.0	100	70 - 130	X409124 - X4B0284-01	01-Mar-24	
EPA 200.7	Calcium	mg/L	57.8	38.1	20.0	98	70 - 130	X409124 - X4B0322-02	01-Mar-24	
EPA 200.7	Magnesium	mg/L	26.0	5.91	20.0	101	70 - 130	X409124 - X4B0284-01	01-Mar-24	
EPA 200.7	Magnesium	mg/L	24.0	4.46	20.0	97.9	70 - 130	X409124 - X4B0322-02	01-Mar-24	
EPA 200.7	Potassium	mg/L	38.2	18.3	20.0	99.3	70 - 130	X409124 - X4B0284-01	04-Mar-24	
EPA 200.7	Potassium	mg/L	32.8	13.3	20.0	97.4	70 - 130	X409124 - X4B0322-02	04-Mar-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.973	<0.080	1.00	97.3	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Aluminum	mg/L	2.27	1.23	1.00	104	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Barium	mg/L	1.03	<0.0020	1.00	103	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Barium	mg/L	1.04	0.0145	1.00	103	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Beryllium	mg/L	1.06	<0.00200	1.00	106	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Beryllium	mg/L	1.21	0.0674	1.00	114	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	102	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Boron	mg/L	1.08	<0.0400	1.00	107	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Cadmium	mg/L	1.01	<0.0020	1.00	101	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Cadmium	mg/L	1.09	0.0032	1.00	109	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Calcium	mg/L	20.5	0.164	20.0	102	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Calcium	mg/L	91.3	70.1	20.0	106	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Chromium	mg/L	1.01	<0.0060	1.00	101	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Chromium	mg/L	1.09	<0.0060	1.00	109	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Cobalt	mg/L	0.989	<0.0060	1.00	98.9	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Cobalt	mg/L	1.18	0.118	1.00	106	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Copper	mg/L	0.986	<0.0100	1.00	98.6	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Copper	mg/L	1.12	<0.0100	1.00	112	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Iron	mg/L	10.4	<0.100	10.0	104	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Iron	mg/L	44.2	33.6	10.0	106	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Lead	mg/L	1.00	<0.0075	1.00	100	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Lead	mg/L	1.16	0.0816	1.00	108	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Lithium	mg/L	1.04	<0.040	1.00	104	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Lithium	mg/L	1.11	<0.040	1.00	108	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Magnesium	mg/L	20.4	<0.500	20.0	102	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Magnesium	mg/L	58.2	37.3	20.0	105	70 - 130	X409182 - X4B0301-02	04-Mar-24	

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Work Order: **X4B0301**
Reported: 06-Mar-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	Manganese	mg/L	1.05	<0.0080	1.00	105	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Manganese	mg/L	3.38	2.22	1.00	117	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Molybdenum	mg/L	1.00	<0.0080	1.00	100	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Molybdenum	mg/L	1.10	<0.0080	1.00	110	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Nickel	mg/L	0.999	<0.0100	1.00	99.3	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Nickel	mg/L	1.30	0.238	1.00	106	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Potassium	mg/L	21.2	<0.50	20.0	105	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Potassium	mg/L	24.0	2.59	20.0	107	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Silver	mg/L	0.0506	<0.0050	0.0500	101	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Silver	mg/L	0.0512	<0.0050	0.0500	102	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Sodium	mg/L	19.6	<0.50	19.0	103	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Sodium	mg/L	34.4	14.7	19.0	104	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Vanadium	mg/L	1.12	<0.0050	1.00	112	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Zinc	mg/L	1.02	<0.0100	1.00	102	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Zinc	mg/L	3.12	2.12	1.00	101	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.8	Antimony	mg/L	0.0238	<0.00100	0.0250	95.3	70 - 130	X408194 - X4B0301-01	26-Feb-24	
EPA 200.8	Antimony	mg/L	0.0283	<0.00100	0.0250	113	70 - 130	X408194 - X4B0310-10	26-Feb-24	
EPA 200.8	Arsenic	mg/L	0.0240	<0.00100	0.0250	96.2	70 - 130	X408194 - X4B0301-01	26-Feb-24	
EPA 200.8	Arsenic	mg/L	0.0289	<0.00100	0.0250	114	70 - 130	X408194 - X4B0310-10	26-Feb-24	
EPA 200.8	Selenium	mg/L	0.0241	<0.00100	0.0250	96.3	70 - 130	X408194 - X4B0301-01	26-Feb-24	
EPA 200.8	Selenium	mg/L	0.0291	<0.00100	0.0250	113	70 - 130	X408194 - X4B0310-10	26-Feb-24	
EPA 200.8	Thallium	mg/L	0.0245	<0.000200	0.0250	98.0	70 - 130	X408194 - X4B0301-01	26-Feb-24	
EPA 200.8	Thallium	mg/L	0.0262	<0.000200	0.0250	105	70 - 130	X408194 - X4B0310-10	26-Feb-24	
EPA 200.8	Uranium	mg/L	0.0245	<0.000100	0.0250	98.0	70 - 130	X408194 - X4B0301-01	26-Feb-24	
EPA 200.8	Uranium	mg/L	0.0384	0.0114	0.0250	108	70 - 130	X408194 - X4B0310-10	26-Feb-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00189	<0.000200	0.00200	94.3	70 - 130	X409062 - X4B0268-01	01-Mar-24	
EPA 245.1	Mercury	mg/L	0.00199	<0.000200	0.00200	99.2	70 - 130	X409062 - X4B0301-01	01-Mar-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.102	<0.0050	0.100	102	79 - 121	X410024 - X4B0274-01	04-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	0.100	<0.0050	0.100	100	90 - 110	X409004 - X4B0274-01	29-Feb-24	
EPA 335.4	Cyanide (total)	mg/L	0.0988	<0.0050	0.100	98.8	90 - 110	X409004 - X4B0229-02	29-Feb-24	
EPA 350.1	Ammonia as N	mg/L	1.09	<0.030	1.00	109	90 - 110	X409163 - X4B0301-01	01-Mar-24	
EPA 350.1	Ammonia as N	mg/L	1.04	<0.030	1.00	101	90 - 110	X409163 - X4B0301-02	01-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0960	<0.0050	0.100	92.0	82 - 118	X410025 - X4B0274-01	05-Mar-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.34	0.33	3.00	100	90 - 110	X408135 - X4B0301-01	21-Feb-24	
EPA 300.0	Chloride	mg/L	4.27	1.30	3.00	99.2	90 - 110	X408135 - X4B0322-01	21-Feb-24	
EPA 300.0	Fluoride	mg/L	2.04	<0.100	2.00	101	90 - 110	X408135 - X4B0301-01	21-Feb-24	
EPA 300.0	Fluoride	mg/L	2.00	<0.100	2.00	98.7	90 - 110	X408135 - X4B0322-01	21-Feb-24	
EPA 300.0	Nitrate as N	mg/L	2.03	<0.050	2.00	102	90 - 110	X408135 - X4B0301-01	21-Feb-24	
EPA 300.0	Nitrate as N	mg/L	2.23	0.244	2.00	99.5	90 - 110	X408135 - X4B0322-01	21-Feb-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.09	<0.100	4.00	102	90 - 110	X408135 - X4B0301-01	21-Feb-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.26	0.244	4.00	100	90 - 110	X408135 - X4B0322-01	21-Feb-24	
EPA 300.0	Nitrite as N	mg/L	2.06	<0.050	2.00	103	90 - 110	X408135 - X4B0301-01	21-Feb-24	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X408135 - X4B0322-01	21-Feb-24	
EPA 300.0	Sulfate as SO4	mg/L	11.5	1.10	10.0	104	90 - 110	X408135 - X4B0301-01	21-Feb-24	

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Work Order: **X4B0301**
Reported: 06-Mar-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	Sulfate as SO4	mg/L	19.5	9.47	10.0	100	90 - 110	X408135 - X4B0322-01	21-Feb-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	71.9	70.4	20.0	2.0	20	107	X409124 - X4B0284-01	
EPA 200.7	Magnesium	mg/L	26.6	26.0	20.0	2.4	20	104	X409124 - X4B0284-01	
EPA 200.7	Potassium	mg/L	38.8	38.2	20.0	1.6	20	102	X409124 - X4B0284-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	0.973	1.00	4.2	20	101	X409182 - X4B0301-01	
EPA 200.7	Barium	mg/L	1.06	1.03	1.00	2.8	20	106	X409182 - X4B0301-01	
EPA 200.7	Beryllium	mg/L	1.06	1.06	1.00	0.6	20	106	X409182 - X4B0301-01	
EPA 200.7	Boron	mg/L	1.06	1.02	1.00	3.5	20	106	X409182 - X4B0301-01	
EPA 200.7	Cadmium	mg/L	1.04	1.01	1.00	2.9	20	104	X409182 - X4B0301-01	
EPA 200.7	Calcium	mg/L	20.8	20.5	20.0	1.6	20	103	X409182 - X4B0301-01	
EPA 200.7	Chromium	mg/L	1.05	1.01	1.00	4.2	20	105	X409182 - X4B0301-01	
EPA 200.7	Cobalt	mg/L	1.02	0.989	1.00	2.9	20	102	X409182 - X4B0301-01	
EPA 200.7	Copper	mg/L	1.02	0.986	1.00	3.5	20	102	X409182 - X4B0301-01	
EPA 200.7	Iron	mg/L	10.5	10.4	10.0	1.2	20	105	X409182 - X4B0301-01	
EPA 200.7	Lead	mg/L	1.03	1.00	1.00	2.6	20	103	X409182 - X4B0301-01	
EPA 200.7	Lithium	mg/L	1.04	1.04	1.00	0.2	20	104	X409182 - X4B0301-01	
EPA 200.7	Magnesium	mg/L	21.0	20.4	20.0	2.9	20	105	X409182 - X4B0301-01	
EPA 200.7	Manganese	mg/L	1.06	1.05	1.00	0.5	20	106	X409182 - X4B0301-01	
EPA 200.7	Molybdenum	mg/L	1.04	1.00	1.00	3.2	20	104	X409182 - X4B0301-01	
EPA 200.7	Nickel	mg/L	1.03	0.999	1.00	2.9	20	102	X409182 - X4B0301-01	
EPA 200.7	Potassium	mg/L	21.5	21.2	20.0	1.2	20	106	X409182 - X4B0301-01	
EPA 200.7	Silver	mg/L	0.0512	0.0506	0.0500	1.2	20	102	X409182 - X4B0301-01	
EPA 200.7	Sodium	mg/L	19.9	19.6	19.0	1.4	20	105	X409182 - X4B0301-01	
EPA 200.7	Vanadium	mg/L	1.06	1.01	1.00	4.5	20	106	X409182 - X4B0301-01	
EPA 200.7	Zinc	mg/L	1.05	1.02	1.00	2.9	20	105	X409182 - X4B0301-01	
EPA 200.8	Antimony	mg/L	0.0238	0.0238	0.0250	0.1	20	95.2	X408194 - X4B0301-01	
EPA 200.8	Arsenic	mg/L	0.0245	0.0240	0.0250	1.8	20	97.9	X408194 - X4B0301-01	
EPA 200.8	Selenium	mg/L	0.0237	0.0241	0.0250	1.5	20	94.8	X408194 - X4B0301-01	
EPA 200.8	Thallium	mg/L	0.0246	0.0245	0.0250	0.5	20	98.5	X408194 - X4B0301-01	
EPA 200.8	Uranium	mg/L	0.0244	0.0245	0.0250	0.4	20	97.5	X408194 - X4B0301-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00171	0.00189	0.00200	10.1	20	85.2	X409062 - X4B0268-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	0.102	0.100	4.0	11	98.0	X410024 - X4B0274-01	
EPA 335.4	Cyanide (total)	mg/L	0.0978	0.100	0.100	2.6	20	97.8	X409004 - X4B0274-01	
EPA 350.1	Ammonia as N	mg/L	1.03	1.09	1.00	5.4	20	103	X409163 - X4B0301-01	
OIA 1677	Cyanide (WAD)	mg/L	0.0980	0.0960	0.100	2.1	11	94.0	X410025 - X4B0274-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.31	3.34	3.00	0.9	20	99.2	X408135 - X4B0301-01	
EPA 300.0	Fluoride	mg/L	2.02	2.04	2.00	0.8	20	99.8	X408135 - X4B0301-01	
EPA 300.0	Nitrate as N	mg/L	2.01	2.03	2.00	1.4	20	100	X408135 - X4B0301-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.06	4.09	4.00	0.8	20	101	X408135 - X4B0301-01	
EPA 300.0	Nitrite as N	mg/L	2.05	2.06	2.00	0.3	20	103	X408135 - X4B0301-01	

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Work Order: **X4B0301**
Reported: 06-Mar-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
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO4	mg/L	11.4	11.5	10.0	0.6	20	103	X408135 - X4B0301-01	

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Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

Notes and Definitions

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.
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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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0092**
Reported: 22-Mar-24 10:56

Client Sample ID: **GVMW-115 G**
SVL Sample ID: **X4C0092-02 (Ground Water)**

Sampled: 06-Mar-24 11:24
Received: 07-Mar-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	64.8	mg/L	0.100	0.069		X411213	SMU	03/19/24 16:42	
EPA 200.7	**Magnesium**	35.5	mg/L	0.500	0.090		X411213	SMU	03/19/24 16:42	
EPA 200.7	**Potassium**	2.45	mg/L	0.50	0.18		X411213	SMU	03/19/24 16:42	
sm 2340B	**Hardness (as CaCO3)**	297	mg/L	2.31	0.543		N/A		03/19/24 16:42	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	1.08	mg/L	0.080	0.054		X411026	NMS	03/21/24 13:49	
EPA 200.7	**Barium**	0.0126	mg/L	0.0020	0.0019		X411026	NMS	03/21/24 13:49	
EPA 200.7	**Beryllium**	0.0638	mg/L	0.00200	0.00080		X411026	NMS	03/21/24 13:49	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X411026	NMS	03/21/24 13:49	
EPA 200.7	**Cadmium**	0.0034	mg/L	0.0020	0.0016		X411026	NMS	03/21/24 13:49	
EPA 200.7	**Calcium**	63.9	mg/L	0.100	0.069		X411026	NMS	03/21/24 13:49	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X411026	NMS	03/21/24 13:49	
EPA 200.7	**Cobalt**	0.115	mg/L	0.0060	0.0046		X411026	NMS	03/21/24 13:49	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X411026	NMS	03/21/24 13:49	
EPA 200.7	**Iron**	31.3	mg/L	0.100	0.056		X411026	NMS	03/21/24 13:49	
EPA 200.7	**Lead**	0.0754	mg/L	0.0075	0.0049		X411026	NMS	03/21/24 13:49	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X411026	NMS	03/21/24 13:49	
EPA 200.7	**Magnesium**	32.7	mg/L	0.500	0.090		X411026	NMS	03/21/24 13:49	
EPA 200.7	**Manganese**	1.95	mg/L	0.0080	0.0034		X411026	NMS	03/21/24 13:49	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X411026	NMS	03/21/24 13:49	
EPA 200.7	**Nickel**	0.217	mg/L	0.0100	0.0048		X411026	NMS	03/21/24 13:49	
EPA 200.7	**Potassium**	2.56	mg/L	0.50	0.18		X411026	NMS	03/21/24 13:49	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X411026	NMS	03/21/24 13:49	
EPA 200.7	**Sodium**	13.8	mg/L	0.50	0.12		X411026	NMS	03/21/24 13:49	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X411026	NMS	03/21/24 13:49	
EPA 200.7	**Zinc**	1.86	mg/L	0.0100	0.0054		X411026	NMS	03/21/24 13:49	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X410268	SMU	03/18/24 18:25	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X410268	SMU	03/18/24 18:25	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X410268	SMU	03/18/24 18:25	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X410268	SMU	03/19/24 10:32	
EPA 200.8	**Uranium**	0.00983	mg/L	0.000100	0.000052		X410268	SMU	03/18/24 18:25	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X411180	MAC	03/15/24 13:58	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X411005	DD	03/12/24 12:45	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X411099	DD	03/14/24 10:20	
EPA 350.1	**Ammonia as N**	0.031	mg/L	0.030	0.013		X411070	DD	03/13/24 13:12	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X412008	DD	03/20/24 10:43	
SM 2310 B	**Acidity to pH 8.3**	79.0	mg/L as CaCO3	10.0			X412064	MWD	03/19/24 08:55	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X410252	MWD	03/11/24 14:45	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X410252	MWD	03/11/24 14:45	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X410252	MWD	03/11/24 14:45	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X410252	MWD	03/11/24 14:45	
SM 2540 C	**Total Diss. Solids**	608	mg/L	10			X410237	TJL	03/12/24 15:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X410239	TJL	03/12/24 17:00	
SM 4500 H B	**pH @19.3°C**	3.6	pH Units				X410252	MWD	03/11/24 14:45	H5,R2B

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0092**
Reported: 22-Mar-24 10:56

Client Sample ID: **GVMW-115 G**
SVL Sample ID: **X4C0092-02 (Ground Water)**

Sampled: 06-Mar-24 11:24
Received: 07-Mar-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	0.68	mg/L	0.20	0.02		X410194	KAG	03/07/24 14:53	
EPA 300.0	**Fluoride**	0.678	mg/L	0.100	0.017		X410194	KAG	03/07/24 14:53	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X410194	KAG	03/07/24 14:53	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X410194	KAG	03/07/24 14:53	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X410194	KAG	03/07/24 14:53	
EPA 300.0	**Sulfate as SO4**	406	mg/L	3.00	1.80	10	X410194	KAG	03/07/24 15:11	D2
Cation/Anion Balance and TDS Ratios										

Cation Sum: 8.12 meq/L Anion Sum: 8.53 meq/L C/A Balance: -2.45 % Calculated TDS: 522 TDS/cTDS: 1.16

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

Kathryn Salter
Project Manager

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0092**
Reported: 22-Mar-24 10:56

Client Sample ID: **RB-0306**
SVL Sample ID: **X4C0092-04 (Ground Water)**

Sampled: 06-Mar-24 14:22
Received: 07-Mar-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X411213	SMU	03/19/24 16:59	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X411213	SMU	03/19/24 16:59	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X411213	SMU	03/19/24 16:59	
sm 2340B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		03/21/24 13:56	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X411026	NMS	03/21/24 13:56	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X411026	NMS	03/21/24 13:56	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X411026	NMS	03/21/24 13:56	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X411026	NMS	03/21/24 13:56	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X411026	NMS	03/21/24 13:56	
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X411026	NMS	03/21/24 13:56	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X411026	NMS	03/21/24 13:56	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X411026	NMS	03/21/24 13:56	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X411026	NMS	03/21/24 13:56	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X411026	NMS	03/21/24 13:56	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X411026	NMS	03/21/24 13:56	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X411026	NMS	03/21/24 13:56	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X411026	NMS	03/21/24 13:56	
EPA 200.7	**Manganese**	0.0110	mg/L	0.0080	0.0034		X411026	NMS	03/21/24 13:56	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X411026	NMS	03/21/24 13:56	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X411026	NMS	03/21/24 13:56	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X411026	NMS	03/21/24 13:56	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X411026	NMS	03/21/24 13:56	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X411026	NMS	03/21/24 13:56	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X411026	NMS	03/21/24 13:56	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X411026	NMS	03/21/24 13:56	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X410268	SMU	03/18/24 18:31	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X410268	SMU	03/18/24 18:31	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X410268	SMU	03/18/24 18:31	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X410268	SMU	03/19/24 10:37	
EPA 200.8	**Uranium**	0.000741	mg/L	0.000100	0.000052		X410268	SMU	03/18/24 18:31	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X411180	MAC	03/15/24 14:03	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X411005	DD	03/12/24 12:55	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X411099	DD	03/14/24 14:13	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X411070	DD	03/13/24 13:16	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X412008	DD	03/20/24 10:46	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X412064	MWD	03/19/24 08:55	
SM 2320 B	**Total Alkalinity**	1.0	mg/L as CaCO3	1.0			X410252	MWD	03/11/24 14:56	
SM 2320 B	**Bicarbonate**	1.0	mg/L as CaCO3	1.0			X410252	MWD	03/11/24 14:56	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X410252	MWD	03/11/24 14:56	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X410252	MWD	03/11/24 14:56	
SM 2540 C	Total Diss. Solids	< 10	mg/L	10			X410237	TJL	03/12/24 15:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X410239	TJL	03/12/24 17:00	
SM 4500 H B	**pH @19.2°C**	6.1	pH Units				X410252	MWD	03/11/24 14:56	H5

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

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

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0092**
Reported: 22-Mar-24 10:56

Client Sample ID: **RB-0306**
SVL Sample ID: **X4C0092-04 (Ground Water)**

Sampled: 06-Mar-24 14:22
Received: 07-Mar-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		X410194	KAG	03/07/24 13:21	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X410194	KAG	03/07/24 13:21	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X410194	KAG	03/07/24 13:21	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X410194	KAG	03/07/24 13:21	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X410194	KAG	03/07/24 13:21	
EPA 300.0	Sulfate as SO4	< 0.30	mg/L	0.30	0.18		X410194	KAG	03/07/24 13:21	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 0.03 meq/L Anion Sum: 0.03 meq/L C/A Balance: 8.73 % Calculated TDS: 1 TDS/cTDS: 0.00

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

Kathryn Salter
Project Manager

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0092**
Reported: 22-Mar-24 10:56

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	X411213	19-Mar-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X411213	19-Mar-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X411213	19-Mar-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X411026	21-Mar-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X411026	21-Mar-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X411026	21-Mar-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X411026	21-Mar-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X411026	21-Mar-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X411026	21-Mar-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X411026	21-Mar-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X411026	21-Mar-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X411026	21-Mar-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X411026	21-Mar-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X411026	21-Mar-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X411026	21-Mar-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X411026	21-Mar-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X411026	21-Mar-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X411026	21-Mar-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X411026	21-Mar-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X411026	21-Mar-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X411026	21-Mar-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X411026	21-Mar-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X411026	21-Mar-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X411026	21-Mar-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X410268	18-Mar-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X410268	18-Mar-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X410268	18-Mar-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X410268	19-Mar-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X410268	18-Mar-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X411180	15-Mar-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X411005	12-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X411099	14-Mar-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X411070	13-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X412008	20-Mar-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X412064	19-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X410252	11-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X410252	11-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X410252	11-Mar-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X410252	11-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X410237	12-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X410239	12-Mar-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X410194	07-Mar-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X410194	07-Mar-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X410194	07-Mar-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X410194	07-Mar-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X410194	07-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X410194	07-Mar-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0092**
Reported: 22-Mar-24 10:56

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	19.2	20.0	96	85 - 115	X411213	19-Mar-24	
EPA 200.7	Magnesium	mg/L	19.9	20.0	99.6	85 - 115	X411213	19-Mar-24	
EPA 200.7	Potassium	mg/L	18.8	20.0	94.1	85 - 115	X411213	19-Mar-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.952	1.00	95.2	85 - 115	X411026	21-Mar-24	
EPA 200.7	Barium	mg/L	0.911	1.00	91.1	85 - 115	X411026	21-Mar-24	
EPA 200.7	Beryllium	mg/L	1.05	1.00	105	85 - 115	X411026	21-Mar-24	
EPA 200.7	Boron	mg/L	0.960	1.00	96.0	85 - 115	X411026	21-Mar-24	
EPA 200.7	Cadmium	mg/L	0.972	1.00	97.2	85 - 115	X411026	21-Mar-24	
EPA 200.7	Calcium	mg/L	19.4	20.0	97.0	85 - 115	X411026	21-Mar-24	
EPA 200.7	Chromium	mg/L	0.966	1.00	96.6	85 - 115	X411026	21-Mar-24	
EPA 200.7	Cobalt	mg/L	0.955	1.00	95.5	85 - 115	X411026	21-Mar-24	
EPA 200.7	Copper	mg/L	0.959	1.00	95.9	85 - 115	X411026	21-Mar-24	
EPA 200.7	Iron	mg/L	9.84	10.0	98.4	85 - 115	X411026	21-Mar-24	
EPA 200.7	Lead	mg/L	0.967	1.00	96.7	85 - 115	X411026	21-Mar-24	
EPA 200.7	Lithium	mg/L	0.965	1.00	96.5	85 - 115	X411026	21-Mar-24	
EPA 200.7	Magnesium	mg/L	18.6	20.0	92.9	85 - 115	X411026	21-Mar-24	
EPA 200.7	Manganese	mg/L	0.978	1.00	97.8	85 - 115	X411026	21-Mar-24	
EPA 200.7	Molybdenum	mg/L	0.979	1.00	97.9	85 - 115	X411026	21-Mar-24	
EPA 200.7	Nickel	mg/L	0.960	1.00	96.0	85 - 115	X411026	21-Mar-24	
EPA 200.7	Potassium	mg/L	19.8	20.0	98.8	85 - 115	X411026	21-Mar-24	
EPA 200.7	Silver	mg/L	0.0482	0.0500	96.3	85 - 115	X411026	21-Mar-24	
EPA 200.7	Sodium	mg/L	18.2	19.0	95.8	85 - 115	X411026	21-Mar-24	
EPA 200.7	Vanadium	mg/L	0.986	1.00	98.6	85 - 115	X411026	21-Mar-24	
EPA 200.7	Zinc	mg/L	0.970	1.00	97.0	85 - 115	X411026	21-Mar-24	
EPA 200.8	Antimony	mg/L	0.0254	0.0250	101	85 - 115	X410268	18-Mar-24	
EPA 200.8	Arsenic	mg/L	0.0244	0.0250	97.8	85 - 115	X410268	18-Mar-24	
EPA 200.8	Selenium	mg/L	0.0245	0.0250	98.1	85 - 115	X410268	18-Mar-24	
EPA 200.8	Thallium	mg/L	0.0254	0.0250	102	85 - 115	X410268	19-Mar-24	
EPA 200.8	Uranium	mg/L	0.0265	0.0250	106	85 - 115	X410268	18-Mar-24	M1
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00193	0.00200	96.7	85 - 115	X411180	15-Mar-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0910	0.100	91.0	90 - 110	X411005	12-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X411099	14-Mar-24	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X411070	13-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0940	0.100	94.0	90 - 110	X412008	20-Mar-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1660	1640	101	95.4 - 104	X412064	19-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.80	9.93	98.7	96.4 - 105	X410252	11-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	98.4	99.3	99.1	96.4 - 105	X410252	11-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X410239	12-Mar-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.04	3.00	101	90 - 110	X410194	07-Mar-24	
EPA 300.0	Fluoride	mg/L	2.00	2.00	100	90 - 110	X410194	07-Mar-24	
EPA 300.0	Nitrate as N	mg/L	2.03	2.00	101	90 - 110	X410194	07-Mar-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.56	4.50	101	90 - 110	X410194	07-Mar-24	
EPA 300.0	Nitrite as N	mg/L	2.53	2.50	101	90 - 110	X410194	07-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X410194	07-Mar-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0092**
Reported: 22-Mar-24 10:56

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 CaCO3	79.0	79.0	0.0	20	X412064 - X4C0092-01	19-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0	<1.0	UDL	20	X410252 - X4C0092-02	11-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X410252 - X4C0092-02	11-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X410252 - X4C0092-02	11-Mar-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X410252 - X4C0092-02	11-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	288	301	4.4	10	X410237 - X4C0106-01	12-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	573	608	5.9	10	X410237 - X4C0092-02	12-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X410239 - X4C0092-02	12-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	6.0	UDL	10	X410239 - X4C0106-01	12-Mar-24	
SM 4500 H B	pH @19.4°C	pH Units	3.4	3.6	5.7	20	X410252 - X4C0092-02	11-Mar-24	R2B

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	44.5	25.6	20.0	95	70 - 130	X411213 - X4C0091-01	19-Mar-24	
EPA 200.7	Calcium	mg/L	72.3	52.2	20.0	100	70 - 130	X411213 - X4C0129-02	19-Mar-24	
EPA 200.7	Magnesium	mg/L	33.3	13.3	20.0	100	70 - 130	X411213 - X4C0091-01	19-Mar-24	
EPA 200.7	Magnesium	mg/L	33.8	13.5	20.0	101	70 - 130	X411213 - X4C0129-02	19-Mar-24	
EPA 200.7	Potassium	mg/L	23.3	4.32	20.0	94.7	70 - 130	X411213 - X4C0091-01	19-Mar-24	
EPA 200.7	Potassium	mg/L	20.6	1.25	20.0	96.5	70 - 130	X411213 - X4C0129-02	19-Mar-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	2.06	1.08	1.00	97.6	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Aluminum	mg/L	113	115	1.00	0.30R>S	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1,M4
EPA 200.7	Barium	mg/L	0.934	0.0132	1.00	92.0	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Barium	mg/L	0.936	<0.200	1.00	93.6	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.7	Beryllium	mg/L	1.09	0.0639	1.00	102	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Beryllium	mg/L	1.13	<0.200	1.00	113	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.7	Boron	mg/L	0.988	<0.0400	1.00	97.2	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Boron	mg/L	<4.00	<4.00	1.00	104	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.7	Cadmium	mg/L	0.972	0.0032	1.00	96.9	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Cadmium	mg/L	1.03	<0.200	1.00	103	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.7	Calcium	mg/L	82.8	63.6	20.0	95.8	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Calcium	mg/L	491	475	20.0	81.9	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.7	Chromium	mg/L	0.958	<0.0060	1.00	95.8	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Chromium	mg/L	0.921	<0.600	1.00	92.1	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.7	Cobalt	mg/L	1.05	0.108	1.00	94.6	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Cobalt	mg/L	2.36	1.39	1.00	97.1	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.7	Copper	mg/L	0.978	<0.0100	1.00	97.8	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Copper	mg/L	293	302	1.00	0.30R>S	70 - 130	X411026 - X4C0124-04	21-Mar-24	D2,M4
EPA 200.7	Iron	mg/L	40.7	31.3	10.0	94.6	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Iron	mg/L	<10.0	<10.0	10.0	99.7	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.7	Lead	mg/L	1.03	0.0720	1.00	96.1	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Lead	mg/L	1.20	<0.750	1.00	120	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.7	Lithium	mg/L	1.01	<0.040	1.00	97.9	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Lithium	mg/L	<4.00	<4.00	1.00	N/A	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1,M4
EPA 200.7	Magnesium	mg/L	52.7	32.6	20.0	101	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Magnesium	mg/L	250	251	20.0	0.30R>S	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1,M4

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4C0092**
Reported: 22-Mar-24 10:56

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	2.88	1.95	1.00	93.9	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Manganese	mg/L	73.6	73.3	1.00	0.30R>S	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1,M4
EPA 200.7	Molybdenum	mg/L	0.972	<0.0080	1.00	97.2	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Molybdenum	mg/L	1.06	<0.800	1.00	106	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.7	Nickel	mg/L	1.16	0.215	1.00	94.6	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Nickel	mg/L	1.42	<1.00	1.00	142	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1,M4
EPA 200.7	Potassium	mg/L	22.4	2.49	20.0	99.8	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Potassium	mg/L	<50.0	<50.0	20.0	173	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1,M4
EPA 200.7	Silver	mg/L	0.0472	<0.0050	0.0500	94.4	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Silver	mg/L	<0.500	<0.500	0.0500	N/A	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1,M4
EPA 200.7	Sodium	mg/L	32.3	13.7	19.0	97.8	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Sodium	mg/L	<50.0	<50.0	19.0	55.6	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1,M4
EPA 200.7	Vanadium	mg/L	0.983	<0.0050	1.00	98.3	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Vanadium	mg/L	1.10	<0.500	1.00	110	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.7	Zinc	mg/L	2.74	1.85	1.00	89.6	70 - 130	X411026 - X4C0092-01	21-Mar-24	
EPA 200.7	Zinc	mg/L	9.95	9.15	1.00	79.1	70 - 130	X411026 - X4C0124-04	21-Mar-24	D1
EPA 200.8	Antimony	mg/L	0.0283	<0.00100	0.0250	113	70 - 130	X410268 - X4C0092-01	18-Mar-24	
EPA 200.8	Antimony	mg/L	0.0309	0.00152	0.0250	117	70 - 130	X410268 - X4C0119-01	18-Mar-24	
EPA 200.8	Arsenic	mg/L	0.0297	<0.00100	0.0250	117	70 - 130	X410268 - X4C0092-01	18-Mar-24	
EPA 200.8	Arsenic	mg/L	0.0392	0.00705	0.0250	129	70 - 130	X410268 - X4C0119-01	18-Mar-24	
EPA 200.8	Selenium	mg/L	0.0299	<0.00100	0.0250	120	70 - 130	X410268 - X4C0092-01	18-Mar-24	
EPA 200.8	Selenium	mg/L	0.0355	<0.00100	0.0250	142	70 - 130	X410268 - X4C0119-01	18-Mar-24	M1
EPA 200.8	Thallium	mg/L	0.0248	<0.000200	0.0250	99.1	70 - 130	X410268 - X4C0092-01	19-Mar-24	
EPA 200.8	Thallium	mg/L	0.0238	<0.000200	0.0250	95.3	70 - 130	X410268 - X4C0119-01	19-Mar-24	
EPA 200.8	Uranium	mg/L	0.0446	0.00962	0.0250	140	70 - 130	X410268 - X4C0092-01	18-Mar-24	M1
EPA 200.8	Uranium	mg/L	0.0382	0.000237	0.0250	152	70 - 130	X410268 - X4C0119-01	18-Mar-24	M1
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00202	<0.000200	0.00200	101	70 - 130	X411180 - X4C0051-01	15-Mar-24	
EPA 245.1	Mercury	mg/L	0.00204	<0.000200	0.00200	102	70 - 130	X411180 - X4C0092-04	15-Mar-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.105	<0.0050	0.100	105	79 - 121	X411005 - X4C0028-04	12-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X411099 - X4C0061-01	14-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	0.0976	<0.0050	0.100	97.6	90 - 110	X411099 - X4C0092-01	14-Mar-24	
EPA 350.1	Ammonia as N	mg/L	1.09	<0.030	1.00	109	90 - 110	X411070 - X4C0127-01	13-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0950	<0.0050	0.100	94.0	82 - 118	X412008 - X4C0061-01	20-Mar-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.17	<0.20	3.00	102	90 - 110	X410194 - X4C0092-04	07-Mar-24	
EPA 300.0	Fluoride	mg/L	2.05	<0.100	2.00	101	90 - 110	X410194 - X4C0092-04	07-Mar-24	
EPA 300.0	Nitrate as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X410194 - X4C0092-04	07-Mar-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.11	<0.100	4.00	103	90 - 110	X410194 - X4C0092-04	07-Mar-24	
EPA 300.0	Nitrite as N	mg/L	2.07	<0.050	2.00	104	90 - 110	X410194 - X4C0092-04	07-Mar-24	
EPA 300.0	Sulfate as SO4	mg/L	10.6	<0.30	10.0	104	90 - 110	X410194 - X4C0092-04	07-Mar-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: **X4C0092**
Reported: 22-Mar-24 10:56

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	45.1	44.5	20.0	1.0	20	97	X411213 - X4C0091-01	
EPA 200.7	Magnesium	mg/L	33.3	33.3	20.0	0.2	20	100	X411213 - X4C0091-01	
EPA 200.7	Potassium	mg/L	23.6	23.3	20.0	1.2	20	96.1	X411213 - X4C0091-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	2.03	2.06	1.00	1.6	20	94.3	X411026 - X4C0092-01	
EPA 200.7	Barium	mg/L	0.913	0.934	1.00	2.2	20	90.0	X411026 - X4C0092-01	
EPA 200.7	Beryllium	mg/L	1.08	1.09	1.00	0.3	20	102	X411026 - X4C0092-01	
EPA 200.7	Boron	mg/L	0.965	0.988	1.00	2.3	20	95.0	X411026 - X4C0092-01	
EPA 200.7	Cadmium	mg/L	0.943	0.972	1.00	3.0	20	94.0	X411026 - X4C0092-01	
EPA 200.7	Calcium	mg/L	82.4	82.8	20.0	0.4	20	94.3	X411026 - X4C0092-01	
EPA 200.7	Chromium	mg/L	0.937	0.958	1.00	2.3	20	93.7	X411026 - X4C0092-01	
EPA 200.7	Cobalt	mg/L	1.02	1.05	1.00	2.8	20	91.7	X411026 - X4C0092-01	
EPA 200.7	Copper	mg/L	0.959	0.978	1.00	1.9	20	95.9	X411026 - X4C0092-01	
EPA 200.7	Iron	mg/L	40.5	40.7	10.0	0.5	20	92.4	X411026 - X4C0092-01	
EPA 200.7	Lead	mg/L	1.00	1.03	1.00	2.9	20	93.1	X411026 - X4C0092-01	
EPA 200.7	Lithium	mg/L	0.990	1.01	1.00	2.3	20	95.6	X411026 - X4C0092-01	
EPA 200.7	Magnesium	mg/L	51.0	52.7	20.0	3.2	20	92.4	X411026 - X4C0092-01	
EPA 200.7	Manganese	mg/L	2.85	2.88	1.00	1.2	20	90.5	X411026 - X4C0092-01	
EPA 200.7	Molybdenum	mg/L	0.951	0.972	1.00	2.2	20	95.1	X411026 - X4C0092-01	
EPA 200.7	Nickel	mg/L	1.13	1.16	1.00	2.9	20	91.3	X411026 - X4C0092-01	
EPA 200.7	Potassium	mg/L	22.1	22.4	20.0	1.4	20	98.2	X411026 - X4C0092-01	
EPA 200.7	Silver	mg/L	0.0460	0.0472	0.0500	2.6	20	92.0	X411026 - X4C0092-01	
EPA 200.7	Sodium	mg/L	31.9	32.3	19.0	1.1	20	95.9	X411026 - X4C0092-01	
EPA 200.7	Vanadium	mg/L	0.961	0.983	1.00	2.2	20	96.1	X411026 - X4C0092-01	
EPA 200.7	Zinc	mg/L	2.67	2.74	1.00	2.8	20	82.1	X411026 - X4C0092-01	
EPA 200.8	Antimony	mg/L	0.0268	0.0283	0.0250	5.6	20	107	X410268 - X4C0092-01	
EPA 200.8	Arsenic	mg/L	0.0282	0.0297	0.0250	5.3	20	111	X410268 - X4C0092-01	
EPA 200.8	Selenium	mg/L	0.0284	0.0299	0.0250	5.0	20	114	X410268 - X4C0092-01	
EPA 200.8	Thallium	mg/L	0.0250	0.0248	0.0250	0.9	20	100	X410268 - X4C0092-01	
EPA 200.8	Uranium	mg/L	0.0426	0.0446	0.0250	4.5	20	132	X410268 - X4C0092-01	M1
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00197	0.00202	0.00200	2.8	20	98.3	X411180 - X4C0051-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.107	0.105	0.100	1.9	11	107	X411005 - X4C0028-04	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.103	0.100	1.4	20	102	X411099 - X4C0061-01	
EPA 350.1	Ammonia as N	mg/L	1.09	1.09	1.00	0.6	20	109	X411070 - X4C0127-01	
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.0950	0.100	8.1	11	102	X412008 - X4C0061-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.19	3.17	3.00	0.5	20	103	X410194 - X4C0092-04	
EPA 300.0	Fluoride	mg/L	2.07	2.05	2.00	0.7	20	102	X410194 - X4C0092-04	
EPA 300.0	Nitrate as N	mg/L	2.05	2.04	2.00	0.6	20	103	X410194 - X4C0092-04	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.13	4.11	4.00	0.4	20	103	X410194 - X4C0092-04	
EPA 300.0	Nitrite as N	mg/L	2.08	2.07	2.00	0.3	20	104	X410194 - X4C0092-04	
EPA 300.0	Sulfate as SO4	mg/L	10.8	10.6	10.0	1.1	20	106	X410194 - X4C0092-04	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4C0092**
Victor, CO 80860	Reported: 22-Mar-24 10:56

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.
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

Newmont
NORTH AMERICA

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

Groundwater Sampling Log

Location: Arequa Gulch
Technician: P. Barela
Static Water Level (DTW): 30

Date: 1-10-24
Quarter: 1
Well ID: CRMW-3A
Well Depth (TD): 33 feet

Is well Dry? —
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
12:50								INSUFFICIENT NO SAMPLE

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

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

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

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

Decontamination procedure used: Use Sounder

Weather: Clear, windy, very cold
Signature:

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

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

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Arequa Gulch
Technician: R. Barela
Static Water Level (DTW): 32.3

Date: 3/12/24
Quarter: 1
Well ID: CBMW-3A
Well Depth (TD): 33

Is well Dry? NO
If so Dry at: — feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:54								

Insufficient NO Sample

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

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

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

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

Weather: 38° Cloudy, breezy
Signature:

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

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

Show Calculations:

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Date: 1-23-24

Location : CBMW-3B

Quarter: 1

Technician: D. Barella

Time	pH (S.U.)	Cond (uS/cm)	Temp °C	Notes
10:56				

Sample Method: —

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: —

Signature:

Comments:

INSUFFICIENT

Turned on PUMP For 60 min and nothing Pumped out

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Date: 3/12/24

Location: CBMW-3B

Quarter: 1

Technician: P. Barela

Time	pH (S.U.)	Cond (uS/cm)	Temp. °C	Notes
12:14	/	/	/	/

Sample Method: —

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: —

Signature:

Comments:

Insufficient Man Pump For 60 min no water was Pumped

NO SAMPLE

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Date: 1-23-24

Location : CRMW-3C

Quarter: 1

Technician: P. Barela

Time	pH (S.U.)	Cond (uS/cm)	Temp. (°C)	Notes
10:56				

Sample Method:

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather:

Signature:

Comments:

Insufficient
turned on pump for 60 min and nothing pumped out.

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Date: 3/12/24

Location: CBMW-3C

Quarter: 1

Technician: P. Barela

Time	pH (S.U.)	Cond (uS/cm)	Temp (°C)	Notes
12:18	/	/	/	/

Sample Method: —

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: —

Signature:

Comments:

Insufficient. Ran pump for 60 min and no water was pumped out

NO Sample

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Arequa Gulch
Technician: P. Barela
Static Water Level (DTW): —
Is well Dry? —
If so Dry at: ____ feet

Date: 1-8-24
Quarter: 1
Well ID: CBMW-5A
Well Depth (TD): 205

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:05								
								Unable to access well. Too much snow on road

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

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

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

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

Decontamination procedure used: —

Weather: windy, very cold
Signature: [signature]

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

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Arequa Gulch
Technician: J. Burrola
Static Water Level (DTW): —
Is well Dry? —
If so Dry at: — feet

Date: 3/18/24
Quarter: 1
Well ID: —
Well Depth (TD): —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
11:35						about 8" of snow on road to wells
						CRMW-5A
						" -5B
						" -5C
						" -5D
						AG. 20
						NO SAMPLE

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

Final Parameters	Stabilization Guidance		Met?	Comments
pH		0.1	Y / N	
Conductivity		3%	Y / N	
Temp©		3%	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

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

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

Decontamination procedure used: —

Weather: 38° Cloudy
Signature: [signature]

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

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

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Arequa Gulch
Technician: P. Barela
Static Water Level (DTW): —
Is well Dry? —
If so Dry at: _____ feet

Date: 1-8-24
Quarter: 1
Well ID: CBMW-5B
Well Depth (TD): 143

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:05								
								unable to access well too much snow on road

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

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

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

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

Decontamination procedure used: _____

Weather: windy, very cold
Signature: _____

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

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

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Arequa Gulch
Date: 1-8-24
Technician: P. Barela
Quarter: 1
Static Water Level (DTW): —
Well ID: CBMW-5C
Well Depth (TD): 60
Is well Dry? —
If so Dry at: — feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:05								
								unable to access well. Too much snow on road

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

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

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

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

Decontamination procedure used:

Weather: Windy, very cold
Signature:

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

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Arequa Gulch
Technician: P. Barela
Static Water Level (DTW): —
Is well Dry? _____ If so Dry at: _____ feet

Date: 1-8-24
Quarter: 1
Well ID: CRMW-5D
Well Depth (TD): 27

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:05								
								unable to access well. Too much snow on road

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

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

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

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

Decontamination procedure used: —

Weather: windy, very cold
Signature: [signature]

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

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Arequa Gulch
Technician: T. Barela
Static Water Level (DTW): 200
Date: 1-10-23
Quarter: 1
Well ID: ESPMW-1
Well Depth (TD): 220
Is well Dry? _____ If so Dry at: _____ feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
1:11								DRY
								try to pump dirt
								nothing came out

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

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

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

O/G visible: Y / N Turbid? Y / N
Equipment Decontaminated: Y / N
Decontamination procedure used: use sander & turned on pump
Weather: clear, windy, cold
Signature: _____

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

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Poverty Gulch
Date: 1-8-24
Technician: P. Barela
Quarter: 1
Static Water Level (DTW): —
Well ID: PGMW-2
Well Depth (TD): 218 feet
Is well Dry? YES
If so Dry at: 218

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:20								
								Dry at
								218

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

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

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

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

Decontamination procedure used: use squirt

Weather: windy, very cold

Signature: [signature]

Volume Calculations:

For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$

Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$

Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$

Well Volume Purge Method: *Three Well Volumes = 3*V*

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

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Poverty Gulch
Technician: R. Barela
Static Water Level (DTW): 49.56
Date: 3/27/24 / 3/28/24
Quarter: 1
Well ID: PGMW-3
Well Depth (TD): 55.7 feet
Is well Dry? NO
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
1:16			4.36	1210	7.2		167	
1:22			4.42	1210	7.2		99	
1:29			4.79	1209	6.8		33	
1:36			5.22	1197	6.8		-13	
1:46			4.97	1194	7.3		-32	
3/28/24								
9:28	52.5							
9:38	Pump wasn't pumping anything. Insufficient. water levels wasn't high enough to pump anything							

Sample Method: ~~Bailer~~ Purge & return
Rate (gpm): — * Flow rate at stabilization (during sample collection)
Time Start: 1:16 3.27.24
Time End: 9:38 3.28.24

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

If Low Flow Met Drawdown greater than 0.33 ft? ~~Y~~ / N
* See Field Volume Guide
If yes, required pump vol (gal) following stabilization: 12
Actual vol. pumped (gal): —

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

Decontamination procedure used: Triple rinse w/ liquinox before sampling
Purge dry after removing ~8 gal.

Weather: Clear, cold

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:
55.7 − 49.56 = 6.14
0.6528 × 6.14 = 4.00
3 × 4.00 = 12

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Poverty Gulch
Date: 1/8/24
Technician: P. Barela
Quarter: 1
Static Water Level (DTW): —
Well ID: PGMW-4
Well Depth (TD): 39
Is well Dry? Yes
If so Dry at: 39 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
14:38								
								Dry at 39

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

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

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

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

Decontamination procedure used: use sounder

Weather: cloudy, very cold

Signature:

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

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Poverty Gulch
Technician: P. Barela
Static Water Level (DTW): 28.1
Date: 3/26/24
Quarter: 1
Well ID: PGMW-5
Well Depth (TD): 51
Is well Dry? NO
If so Dry at: — feet

Stabilization ↓ est

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
8:44			3.58	1129	3.1	15.58	267.8	
8:54	28.5	0.4	3.60	1005	2.6	14.89	272.5	
8:59	28.5	0	3.60	978	3.1	14.67	276.0	0.13 gpm (25)
9:04	28.5	0	3.60	951	3.1	13.77	280.7	
9:09	28.5	0	3.61	950	3.2	13.20	287.9	
9:14	28.55	0.05	3.61	952	3.2	13.21	290.3	

Total 0.45'

Sample Method: Low Flow
Rate (gpm): ~0.03 * Flow rate at stabilization (during sample collection)
Time Start: 8:44 Time End: 9:14

Final Parameters	Stabilization Guidance		Met?	Comments
pH	3.61	±0.1	Y / N	
Conductivity	952	3%	Y / N	
Temp (deg C)	3.2	3%	Y / N	
Dissolved Oxyge	13.21	10%	Y / N	
Turbidity	—	10%	Y / N	
Oxidation/Reduction	290.3	±10	Y / N	
DTW Stabilized	28.55	feet	Y / N	
Final H2O level	28.58	feet		

If Low Flow Met Drawdown greater than 0.33 ft? (Y) / N * See Field Volume Guide
If yes, required pump vol (gal): 0.59 following stabilization
Actual vol. pumped (gal) ~1 gal

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Triple rinse w/ liquinox before sampling

Weather: 14°, clear, cold
Signature:

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

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

Show Calculations:
0.45 draw down
0.3 + 0.29 = 0.59
use 5 gal bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Maize Gulch
Technician: P. Burela
Static Water Level (DTW): 214
Date: 3/27/24 / 3/28/24
Quarter: 1
Well ID: SGMW-8
Well Depth (TD): 219 feet
Is well Dry? NO
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:00			7.36	1560	6.7		218.1	
3/28/24								
10:10	218.1		Insufficient water level too low to collect sample					

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

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

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

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

Decontamination procedure used: —

Weather: Clear, windy
Signature:

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

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

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Maize Gulch
Date: 1/8/24
Technician: P. Bartig
Quarter: 1
Static Water Level (DTW):
Well ID: SGMW-5
Is well Dry? YES
If so Dry at: 256
Well Depth (TD): 256 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:17								dry at 256

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

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

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

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

Decontamination procedure used: use sander

Weather: windy, very cold

Signature:

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

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

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Maize Gulch
Date: 1-8-24
Technician: D. Barela
Quarter: 1
Static Water Level (DTW): —
Well ID: SGMW-6A
Well Depth (TD): 400
Is well Dry? yes
If so Dry at: 400 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:00								Dry at 400

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

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

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

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

Decontamination procedure used: USC sonder

Weather: windy, very cold.

Signature: [signature]

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

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

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Squaw/Maize Gulch
Date: 1-24-24
Technician: P. Barela
Quarter: 1
Static Water Level (DTW): 24.8
Well ID: SGMW-6B
Well Depth (TD): 60
Is well Dry? NO
If so Dry at: ____ feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
1:50			5.47	45.4	12.8	4.52	126.7	
1:55	24.9	0.1	5.34	50.5	13.0	4.53	118.8	0.23 4/M (112)
2:00	25.1	0.2	5.22	49.6	13.0	4.55	119.5	
2:05	25.2	0.1	5.28	48.4	13.0	4.55	118.4	
2:10	25.2	0	5.31	48.2	13.2	4.47	120.7	

Sample Method: Low Flow
Rate (gpm): ~0.06 * Flow rate at stabilization (during sample collection)
Time Start: 150
Time End: 2:10

Final Parameters	Stabilization Guidance		Met?	Comments
pH	5.31	±0.1	(Y) / N	
Conductivity	48.2	3%	(Y) / N	
Temp (deg C)	13.2	3%	(Y) / N	
Dissolved Oxyger	4.47	10%	(Y) / N	
Turbidity	.	10%	(Y) / N	
Oxidation/Reduction	120.7	±10	(Y) / N	
DTW Stabilized	25.2	feet	(Y) / N	
Final H2O level	25.2	feet		

If Low Flow Met Drawdown greater than 0.33 ft? (Y) / N
* See Field Volume Guide
If yes, required pump vol (gal): 0.64 following stabilization
Actual vol. pumped (gal) 0.90

O/G visible: Y / (N)
Turbid? (Y) / N
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Dedicated Pump. Triple rinse sounder before sampling
Weather: Cloudy
Signature: [signature]

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

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

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Maize Gulch
Technician: P. Barela
Static Water Level (DTW): ——
Date: 1-8-24
Quarter: 1
Well ID: SGMW-7A
Well Depth (TD): 400
Is well Dry? Yes
If so Dry at: 400 **feet**

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:35								
								Dry at
								400

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

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

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

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

Decontamination procedure used: use Bounder

Weather: windy, very cold

Signature: [signature]

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

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Maize Gulch
Technician: P. Barela
Static Water Level (DTW): —
Is well Dry? Yes
If so Dry at: —

Date: 1-8-24
Quarter: 1
Well ID: SGMW-7B
Well Depth (TD): 60 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:50								Dry at 60

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

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

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

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

Decontamination procedure used: use Sounder

Weather: windy, very cold

Signature:

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

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

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Vindicator Valley
Date: 1-23-24 / 1-24-24
Technician: P. Barela
Quarter: 1
Static Water Level (DTW): 87.8
Well ID: VIN-2B
Well Depth (TD): 140 feet
Is well Dry?
If so Dry at:

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
12:37			6.95	1315	7.2	—	76	
12:47	139		stopped pumping / dried out					
1/24/24								
12:06	88.5		6.86	1355	6.7	—	156	

Sample Method: purge & return
Rate (gpm): — * Flow rate at stabilization (during sample collection)
Time Start: 12:37 1-23-24 Time End: 12:06 1-24-24

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.86	±0.1	Y / N	
Conductivity	1355	3%	Y / N	
Temp (deg C)	6.7	3%	Y / N	
Dissolved Oxygen	—	10%	Y / N	
Turbidity	clear	10%	Y / N	
Oxidation/Reduction	156	±10	Y / N	
DTW Stabilized	88.5	feet	Y / N	
Final H2O level	88.5	feet		

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

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Dedicated Pump. Triple rinse sounder before sampling
Weather: clear
Signature:

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

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

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Vindicator Valley
Technician: P. Barela
Static Water Level (DTW): 263
Date: 3/25/24
Quarter: 1
Well ID: VIN-2A
Well Depth (TD): 270
Is well Dry? NO
If so Dry at: — feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
9:00								
								NO sample
								Line is Frozen,
								NOT discharging

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

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

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

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

Decontamination procedure used: Use Sounder

Weather: 14°, Snow, Cold
Signature:

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

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

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Wilson Creek
Date: 1-10-24
Technician: P. Barela
Quarter: 1
Static Water Level (DTW): 62.2
Well ID: WCMW-3
Well Depth (TD): 134 feet
Is well Dry? NO
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
1:57			7.52	867	4.3	2.11	43.2	
2:02	62.4	0.2	7.51	889	4.9	1.99	24.4	
2:07	62.4	0	7.58	915	4.7	1.54	-1.3	
2:12	62.4	0	7.59	902	4.8	1.32	-1.2	0.21 L/m (LPM)
2:17	62.4	0	7.56	902	4.8	1.0	-1.3	
2:22	62.4	0	7.59	899	4.9	0.96	-4.3	
2:27	62.4	0	7.59	893	4.8	0.90	-5.8	

Sample Method: Low Flow **Rate (gpm):** ~0.105 **Time Start:** 1:15 **Time End:** 2:27
** Flow rate at stabilization (during sample collection)*

Final Parameter	Stabilization Guidance		Met?	Comments
pH	7.59	±0.1	(Y) / N	
Conductivity	893	3%	(Y) / N	
Temp (deg C)	4.8	3%	(Y) / N	
Dissolved Oxygen	0.90	10%	(Y) / N	
Turbidity	Clear	10%	(Y) / N	
Oxidation/Reduction	-5.8	±10	(Y) / N	
DTW Stabilized	62.4	feet	(Y) / N	
Final H2O level	62.4	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N) If yes, required pump vol (gal): 0.77 following stabilization Actual vol. pumped (gal) 1
** See Field Volume Guide*

O/G visible: Y / (N) Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Triple rinse w/ liquinox before sampling
Collected duplicate
Weather: Clear, cold, windy
Signature: [signature]

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

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Wilson Creek
Technician: P. Barela
Static Water Level (DTW):
Is well Dry?
If so Dry at:

Date: 3/18/24
Quarter: 1
Well ID: WCMW-6 & WC SW-1
Well Depth (TD): —
feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
4:07						Prod to Wilson Creek 6 & 1 has a foot of snow (measured) unable to reach the fence to the road leading to the wells.

NO SAMPLE

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

Final Parameters	Stabilization Guidance		Met?	Comments
pH		0.1	Y / N	
Conductivity		3%	Y / N	
Temp©		3%	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

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

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

Decontamination procedure used: —

Weather: 38° Cloudy, cold

Signature:

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

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

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Wilson Creek
Date: 1-8-24
Technician: P. Barela
Quarter: 1
Static Water Level (DTW): —
Well ID: WCMW-6
Well Depth (TD): 234 feet
Is well Dry? —
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
8:20								
								Inaccessible road has too much snow

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

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

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

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

Weather: windy, very cold
Signature:

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

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

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy valley
Technician: T. Barela
Static Water Level (DTW): 146.55
Is well Dry? NO
If so Dry at: ____ feet

Date: 3/26/24
Quarter: 1
Well ID: GVMW-8A
Well Depth (TD): 229.05

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
12:50			6.42	294.3	6.1	5.48	257.3	
12:55	146.75	0.2	6.54	274.2	5.9	7.39	248.0	
1:00	146.75	0	6.54	266.9	6.3	6.99	235.1	0.8 L/m (2.81)
1:05	146.77	0.02	6.66	266.9	7.0	6.21	214.5	
1:10	146.77	0	6.65	264.4	7.4	6.08	210.7	
1:15	146.78	0.01	6.65	263.3	7.5	6.04	209.3	
1:20	146.78	0	6.65	263.0	7.5	6.06	205.6	
		Total 0.23'						

Sample Method: Low Flow
Rate (gpm): ~0.21 * Flow rate at stabilization (during sample collection)
Time Start: 12:50 Time End: 1:20

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.65	±0.1	Y / N	
Conductivity	263.0	3%	Y / N	
Temp (deg C)	7.5	3%	Y / N	
Dissolved Oxyge	6.06	10%	Y / N	
Turbidity	—	10%	Y / N	
Oxidation/Reduction	205.6	±10	Y / N	
DTW Stabilized	146.78	feet	Y / N	
Final H2O level	146.78	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / N
* See Field Volume Guide
If yes, required pump vol (gal) following stabilization: 0.30 Actual vol. pumped (gal): ~7

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

Weather: Clear, cold
Signature:

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

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

Show Calculations:
0.45 gal buckets

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy valley
Date: 3/26/24 & 3/27/24
Technician: P. Barela
Quarter: 1
Static Water Level (DTW): 42.32
Well ID: GVMW-8B
Well Depth (TD): 47.37 feet
Is well Dry? NO
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
1:45			6.58	250.4	5.9	10.73	222.5	
1:50	43.65	1.33	6.61	248.1	6.4	9.63	219.9	
1:55	43.85	0.2	6.68	246.6	8.0	9.05	211.7	
2:00			6.64	248.9	7.0	20.94	216.0	
3/27/24								
9:40	42.67							
9:45	43.55		6.30	151.2	5.4	9.84	253.9	

Sample Method: Purge & return
Rate (gpm): —
* Flow rate at stabilization (during sample collection)
Time Start: 1:45 3-26-24
Time End: 9:45 3-27-24

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.30	±0.1	Y / N	
Conductivity	151.2	3%	Y / N	
Temp (deg C)	5.4	3%	Y / N	
Dissolved Oxyge	9.84	10%	Y / N	
Turbidity	—	10%	Y / N	
Oxidation/Reduction	253.9	±10	Y / N	
DTW Stabilized	43.55	feet	Y / N	
Final H2O level	43.55	feet		

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

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

Decontamination procedure used: Dedicated pump. Water level never stabilized, moved to Purge & return water level dropped to 46.70

Weather: clear, cold
Signature:

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

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy valley Date: 3/6/24
Technician: P. Barela Quarter: 1
Static Water Level (DTW): 82.8 Well ID: GVMW-15B
Well Depth (TD): 102 feet
Is well Dry? NO If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:40			3.25	132.4	6.3	6.16	367.1	
11:09	86.1	3.3	4.11	155.6	5.6	0.81	238.9	
11:14	86.1	0	4.11	146.8	5.6	0.80	236.9	3.33 L/m
11:19	86.1	0	4.10	144.1	5.6	0.77	234.0	
11:24	86.1	0	4.10	144.9	5.6	0.77	233.3	
	Total drawdown 3.3'							

Stabilization (margin note at 11:09–11:14 rows)

Sample Method: 3 well Rate (gpm): ~0.88 Time Start: 10:40 Time End: 11:24
** Flow rate at stabilization (during sample collection)*

Final Parameters		Stabilization Guidance	Met?	Comments
pH	4.10	±0.1	Y / N	
Conductivity	144.9	3%	Y / N	
Temp (deg C)	5.6	3%	Y / N	
Dissolved Oxygen	0.77	10%	Y / N	.3 mg/L for vol. met purge
Turbidity	Clear	10%	Y / N	
Oxidation/Reduction	233.3	±10	Y / N	
DTW Stabilized	86.1	feet	Y / N	
Final H2O level	86.1	feet		

If Low Flow Met Drawdown greater than 0.33 ft? ~~Y / N~~ If yes, required pump vol (gal): 37.59 Actual vol. pumped (gal) 45 gal
** See Field Volume Guide* following stabilization

O/G visible: Y / (N) Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Triple rinse w/ liquinox before sampling. Collected duplicate
Weather: 32°, windy, cold
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: 102 − 82.8 = 19.2; 0.6528 × 19.22 = 12.53; 3 × 12.53 = 37.59; use 5 gal bucket

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Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Date: 3/6/24
Technician: P. Barela
Quarter: 1
Static Water Level (DTW): 82.8
Well ID: GVMW-15G
Well Depth (TD): 102 feet
Is well Dry? NO
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:24	86.1	3.3	4.10	144.9	5.6	0.77	233.3	
		total 3.3'						Duplicate of GVMW-15B

Sample Method: 3 well
Rate (gpm): ~0.88
* Flow rate at stabilization (during sample collection)
Time Start: 10:40
Time End: 11:24

Final Parameters	Stabilization Guidance		Met?	Comments
pH	4.10	±0.1	Y / N	
Conductivity	144.9	3%	Y / N	
Temp (deg C)	5.6	3%	Y / N	
Dissolved Oxygen	0.77	10%	Y / N	
Turbidity	Clear	10%	Y / N	
Oxidation/Reduction	233.3	±10	Y / N	
DTW Stabilized	86.1	feet	Y / N	
Final H2O level	86.1	feet		

If Low Flow Met Drawdown greater than 0.33 ft? ~~Y / N~~
* See Field Volume Guide

If yes, required pump vol (gal): 37.59 following stabilization
Actual vol. pumped (gal): 45 gal

O/G visible: Y / N
Turbid? Y / N
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Triple rinse w/ liquinox before sampling

Weather: 32°, windy, cold.
Signature: [signature]

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

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy valley
Technician: P. Barela
Static Water Level (DTW): 3.4
Is well Dry? NO
If so Dry at: — feet

Date: 3/12/24
Quarter: 1
Well ID: GVMW-22A
Well Depth (TD): 70

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
2:24			7.90	230.8	6.0	10.02	239.5	
2:29	3.5	0.1	7.84	210.8	5.0	9.46	240.0	
2:34	3.8	0.3	7.84	211.2	5.5	9.06	238.1	
2:39	4.8	1	7.85	210.2	5.5	8.42	244.0	0.6 L/m
2:44	4.8	0	7.84	212.4	5.6	8.50	249.3	
2:49	4.7	+0.1	7.84	212.3	5.5	8.47	250.6	
		Total 1.3'						

Stabilization 1

Sample Method: Low Flow
Rate (gpm): ~0.15 * Flow rate at stabilization (during sample collection)
Time Start: 2:24 Time End: 2:49

Final Parameters	Stabilization Guidance		Met?	Comments
pH	7.84	±0.1	Y / N	
Conductivity	212.3	3%	Y / N	
Temp (deg C)	5.5	3%	Y / N	
Dissolved Oxyger	8.47	10%	Y / N	
Turbidity	Clear	10%	Y / N	
Oxidation/Reduction	250.8	±10	Y / N	
DTW Stabilized	4.7	feet	Y / N	
Final H2O level	4.7	feet		

If Low Flow Met Drawdown greater than 0.33 ft? (Y) / N
* See Field Volume Guide
If yes, required pump vol (gal): 1.20 Actual vol. pumped (gal) 2 gal
following stabilization

O/G visible: Y / (N)
Equipment Decontaminated: (Y) / N
Turbid? Y / (N)
Decontamination procedure used: Triple rinse w/ liquinox before sampling

Weather: 38°, clear
Signature:

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

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

Show Calculations:
1.3 = 0.3 * 0.40 = 1.20
drew down
use 5 gal bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: P. Barela
Static Water Level (DTW): 3.8

Date: 3/20/24
Quarter: 1
Well ID: GVMW-22B
Well Depth (TD): 30 feet

Is well Dry? NO
If so Dry at: —

Stabilization

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
12:18			6.42	20.8	5.1	11.56	92.2	
12:23	4.45	0.65	6.75	29.3	5.1	10.15	104.0	
12:28	4.4	+0.05	6.64	28.2	5.0	8.33	113.6	1.30 4/m (4)
12:33	4.4	0	6.63	28.1	5.0	8.72	122.4	
12:38	4.4	0	6.64	28.3	5.0	8.31	120.6	
12:43	4.4	0	6.64	28.5	5.1	8.52	121.8	
		Total 0.6'						

Sample Method: Low Flow
Rate (gpm): ~0.34 * Flow rate at stabilization (during sample collection)
Time Start: 12:18 Time End: 12:43

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.64	±0.1	Y / N	
Conductivity	28.5	3%	Y / N	
Temp (deg C)	5.1	3%	Y / N	
Dissolved Oxyge	8.52	10%	Y / N	
Turbidity	clear	10%	Y / N	
Oxidation/Reduction	121.8	±10	Y / N	
DTW Stabilized	4.4	feet	Y / N	
Final H2O level	4.4	feet		

If Low Flow Met Drawdown greater than 0.33 ft? (Y) / N
* See Field Volume Guide
If yes, required pump vol (gal) following stabilization: 0.67 Actual vol. pumped (gal) ~9 gal

O/G visible: Y / (N)
Equipment Decontaminated: (Y) / N
Turbid? Y / (N)
Decontamination procedure used: Triple rinse w/ liquinox before sampling.

Weather: 40°, clear, warm
Signature:

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

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

Show Calculations:
0.6 drawdown 0.5 + 0.17 = 0.67

Use 5gal bucket

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: BB-~~306~~ 0306

Date: 3/6/24

Technician: R. Barela

Quarter: 1

Time	pH (S.U.)	Cond. (mS/cm)	Temp. (°C)	Notes
2:22	7.45	2.76	10.5	DI water.

ORP
274

Sample Method: Grab

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: Clear, windy, cold

Signature:

Comments:

Collect BB after sampling GVMW-25

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy valley
Technician: P. Barela
Static Water Level (DTW): 6.35

Date: 3/20/24
Quarter: 1
Well ID: GVMW-26A
Well Depth (TD): 71 feet

Is well Dry? NO
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:17			7.45	346.6	4.6	7.21	278	
10:22	6.3	0.05	7.75	222.6	4.6	7.10	254	
10:27	6.4	0.1	7.84	315.9	5.7	7.61	266	
10:32	6.5	0.1	7.85	314.8	5.6	7.54	275	0.45 L/m (a)
10:37	6.6	0.1	7.85	313.0	5.7	7.54	285	
10:42	6.6	0	7.86	314.5	5.7	7.66	287	
10:47	6.6	0	7.86	314.3	5.7	7.78	287	

Stabilization

Sample Method: Low Flow
Rate (gpm): ~0.11 * Flow rate at stabilization (during sample collection)
Time Start: 10:17 Time End: 10:47

Final Parameters	Stabilization Guidance		Met?	Comments
pH	7.86	±0.1	Y / N	
Conductivity	314.3	3%	Y / N	
Temp (deg C)	5.7	3%	Y / N	
Dissolved Oxygen	7.78	10%	Y / N	
Turbidity	clear	10%	Y / N	
Oxidation/Reduction	287	±10	Y / N	
DTW Stabilized	6.6	feet	Y / N	
Final H2O level	6.6	feet		

If Low Flow Met Drawdown greater than 0.33 ft? (Y) / N
* See Field Volume Guide
If yes, required pump vol (gal): 0.71 following stabilization
Actual vol. pumped (gal) ~3.5 gal

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Triple rinse w/ liquinox before sampling

Weather: 41°, clear, warm
Signature:

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

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

Show Calculations:

0.5 = 0.3 + 0.41 = 0.71
0.5 drawdown
use 5 gal bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: P. Barela
Static Water Level (DTW): 6.0
Is well Dry? NO
If so Dry at: — feet

Date: 3/20/24
Quarter: 1
Well ID: GVMW-26B
Well Depth (TD): 24

Stabilization →

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:09			6.45	122.7	6.0	5.35	56.1	
11:14	6.0	0	6.60	128.8	5.0	5.53	73.1	
11:19	6.0	0	6.60	127.1	5.0	7.40	97.4	0.10 L/m (S)
11:24	6.0	0	6.60	127.0	5.1	7.00	96.5	
11:29	6.0	0	6.60	126.3	5.0	7.30	92.2	
		Total 0						

Sample Method: Low Flow
Rate (gpm): ~0.02 * Flow rate at stabilization (during sample collection)
Time Start: 11:09 Time End: 11:29

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.60	±0.1	Y / N	
Conductivity	126.3	3%	Y / N	
Temp (deg C)	5.0	3%	Y / N	
Dissolved Oxygen	7.30	10%	Y / N	
Turbidity	clear	10%	Y / N	
Oxidation/Reduction	92.2	±10	Y / N	
DTW Stabilized	6.0	feet	Y / N	
Final H2O level	6.0	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N) * See Field Volume Guide
If yes, required pump vol (gal): — following stabilization
Actual vol. pumped (gal) ~1 gal

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Triple rinse w/liquinox before sampling

Weather: 41°, clear, warm
Signature:

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

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

Show Calculations:
USE 5 gal bucket

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: AG-2.0

Date: 1-8-24

Technician: P. Barela

Quarter: 1

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
11:05	/	/	/	/

Sample Method: —

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: windy, very cold

Signature:

Comments:

access road to location has too much snow
unable to access

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: T-2

Date: 1-8-23

Technician: P. Barela

Quarter: 1

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
8:32	—	—	—	—

Sample Method: —

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: Windy, wet ground

Signature:

Comments:

Dry. Covered in snow

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location : WCSW-01

Date: 1-8-24

Technician: P. Barela

Quarter: 1

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
8:20	/	/	/	/

Sample Method: —

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: windy, very cold

Signature:

Comments:

Inaccessible, road has too much snow

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Date: 1-9-24

Location : CCVB-0109

Quarter: 1

Technician: P. Barela

Time	pH (S.U.)	Cond (uS/cm)	Temp (°C)	Notes
2:25	7.50	1.72	3.9	DI water

Sample Method: Grab

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: ———

Signature: _____

Comments:

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Date: 1-24-24

Location: RB -0124

Quarter: 1

Technician: P. Barela

Time	pH (S.U.)	Cond (uS/cm)	Temp. (°C)	Notes
9:40	7.60	2.66	12.0	DI water

Sample Method: Grab

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: Clear

Signature:

Comments:

RB before sampling GVMW-10

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy valley
Technician: R. Barela
Static Water Level (DTW): 4.2
Is well Dry? NO
If so Dry at: —
Date: 1-18-24
Quarter: 1
Well ID: GVMW-122G
Well Depth (TD): 50 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:55	4.8	0	6.04	41.9	6.4	6.10	123.5	

Sample Method: Low Flow
Rate (gpm): ~0.28 * Flow rate at stabilization (during sample collection)
Time Start: 11:30 Time End: 11:55

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.04	±0.1	Y / N	
Conductivity	41.9	3%	Y / N	
Temp (deg C)	6.4	3%	Y / N	
Dissolved Oxyge	6.10	10%	Y / N	
Turbidity	Clear	10%	Y / N	
Oxidation/Reduction	123.5	±10	Y / N	
DTW Stabilized	4.8	feet	Y / N	
Final H2O level	4.8	feet		

If Low Flow Met Drawdown greater than 0.33 ft? (Y) / N
* See Field Volume Guide
If yes, required pump vol (gal): 0.67 following stabilization
Actual vol. pumped (gal) 4.2

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

Decontamination procedure used: Triple rinse before sampling, Duplicate From GVMW-22B

Weather: Clear, windy
Signature:

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

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

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: RB2-0109

Date: 1-9-24

Technician: P. Burella

Quarter: 1

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
12:50	7.30	4.94	4.6	DI water

Sample Method: Grab

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather:

Signature:

Comments:

collected RB before sampling GVMW-25

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Wilson Creek
Date: 1-10-24
Technician: P. Barrig
Quarter: 1
Static Water Level (DTW): 62.2
Well ID: WCMW-103
Well Depth (TD): 134
Is well Dry? NO
If so Dry at: — feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
2:27	62.4	0	7.59	893	4.8	0.90	-9.8	
								DUPLICATE
								OF
								~~DUP~~ WCMW-3

Sample Method: Low Flow
Rate (gpm): ~0.05 * Flow rate at stabilization (during sample collection)
Time Start: 1:15 Time End: 2:27

Final Parameters	Stabilization Guidance		Met?	Comments
pH	7.59	±0.1	Y / N	
Conductivity	893	3%	Y / N	
Temp (deg C)	4.8	3%	Y / N	
Dissolved Oxyger	0.90	10%	Y / N	
Turbidity	clear	10%	Y / N	
Oxidation/Reduction	-9.8	±10	Y / N	
DTW Stabilized	62.4	feet	Y / N	
Final H2O level	62.4	feet		

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

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Triple rinse w/ liquinox before ~~collect~~ sampling

Weather: clear, windy, cold
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:
$1ft^3 = 7.48\ gal$ $1gal = 3.785\ L$	

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy valley
Date: 1-9-24
Technician: P. Burma
Quarter: 1
Static Water Level (DTW): 47.6
Well ID: GVMW-7A
Well Depth (TD): 200.
Is well Dry? NO
If so Dry at: — **feet**

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:20			7.40	283.7	2.8	4.50	138.4	
11:25	47.6	0	7.32	274.0	3.8	0.74	82.7	
11:30	47.6	0	7.36	281.0	4.1	0.45	-16.3	(36)
11:35	47.7	0.1	7.38	283.7	3.5	0.14	-44.1	~0.32 L/m
11:40	47.7	0	7.36	283.4	3.5	0.27	-58.3	
11:45	47.7	0	7.37	282.4	3.5	0.24	-66.7	

Sample Method: Low Flow **Rate (gpm):** ~0.09 **Time Start:** 11:20 **Time End:** 11:45
** Flow rate at stabilization (during sample collection)*

Final Parameters	Stabilization Guidance		Met?	Comments
pH	7.37	±0.1	Y / N	
Conductivity	282.4	3%	Y / N	
Temp (deg C)	3.5	3%	Y / N	
Dissolved Oxygen	0.24	10%	Y / N	
Turbidity	clear	10%	Y / N	
Oxidation/Reduction	-66.7	±10	Y / N	
DTW Stabilized	47.7	feet	Y / N	
Final H2O level	47.7	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N)
** See Field Volume Guide*
If yes, required pump vol (gal): 1.44 following stabilization Actual vol. pumped (gal): 1.20

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Triple rinse w/ Liquinox before Sampling. collected duplicate
Weather: Clear, windy, cold
Signature:

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

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Date: 1-9-24
Technician: P. Barela
Quarter: 1
Static Water Level (DTW): 47.6
Well ID: GVMW-107F
Well Depth (TD): 200 feet
Is well Dry? NO
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:45	47.7	0	7.37	282.4	3.5	0.24	-66.7	collected duplicate from GVMW-71

Sample Method: Low Flow
Rate (gpm): ~0.08 * Flow rate at stabilization (during sample collection)
Time Start: 11:20 Time End: 11:45

Final Parameters	Stabilization Guidance		Met?	Comments
pH	7.37	±0.1	Y / N	
Conductivity	282.4	3%	Y / N	
Temp (deg C)	3.5	3%	Y / N	
Dissolved Oxyger	0.24	10%	Y / N	
Turbidity	clear	10%	Y / N	
Oxidation/Reduction	-66.7	±10	Y / N	
DTW Stabilized	47.7	feet	Y / N	
Final H2O level	47.7	feet		

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

O/G visible: Y / N
Turbid? Y / N
Equipment Decontaminated: Y / N
Decontamination procedure used: Triple rinse w/ liquinox before sampling

Weather: clear, windy, cold
Signature:

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

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

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: P. Barela
Static Water Level (DTW): 82.5
Date: 2-20-24
Quarter: 1
Well ID: GVMW-15B
Well Depth (TD): 102
Is well Dry? NO
If so Dry at: — feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
9:43			3.64	121.9	5.6	4.71	162.4	Started Pumping.
10:11	86.7	4.2	4.20	120.4	5.6	0.05	255.5	4.04 4m (121)
10:16	87.1	0.4	4.20	219.8	5.6	0.06	252.8	
10:21	87.1	0	4.20	233.4	5.7	0.09	237.2	
10:26	87.1	0	4.21	234.2	5.6	0.10	236.2	
10:31	87.1	0	4.21	235.5	5.7	0.12	234.7	
	Total drawdown	4.6'						

Sample Method: 3 well volume
Rate (gpm): ~1.06 * Flow rate at stabilization (during sample collection)
Time Start: 9:43 Time End: 10:31

Final Parameters	Stabilization Guidance		Met?	Comments
pH	4.21	±0.1	Y / N	
Conductivity	235.5	3%	Y / N	
Temp (deg C)	5.7	3%	Y / N	
Dissolved Oxyger	0.12	10%	Y / N	.5 mg/L For Volumet Purge
Turbidity	Clear	10%	Y / N	
Oxidation/Reduction	~~ORP~~ 234.7	±10	Y / N	
DTW Stabilized	87.1	feet	Y / N	
Final H2O level	87.1	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / N
* See Field Volume Guide
If yes, required pump vol (gal) following stabilization: 38.16
Actual vol. pumped (gal) ~48 gal

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

Decontamination procedure used: Triple rinse all equipment w/ liquinox
collected duplicate.

Weather: 41° windy, clear, cold

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:
102 - 82.5 = 19.5
0.6528 x 19.5 = 12.72
3 x 12.72 = 38.16

* use 5 gal bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy valley
Technician: P. Barela
Static Water Level (DTW): 82.5
Date: 2-20-24
Quarter: 1
Well ID: GVMW-115G
Well Depth (TD): 102 feet
Is well Dry? _____ **If so Dry at:** _____

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:31	87.1	0	4.21	235.5	5.7	0.12	234.7	Duplicate of GVMW-15B

Sample Method: 3 well volume **Rate (gpm):** ~1.06 * Flow rate at stabilization (during sample collection) **Time Start:** 9:43 **Time End:** 10:31

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

If Low Flow Met Drawdown greater than 0.33 ft? Y / N * See Field Volume Guide
If yes, required pump vol (gal): _____ following stabilization
Actual vol. pumped (gal) ~48 gal.

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Triple rinse all equipment w/ liquinox. Collected duplicate after collecting GVMW-15B
Weather: 41° windy, cold, clear
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:

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Attachment 3

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 first quarter, 2024 CC&V submitted duplicate samples for monitoring well WCMW-3, collected on 1/10/2024, monitoring well GVMW-22B on 1/18/2024, monitoring well GVMW-7A collected on 1/9/2024, and GVMW-15B collected on 2/20/2024 and 3/6/2024. 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-22B-30	GVMW-22B Duplicate	Relative Percent Difference (RPD, %)
Barium - Dissolved (mg/L)	0.0481	0.0466	3.17
Chloride - Total (mg/L)	8.04	8.14	1.24
Fluoride - Total F (mg/L)	0.376	0.384	2.11
Nitrate as Nitrogen (mg/L)	0.479	0.476	0.63
Nitrite + Nitrate as Nitrogen (mg/L)	0.479	0.481	0.42
Sodium - Dissolved (mg/L)	22.1	21.8	1.37
Sulfate - Total (mg/L)	90.8	89.5	1.44
Total Dissolved Solids (mg/L)	277	258	7.10
Uranium - Dissolved (mg/L)	0.000883	0.000827	6.55

Analyte	WCMW-3-134	WCMW-3 Duplicate	Relative Percent Difference (RPD, %)
Barium - Dissolved (mg/L)	0.066	0.0647	1.99
Chloride - Total (mg/L)	1.03	1.05	1.92
Fluoride - Total F (mg/L)	0.752	0.759	0.93
Manganese - Dissolved (mg/L)	0.0544	0.0483	11.88
Sodium - Dissolved (mg/L)	11	10.7	2.76
Sulfate - Total (mg/L)	24.5	24.7	0.81
Total Dissolved Solids (mg/L)	212	224	5.50
Uranium - Dissolved (mg/L)	0.00624	0.00626	0.32

Analyte	GVMW-7A	GVMW-7A Duplicate	Relative Percent Difference (RPD, %)
Barium - Dissolved (mg/L)	0.153	0.152	0.66
Chloride - Total (mg/L)	4.85	5.2	6.97
Fluoride - Total F (mg/L)	0.972	0.963	0.93
Iron - Dissolved (mg/L)	1.04	1.02	1.94
Manganese - Dissolved (mg/L)	0.181	0.187	3.26
Sodium - Dissolved (mg/L)	8.99	9.01	0.22
Sulfate - Total (mg/L)	17.8	17.7	0.56
Total Dissolved Solids (mg/L)	212	183	14.68
Uranium - Dissolved (mg/L)	0.00345	0.00373	7.80

Analyte	GVMW-15B February	GVMW-15B Duplicate February	Relative Percent Difference (RPD, %)
Aluminum - Dissolved (mg/L)	1.23	1.24	0.81
Barium - Dissolved (mg/L)	0.0145	0.0148	2.05
Beryllium - Dissolved (mg/L)	0.0674	0.0681	1.03
Cadmium - Dissolved (mg/L)	0.0032	0.0033	3.08
Chloride - Total (mg/L)	0.75	0.67	11.27
Cobalt - Dissolved (mg/L)	0.118	0.116	1.71
Fluoride - Total F (mg/L)	0.723	0.721	0.28
Iron - Dissolved (mg/L)	33.6	33.5	0.30
Lead - Dissolved (mg/L)	0.0816	0.0807	1.11
Manganese - Dissolved (mg/L)	2.22	2.22	0.00
Nickel - Dissolved (mg/L)	0.238	0.235	1.27
Sodium - Dissolved (mg/L)	14.7	14.7	0.00
Sulfate - Total (mg/L)	411	417	1.45
Total Dissolved Solids (mg/L)	641	698	8.51
Uranium - Dissolved (mg/L)	0.00824	0.00829	0.60
Zinc - Dissolved (mg/L)	2.12	2.1	0.95

Analyte	GVMW-15B March	GVMW-15B Duplicate March	Relative Percent Difference (RPD, %)
Aluminum - Dissolved (mg/L)	1.08	1.08	0.00
Ammonia (mg/L)	0.04	0.031	25.35
Barium - Dissolved (mg/L)	0.0132	0.0126	4.65
Beryllium - Dissolved (mg/L)	0.0639	0.0638	0.16
Cadmium - Dissolved (mg/L)	0.0032	0.0034	6.06
Chloride - Total (mg/L)	0.63	0.68	7.63
Cobalt - Dissolved (mg/L)	0.108	0.115	6.28
Fluoride - Total F (mg/L)	0.704	0.678	3.76
Iron - Dissolved (mg/L)	31.3	31.3	0.00
Lead - Dissolved (mg/L)	0.072	0.0754	4.61
Manganese - Dissolved (mg/L)	1.95	1.95	0.00
Nickel - Dissolved (mg/L)	0.215	0.217	0.93
Sodium - Dissolved (mg/L)	13.7	13.8	0.73
Sulfate - Total (mg/L)	413	406	1.71
Total Dissolved Solids (mg/L)	585	608	3.86
Uranium - Dissolved (mg/L)	0.00962	0.00983	2.16
Zinc - Dissolved (mg/L)	1.85	1.86	0.54

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Attachment 4

Graphs