Ouray Silver Mines, Inc.
1900 Main St. Unit 1
PO Box 564
Ouray, CO 81427

To: Colorado Division of Reclamation Mining & Safety
1313 Sherman Street, Room 215
Denver, CO 80203

From: Todd Jesse, Environmental Specialist

Date: October 7, 2022

Subject: Quarterly Hydrology Report
Q3 2022 Groundwater Results
DRMS Permit No. M-2012-032

Cc: A. Smith, Alliance Mgmt

Ouray Silver Mines performed third quarter 2022 groundwater sampling on August 23rd, 2022 at the Revenue Mine pursuant to Division of Reclamation Mining and Safety (DRMS) permit No. M-2012-032. The samples were analyzed by ACZ Laboratories in Steamboat Springs, CO. Samples were received by the lab within holding times and within the appropriate temperature. Data were validated and added to OSMI's groundwater database.

Results were within historical levels and below the groundwater standards approved in our permit (see attached summary page for Q3 2022 data).

Copies of laboratory sheets and field forms from the Q3 2022 sampling event are attached.

Station Name	Units	GW Standards	GW-1A			GW-1B			GW-2A			GW-2B			GW-3R			GW-3B			GW-99			GW-0		
Field Sample ID			GW-1A			GW-1B			GW-2A			GW-2B			GW-3R			GW-3B			GW-99			GW-0		
Sample Date			8/23/2022			8/23/2022			8/23/2022			8/23/2022			8/23/2022			8/23/2022			8/23/2022			8/23/2022		
			Result	DQ	RC	Result	DQ	RC	Result	DQ	RC	Result	DQ	RC	Result	DQ	RC	Result	DQ	RC	Result	DQ	RC	Result	DQ	RC
Field Parameters																										
Conductivity, Field	uS/cm	NA	Dry			0.20			1.10			23.50			6.10			0.30			24.10			2.50		
TDS, Field	mg/l	NA	Dry			-99.00			-99.00			-99.00			-99.00			-99.00			-99.00			-99.00		
ORP, Field	mV	NA	Dry			-732.00	J	8	-215.60	J	8	-182.80	J	8	124.20	J	8	-288.70	J	8	-521.00	J	8	167.20	J	8
DO, Field	%	NA	Dry			76.60			94.20			105.40			73.00			75.50			104.40			51.20		
pH, Field	s.u.	NA	Dry			6.92			6.94			6.94			7.23			6.84			6.94			7.49		
Water Temp, Field	deg C	NA	Dry			8.90			7.70			6.40			4.80			6.10			6.30			16.90		
Lab Parameters																										
Aluminum, dissolved	mg/L	5	Dry			<0.05000	U		<0.05000	U		<0.05000	U		<0.05000	U		<0.05000	U		<0.05000	U		<0.05000	U	
Antimony, dissolved	mg/L	Report	Dry			0.00098	B		0.00096	B		0.00075	B		0.00105	B		0.00076	B		0.00075	B		<0.00040	U	
Arsenic, dissolved	mg/L	0.1	Dry			0.00056	B		0.00022	B		0.00024	B		0.00048	B		<0.00020	U		0.00023	B		<0.00020	U	
Barium, dissolved	mg/L	Report	Dry			0.048			0.0511			0.0555			0.0319	B		0.0465			0.0554			<0.00700	U	
Beryllium, dissolved	mg/L	0.1	Dry			<0.00008	U		<0.00008	U		<0.00008	U		<0.00008	U		<0.00008	U		<0.00008	U		<0.00008	U	
Boron, dissolved	mg/L	0.75	Dry			<0.03000	U		<0.03000	U		<0.03000	U		<0.03000	U		<0.03000	U		<0.03000	U		<0.03000	U	
Cadmium, dissolved	mg/L	0.001	Dry			0.000117	B		0.000632			0.000224	B		0.000232	B		0.000053	B		0.000211	B		<0.00005	U	
Calcium, dissolved	mg/L	Report	Dry			28.7	J	7	33.1	J	7	30.4	J	7	33	J	7	31.7	J	7	30.5	J	7	0.34	B	
Chromium, dissolved	mg/L	0.1	Dry			<0.00050	U		<0.00050	U		<0.00050	U		<0.00050	U		<0.00050	U		<0.00050	U		<0.00050	U	
Copper, dissolved	mg/L	0.009	Dry			<0.00080	U		<0.00080	U		<0.00080	U		<0.00080	U		<0.00080	U		<0.00080	U		<0.00080	U	
Iron, dissolved	mg/L	1	Dry			<0.06000	U		<0.06000	U		<0.06000	U		<0.06000	U		<0.06000	U		<0.06000	U		<0.06000	U	
Lead, dissolved	mg/L	0.044	Dry			0.00021	B		0.00035	B		<0.00010	U		<0.00010	U		0.00015	B		<0.00010	U		<0.00010	U	
Magnesium, dissolved	mg/L	Report	Dry			2.35			2.45			2.37			1.8			2.08			2.35			<0.20000	U	
Manganese, dissolved	mg/L	1.672	Dry			<0.01000	U		<0.01000	U		<0.01000	U		<0.01000	U		<0.01000	U		<0.01000	U		<0.01000	U	
Mercury, dissolved	mg/L	0.01	Dry			<0.00020	U		<0.00020	U		<0.00020	U		<0.00020	U		<0.00020	U		<0.00020	U		<0.00020	U	
Molybdenum, dissolved	mg/L	Report	Dry			0.00096			0.00092			0.0009			0.00081			0.00068			0.00095			<0.00020	U	
Nickel, dissolved	mg/L	0.05	Dry			<0.00800	U		<0.00800	U		<0.00800	U		<0.00800	U		<0.00800	U		<0.00800	U		<0.00800	U	
Potassium, dissolved	mg/L	Report	Dry			0.74	B		0.78	B		0.74	B		0.65	B		0.73	B		0.71	B		<0.20000	U	
Selenium, dissolved	mg/L	0.005	Dry			<0.00010	U		0.00014	B		0.00012	B		<0.00010	U		0.0001	B		0.0001	B		<0.00010	U	
Silica, dissolved	mg/L	Report	Dry			5.2	J	7	5.3	J	7	5.5	J	7	4.6	J	7	5.1	J	7	5.4	J	7	2.1		
Silver, dissolved	mg/L	0.0001	Dry			<0.00010	U		<0.00010	U		<0.00010	U		<0.00010	U		<0.00010	U		<0.00010	U		<0.00010	U	
Sodium, dissolved	mg/L	Report	Dry			2.36	J	7	2.48	J	7	2.24	J	7	2.88	J	7	2.46	J	7	2.17	J	7	0.4	B	
Thallium, dissolved	mg/L	Report	Dry			<0.00010	U		<0.00010	U		<0.00010	U		<0.00010	U		<0.00010	U		<0.00010	U		<0.00010	U	
Uranium, dissolved	mg/L	Report	Dry			<0.00010	U		<0.00010	U		<0.00010	U		<0.00010	U		<0.00010	U		<0.00010	U		<0.00010	U	
Vanadium, dissolved	mg/L	0.1	Dry			<0.01000	U		<0.01000	U		<0.01000	U		<0.01000	U		<0.01000	U		<0.01000	U		<0.01000	U	
Zinc, dissolved	mg/L	5	Dry			0.054			0.485			0.266			0.134			0.101			0.254			<0.02000	U	
Bicarbonate as CaCO3	mg/L	Report	Dry			47.1	HJ	7	33.2	HJ	7	32.5	HJ	7	31.7	HJ	7	30.7	HJ	7	31.5	HJ	7	4.7	BH	
Carbonate as CaCO3	mg/L	Report	Dry			<2.00000	H		<2.00000	UH		<2.00000	UH		<2.00000	UH		<2.00000	UH		<2.00000	UH		<2.00000	UH	
Cation-Anion Balance	%	NA	Dry			2.9			0			0			0			0			0			n/a		
Chloride	mg/L	250	Dry			1.07	BJ	7	1.19	BJ	7	1.19	BJ	7	1.39	BJ	7	1.25	BJ	7	1.36	BJ	7	1.26	B	
Conductivity @25C	umhos/cm	Report	Dry			178	J	7	212	J	7	196	J	7	208	J	7	201	J	7	195	J	7	5	B	
Cyanide, total	mg/L	0.005	Dry			<0.00300	UH		<0.00300	UH		<0.00300	UH		<0.00300	UH		<0.00300	UH		<0.00300	UH		<0.00300	UH	
Fluoride	mg/L	2	Dry			<0.15000	U		0.19	B		0.19	B		0.25	U		0.16	B		0.18	B		<0.15000	U	
Hardness as CaCO3 (dissolved)	mg/L	Report	Dry			81	J	7	93	J	7	86	J	7	90	J	7	88	J	7	86	J	7	0.849	B	

Station Name	Units	GW Standards	GW-1A			GW-1B			GW-2A			GW-2B			GW-3R			GW-3B			GW-99			GW-0		
Field Sample ID			GW-1A			GW-1B			GW-2A			GW-2B			GW-3R			GW-3B			GW-99			GW-0		
Sample Date			8/23/2022			8/23/2022			8/23/2022			8/23/2022			8/23/2022			8/23/2022			8/23/2022			8/23/2022		
			Result	DQ	RC	Result	DQ	RC	Result	DQ	RC	Result	DQ	RC	Result	DQ	RC	Result	DQ	RC	Result	DQ	RC	Result	DQ	RC
Hydroxide as CaCO3	mg/L	Report	Dry			<2.00000	UH		<2.00000	UH		<2.00000	UH		<2.00000	UH		<2.00000	UH		<2.00000	UH		<2.00000	UH	
Nitrate/Nitrite as N	mg/L	100	Dry			0.136	J	7	0.929	J	7	0.54	J	7	0.634	J	7	0.355	J	7	0.536	J	7	0.057	B	
pH	units	6-9	Dry			6.8	H		6.6	H		6.6	H		6.6	H		6.6	H		6.5	H		6.4	H	
pH measured at	C	NA	Dry			20.6			20.5			20.7			20.6			20.7			20.9			20.7		
Phosphorus, total	mg/L	NA	Dry			<0.01000	U		<0.01000	U		<0.01000	U		<0.01000	U		<0.01000	U		<0.01000	U		<0.01000	U	
Residue, Filterable (TDS) @18	mg/L	400	Dry			108	H		128	H		122	H		126	H		124	H		116	H		<20.00000	UH	
Residue, Non-Filterable (TSS)	mg/L	Report	Dry			<5.00000	UH		<5.00000	UH		<5.00000	UH		<5.00000	UH		<5.00000	UH		<5.00000	UH		<5.00000	UH	
Sulfate	mg/L	250	Dry			36.8			61			52.9			61			57.2			53			<1.00000	U	
Sum of Anions	meq/L	NA	Dry			1.7	J	7	2	J	7	1.8	J	7	2	J	7	1.9	J	7	1.8	J	7	0.129	B	
Sum of Cations	meq/L	NA	Dry			1.8			2			1.8			2			1.9			1.8				U	
TDS (calculated)	mg/L	NA	Dry			107	J	7	129	J	7	117	J	7	126	J	7	121	J	7	117	J	7	7.53		
TDS (ratio - measured/calculated)		NA	Dry			1.01			0.99			1.04			1			1.02			0.99			n/a		
Total Alkalinity	mg/L	Report	Dry			47.1	H		33.2	H		32.5	H		31.7	H		30.7	H		31.5	H		4.7	BH	

Data Qualifiers

U - Analyte was not detected at the detection limit concentration.
J - Reported value is an estimated concentration.
UJ - Analyte was not detected at an estimated detection limit concentration.
R - Data are rejected and should not be used for any purpose.
UR - The analyte was not detected. The detection limit is unreliable and maybe representative of a false negative. Data are rejected and should not be used for any purpose.
B - Analyte detected at a valude between MDL and PQL. Estimated quantity

Reason Codes

1 - Holding time bust
2 - Method blank contamination
4H - Matrix spike/matrix spike duplicate recovery outside limits (high bias)
4L - Matrix spike/matrix spike duplicate recovery outside limits (low bias)
5 - Matrix spike/matrix spike duplicate precision outside limits
6H - Laboratory control sample recovery outside limits (high bias)
6L - Laboratory control sample recovery outside limits (low bias)
7 - Equipment blank contamination
8 - Field duplicate precision outside limits
9 - Other deficiencies (including cooler temperature)
C - Laboratory control sample/laboratory control sample duplicate precision outside limits
D - Laboratory duplicate precision outside limits
E - Value exceeds linear calibration range
T - Trace level compound, detected below the practical quantitation limit (PQL)

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

September 20, 2022

Report to:
Todd Jesse
Ouray Silver Mines
1900 Main St.
Unit 1
Ouray, CO 81427

Bill to:
Accounts Payable
Ouray Silver Mines
1900 Main St
PO Box 564
Ouray, CO 81427

cc: Accounts Payable, Poppy Staub

Project ID:
ACZ Project ID: L75617

Todd Jesse:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on August 24, 2022. This project has been assigned to ACZ's project number, L75617. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L75617. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after October 20, 2022. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

Mark McNeal has reviewed and approved this report.

Ouray Silver Mines

September 20, 2022

Project ID:
ACZ Project ID: L75617

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 7 groundwater samples from Ouray Silver Mines on August 24, 2022. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L75617. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

Any analyses not performed within EPA recommended holding times have been qualified with an "H" flag.

Sample Analysis

These samples were analyzed for inorganic parameters. The individual methods are referenced on both, the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition the following has been noted with this specific project:

1.Qualifier: H1 Applies to: L75617-01/ALKALINITY
L75617-02/ALKALINITY
L75617-03/ALKALINITY
L75617-04/ALKALINITY
L75617-05/ALKALINITY
L75617-06/ALKALINITY
L75617-07/ALKALINITY

Sample prep or analysis performed past holding time. Samples run on autotitrator at hold, but run went overnight. Samples run past hold.

2. Qualifier: H1 Applies to: L75617-01/TOTAL DISSOLVED SOLIDS
L75617-02/TOTAL DISSOLVED SOLIDS
L75617-03/TOTAL DISSOLVED SOLIDS
L75617-04/TOTAL DISSOLVED SOLIDS
L75617-05/TOTAL DISSOLVED SOLIDS
L75617-06/TOTAL DISSOLVED SOLIDS
L75617-07/TOTAL DISSOLVED SOLIDS

Sample prep or analysis performed past holding time. Sample was received within hold time, login date was past hold. Analysis was performed as soon as possible.

3. Qualifier: H1 Applies to: L75617-01/TOTAL SUSPENDED SOLIDS
L75617-02/TOTAL SUSPENDED SOLIDS
L75617-03/TOTAL SUSPENDED SOLIDS
L75617-04/TOTAL SUSPENDED SOLIDS
L75617-05/TOTAL SUSPENDED SOLIDS
L75617-06/TOTAL SUSPENDED SOLIDS
L75617-07/TOTAL SUSPENDED SOLIDS

Sample revieved withing hold, logged in for analysis past hold. Ran as soon as possible.

Ouray Silver Mines
Project ID:
Sample ID: GW-1B

ACZ Sample ID: ***L75617-01***
Date Sampled: *08/23/22 08:19*
Date Received: *08/24/22*
Sample Matrix: *Groundwater*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								09/07/22 10:41	wgm
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								09/07/22 13:54	wgm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	09/12/22 19:24	aeh
Antimony, dissolved	M200.8 ICP-MS	1	0.00098	B		mg/L	0.0004	0.002	09/07/22 22:51	kja
Arsenic, dissolved	M200.8 ICP-MS	1	0.00056	B		mg/L	0.0002	0.001	09/07/22 22:51	kja
Barium, dissolved	M200.7 ICP	1	0.0480			mg/L	0.009	0.035	09/12/22 19:24	aeh
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	09/08/22 16:01	kja
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	09/12/22 19:24	aeh
Cadmium, dissolved	M200.8 ICP-MS	1	0.000117	B		mg/L	0.00005	0.00025	09/07/22 22:51	kja
Calcium, dissolved	M200.7 ICP	1	28.7			mg/L	0.1	0.5	09/12/22 19:24	aeh
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	09/07/22 22:51	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/07/22 22:51	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	09/12/22 19:24	aeh
Lead, dissolved	M200.8 ICP-MS	1	0.00021	B		mg/L	0.0001	0.0005	09/07/22 22:51	kja
Magnesium, dissolved	M200.7 ICP	1	2.35			mg/L	0.2	1	09/12/22 19:24	aeh
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	09/12/22 19:24	aeh
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/08/22 14:46	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00096			mg/L	0.0002	0.0005	09/07/22 22:51	kja
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	09/12/22 19:24	aeh
Potassium, dissolved	M200.7 ICP	1	0.74	B		mg/L	0.2	1	09/12/22 19:24	aeh
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	09/07/22 22:51	kja
Silica, dissolved	M200.7 ICP	1	5.2			mg/L	0.2	1	09/12/22 19:24	aeh
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 22:51	kja
Sodium, dissolved	M200.7 ICP	1	2.36			mg/L	0.2	1	09/12/22 19:24	aeh
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 22:51	kja
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 22:51	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	09/12/22 19:24	aeh
Zinc, dissolved	M200.7 ICP	1	0.054			mg/L	0.02	0.05	09/12/22 19:24	aeh

Ouray Silver Mines
Project ID:
Sample ID: GW-1B

ACZ Sample ID: ***L75617-01***
Date Sampled: *08/23/22 08:19*
Date Received: *08/24/22*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	47.1	H		mg/L	2	20	09/07/22 0:00	jck
Carbonate as CaCO3		1	<2	UH		mg/L	2	20	09/07/22 0:00	jck
Hydroxide as CaCO3		1	<2	UH		mg/L	2	20	09/07/22 0:00	jck
Total Alkalinity		1	47.1	H	*	mg/L	2	20	09/07/22 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			2.9			%			09/20/22 0:00	calc
Sum of Anions			1.7			meq/L			09/20/22 0:00	calc
Sum of Cations			1.8			meq/L			09/20/22 0:00	calc
Chloride	SM4500Cl-E	1	1.07	B	*	mg/L	1	2	09/08/22 10:46	bls
Conductivity @25C	SM2510B	1	178			umhos/cm	1	10	09/15/22 19:14	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	UH	*	mg/L	0.003	0.01	09/08/22 15:02	gkk
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	09/07/22 18:41	emk
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		81			mg/L	0.2	5	09/20/22 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.136			mg/L	0.02	0.1	09/08/22 3:02	pjb
pH (lab)	SM4500H+ B									
pH		1	6.8	H		units	0.1	0.1	09/07/22 0:00	jck
pH measured at		1	20.6			C	0.1	0.1	09/07/22 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	09/13/22 16:17	gkk
Residue, Filterable (TDS) @180C	SM2540C	1	108	H	*	mg/L	20	40	09/08/22 15:36	mrb
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	UH	*	mg/L	5	20	09/09/22 16:40	mrb
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	36.8		*	mg/L	5	25	09/07/22 13:38	bls
TDS (calculated)	Calculation		107			mg/L			09/20/22 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.01						09/20/22 0:00	calc

Ouray Silver Mines
Project ID:
Sample ID: GW-2A

ACZ Sample ID: ***L75617-02***
Date Sampled: *08/23/22 09:24*
Date Received: *08/24/22*
Sample Matrix: *Groundwater*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								09/07/22 10:49	wgm
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								09/07/22 14:07	wgm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	09/12/22 19:27	aeh
Antimony, dissolved	M200.8 ICP-MS	1	0.00096	B		mg/L	0.0004	0.002	09/07/22 22:53	kja
Arsenic, dissolved	M200.8 ICP-MS	1	0.00022	B		mg/L	0.0002	0.001	09/07/22 22:53	kja
Barium, dissolved	M200.7 ICP	1	0.0511			mg/L	0.009	0.035	09/12/22 19:27	aeh
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	09/08/22 16:03	kja
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	09/12/22 19:27	aeh
Cadmium, dissolved	M200.8 ICP-MS	1	0.000632			mg/L	0.00005	0.00025	09/07/22 22:53	kja
Calcium, dissolved	M200.7 ICP	1	33.1			mg/L	0.1	0.5	09/12/22 19:27	aeh
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	09/07/22 22:53	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/07/22 22:53	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	09/12/22 19:27	aeh
Lead, dissolved	M200.8 ICP-MS	1	0.00035	B		mg/L	0.0001	0.0005	09/07/22 22:53	kja
Magnesium, dissolved	M200.7 ICP	1	2.45			mg/L	0.2	1	09/12/22 19:27	aeh
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	09/12/22 19:27	aeh
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/08/22 14:50	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00092			mg/L	0.0002	0.0005	09/07/22 22:53	kja
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	09/12/22 19:27	aeh
Potassium, dissolved	M200.7 ICP	1	0.78	B		mg/L	0.2	1	09/12/22 19:27	aeh
Selenium, dissolved	M200.8 ICP-MS	1	0.00014	B		mg/L	0.0001	0.00025	09/07/22 22:53	kja
Silica, dissolved	M200.7 ICP	1	5.3			mg/L	0.2	1	09/12/22 19:27	aeh
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 22:53	kja
Sodium, dissolved	M200.7 ICP	1	2.48			mg/L	0.2	1	09/12/22 19:27	aeh
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 22:53	kja
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 22:53	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	09/12/22 19:27	aeh
Zinc, dissolved	M200.7 ICP	1	0.485			mg/L	0.02	0.05	09/12/22 19:27	aeh

Ouray Silver Mines
Project ID:
Sample ID: GW-2A

ACZ Sample ID: ***L75617-02***
Date Sampled: *08/23/22 09:24*
Date Received: *08/24/22*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	33.2	H		mg/L	2	20	09/07/22 0:00	jck
Carbonate as CaCO3		1	<2	UH		mg/L	2	20	09/07/22 0:00	jck
Hydroxide as CaCO3		1	<2	UH		mg/L	2	20	09/07/22 0:00	jck
Total Alkalinity		1	33.2	H	*	mg/L	2	20	09/07/22 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			09/20/22 0:00	calc
Sum of Anions			2			meq/L			09/20/22 0:00	calc
Sum of Cations			2.0			meq/L			09/20/22 0:00	calc
Chloride	SM4500Cl-E	1	1.19	B	*	mg/L	1	2	09/08/22 10:47	bls
Conductivity @25C	SM2510B	1	212			umhos/cm	1	10	09/15/22 19:16	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	UH	*	mg/L	0.003	0.01	09/08/22 15:03	gkk
Fluoride	SM4500F-C	1	0.19	B		mg/L	0.15	0.35	09/07/22 18:49	emk
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		93			mg/L	0.2	5	09/20/22 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.929			mg/L	0.02	0.1	09/08/22 3:03	pjb
pH (lab)	SM4500H+ B									
pH		1	6.6	H		units	0.1	0.1	09/07/22 0:00	jck
pH measured at		1	20.5			C	0.1	0.1	09/07/22 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	09/13/22 16:18	gkk
Residue, Filterable (TDS) @180C	SM2540C	1	128	H	*	mg/L	20	40	09/08/22 15:39	mrb
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	UH	*	mg/L	5	20	09/09/22 16:43	mrb
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	61.0		*	mg/L	5	25	09/07/22 13:38	bls
TDS (calculated)	Calculation		129			mg/L			09/20/22 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.99						09/20/22 0:00	calc

Ouray Silver Mines
Project ID:
Sample ID: GW-2B

ACZ Sample ID: ***L75617-03***
Date Sampled: *08/23/22 09:57*
Date Received: *08/24/22*
Sample Matrix: *Groundwater*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								09/07/22 10:58	wgm
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								09/07/22 14:19	wgm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	09/12/22 19:30	aeh
Antimony, dissolved	M200.8 ICP-MS	1	0.00075	B		mg/L	0.0004	0.002	09/07/22 22:54	kja
Arsenic, dissolved	M200.8 ICP-MS	1	0.00024	B		mg/L	0.0002	0.001	09/07/22 22:54	kja
Barium, dissolved	M200.7 ICP	1	0.0555			mg/L	0.009	0.035	09/12/22 19:30	aeh
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	09/08/22 16:05	kja
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	09/12/22 19:30	aeh
Cadmium, dissolved	M200.8 ICP-MS	1	0.000224	B		mg/L	0.00005	0.00025	09/07/22 22:54	kja
Calcium, dissolved	M200.7 ICP	1	30.4			mg/L	0.1	0.5	09/12/22 19:30	aeh
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	09/07/22 22:54	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/07/22 22:54	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	09/12/22 19:30	aeh
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 22:54	kja
Magnesium, dissolved	M200.7 ICP	1	2.37			mg/L	0.2	1	09/12/22 19:30	aeh
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	09/12/22 19:30	aeh
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/08/22 14:51	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00090			mg/L	0.0002	0.0005	09/07/22 22:54	kja
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	09/12/22 19:30	aeh
Potassium, dissolved	M200.7 ICP	1	0.74	B		mg/L	0.2	1	09/12/22 19:30	aeh
Selenium, dissolved	M200.8 ICP-MS	1	0.00012	B		mg/L	0.0001	0.00025	09/07/22 22:54	kja
Silica, dissolved	M200.7 ICP	1	5.5			mg/L	0.2	1	09/12/22 19:30	aeh
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 22:54	kja
Sodium, dissolved	M200.7 ICP	1	2.24			mg/L	0.2	1	09/12/22 19:30	aeh
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 22:54	kja
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 22:54	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	09/12/22 19:30	aeh
Zinc, dissolved	M200.7 ICP	1	0.266			mg/L	0.02	0.05	09/12/22 19:30	aeh

Ouray Silver Mines
Project ID:
Sample ID: GW-2B

ACZ Sample ID: ***L75617-03***
Date Sampled: *08/23/22 09:57*
Date Received: *08/24/22*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	32.5	H		mg/L	2	20	09/07/22 0:00	jck
Carbonate as CaCO3		1	<2	UH		mg/L	2	20	09/07/22 0:00	jck
Hydroxide as CaCO3		1	<2	UH		mg/L	2	20	09/07/22 0:00	jck
Total Alkalinity		1	32.5	H	*	mg/L	2	20	09/07/22 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			09/20/22 0:00	calc
Sum of Anions			1.8			meq/L			09/20/22 0:00	calc
Sum of Cations			1.8			meq/L			09/20/22 0:00	calc
Chloride	SM4500Cl-E	1	1.19	B	*	mg/L	1	2	09/08/22 10:48	bls
Conductivity @25C	SM2510B	1	196			umhos/cm	1	10	09/15/22 19:17	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	UH	*	mg/L	0.003	0.01	09/08/22 15:04	gkk
Fluoride	SM4500F-C	1	0.19	B		mg/L	0.15	0.35	09/07/22 18:57	emk
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		86			mg/L	0.2	5	09/20/22 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.540			mg/L	0.02	0.1	09/08/22 3:09	pjb
pH (lab)	SM4500H+ B									
pH		1	6.6	H		units	0.1	0.1	09/07/22 0:00	jck
pH measured at		1	20.7			C	0.1	0.1	09/07/22 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	09/13/22 16:19	gkk
Residue, Filterable (TDS) @180C	SM2540C	1	122	H	*	mg/L	20	40	09/08/22 15:41	mrb
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	UH	*	mg/L	5	20	09/09/22 16:45	mrb
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	52.9		*	mg/L	5	25	09/07/22 13:42	bls
TDS (calculated)	Calculation		117			mg/L			09/20/22 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.04						09/20/22 0:00	calc

Ouray Silver Mines
Project ID:
Sample ID: GW-3B

ACZ Sample ID: ***L75617-04***
Date Sampled: *08/23/22 10:47*
Date Received: *08/24/22*
Sample Matrix: *Groundwater*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								09/07/22 11:16	wgm
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								09/07/22 14:32	wgm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	09/12/22 19:34	aeh
Antimony, dissolved	M200.8 ICP-MS	1	0.00076	B		mg/L	0.0004	0.002	09/07/22 22:56	kja
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	09/07/22 22:56	kja
Barium, dissolved	M200.7 ICP	1	0.0465			mg/L	0.009	0.035	09/12/22 19:34	aeh
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	09/08/22 16:07	kja
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	09/12/22 19:34	aeh
Cadmium, dissolved	M200.8 ICP-MS	1	0.000053	B		mg/L	0.00005	0.00025	09/07/22 22:56	kja
Calcium, dissolved	M200.7 ICP	1	31.7			mg/L	0.1	0.5	09/12/22 19:34	aeh
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	09/07/22 22:56	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/07/22 22:56	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	09/12/22 19:34	aeh
Lead, dissolved	M200.8 ICP-MS	1	0.00015	B		mg/L	0.0001	0.0005	09/07/22 22:56	kja
Magnesium, dissolved	M200.7 ICP	1	2.08			mg/L	0.2	1	09/12/22 19:34	aeh
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	09/12/22 19:34	aeh
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/08/22 14:52	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00068			mg/L	0.0002	0.0005	09/07/22 22:56	kja
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	09/12/22 19:34	aeh
Potassium, dissolved	M200.7 ICP	1	0.73	B		mg/L	0.2	1	09/12/22 19:34	aeh
Selenium, dissolved	M200.8 ICP-MS	1	0.00010	B		mg/L	0.0001	0.00025	09/07/22 22:56	kja
Silica, dissolved	M200.7 ICP	1	5.1			mg/L	0.2	1	09/12/22 19:34	aeh
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 22:56	kja
Sodium, dissolved	M200.7 ICP	1	2.46			mg/L	0.2	1	09/12/22 19:34	aeh
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 22:56	kja
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 22:56	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	09/12/22 19:34	aeh
Zinc, dissolved	M200.7 ICP	1	0.101			mg/L	0.02	0.05	09/12/22 19:34	aeh

Ouray Silver Mines
Project ID:
Sample ID: GW-3B

ACZ Sample ID: ***L75617-04***
Date Sampled: *08/23/22 10:47*
Date Received: *08/24/22*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	30.7	H		mg/L	2	20	09/07/22 0:00	jck
Carbonate as CaCO3		1	<2	UH		mg/L	2	20	09/07/22 0:00	jck
Hydroxide as CaCO3		1	<2	UH		mg/L	2	20	09/07/22 0:00	jck
Total Alkalinity		1	30.7	H	*	mg/L	2	20	09/07/22 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			09/20/22 0:00	calc
Sum of Anions			1.9			meq/L			09/20/22 0:00	calc
Sum of Cations			1.9			meq/L			09/20/22 0:00	calc
Chloride	SM4500Cl-E	1	1.25	B	*	mg/L	1	2	09/08/22 10:49	bls
Conductivity @25C	SM2510B	1	201			umhos/cm	1	10	09/15/22 19:19	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	UH	*	mg/L	0.003	0.01	09/08/22 15:09	gkk
Fluoride	SM4500F-C	1	0.16	B		mg/L	0.15	0.35	09/07/22 19:05	emk
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		88			mg/L	0.2	5	09/20/22 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.355			mg/L	0.02	0.1	09/08/22 3:10	pjb
pH (lab)	SM4500H+ B									
pH		1	6.6	H		units	0.1	0.1	09/07/22 0:00	jck
pH measured at		1	20.7			C	0.1	0.1	09/07/22 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	09/13/22 16:20	gkk
Residue, Filterable (TDS) @180C	SM2540C	1	124	H	*	mg/L	20	40	09/08/22 15:44	mrb
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	UH	*	mg/L	5	20	09/09/22 16:48	mrb
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	57.2		*	mg/L	5	25	09/07/22 13:42	bls
TDS (calculated)	Calculation		121			mg/L			09/20/22 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.02						09/20/22 0:00	calc

Ouray Silver Mines
Project ID:
Sample ID: GW-3R

ACZ Sample ID: ***L75617-05***
Date Sampled: *08/23/22 11:39*
Date Received: *08/24/22*
Sample Matrix: *Groundwater*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								09/07/22 11:33	wgm
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								09/07/22 14:56	wgm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	09/12/22 19:49	aeh
Antimony, dissolved	M200.8 ICP-MS	1	0.00105	B		mg/L	0.0004	0.002	09/07/22 22:58	kja
Arsenic, dissolved	M200.8 ICP-MS	1	0.00048	B		mg/L	0.0002	0.001	09/07/22 22:58	kja
Barium, dissolved	M200.7 ICP	1	0.0319	B		mg/L	0.009	0.035	09/12/22 19:49	aeh
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	09/08/22 16:08	kja
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	09/12/22 19:49	aeh
Cadmium, dissolved	M200.8 ICP-MS	1	0.000232	B		mg/L	0.00005	0.00025	09/07/22 22:58	kja
Calcium, dissolved	M200.7 ICP	1	33.0			mg/L	0.1	0.5	09/12/22 19:49	aeh
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	09/07/22 22:58	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/07/22 22:58	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	09/12/22 19:49	aeh
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 22:58	kja
Magnesium, dissolved	M200.7 ICP	1	1.80			mg/L	0.2	1	09/12/22 19:49	aeh
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	09/12/22 19:49	aeh
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/08/22 14:53	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00081			mg/L	0.0002	0.0005	09/07/22 22:58	kja
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	09/12/22 19:49	aeh
Potassium, dissolved	M200.7 ICP	1	0.65	B		mg/L	0.2	1	09/12/22 19:49	aeh
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	09/07/22 22:58	kja
Silica, dissolved	M200.7 ICP	1	4.6			mg/L	0.2	1	09/12/22 19:49	aeh
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 22:58	kja
Sodium, dissolved	M200.7 ICP	1	2.88			mg/L	0.2	1	09/12/22 19:49	aeh
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 22:58	kja
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 22:58	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	09/12/22 19:49	aeh
Zinc, dissolved	M200.7 ICP	1	0.134			mg/L	0.02	0.05	09/12/22 19:49	aeh

Ouray Silver Mines
Project ID:
Sample ID: GW-3R

ACZ Sample ID: ***L75617-05***
Date Sampled: *08/23/22 11:39*
Date Received: *08/24/22*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	31.7	H		mg/L	2	20	09/07/22 0:00	jck
Carbonate as CaCO3		1	<2	UH		mg/L	2	20	09/07/22 0:00	jck
Hydroxide as CaCO3		1	<2	UH		mg/L	2	20	09/07/22 0:00	jck
Total Alkalinity		1	31.7	H	*	mg/L	2	20	09/07/22 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			09/20/22 0:00	calc
Sum of Anions			2			meq/L			09/20/22 0:00	calc
Sum of Cations			2			meq/L			09/20/22 0:00	calc
Chloride	SM4500Cl-E	1	1.39	B	*	mg/L	1	2	09/08/22 10:50	bls
Conductivity @25C	SM2510B	1	208			umhos/cm	1	10	09/15/22 19:21	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	UH	*	mg/L	0.003	0.01	09/08/22 15:11	gkk
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	09/07/22 19:13	emk
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		90			mg/L	0.2	5	09/20/22 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.634			mg/L	0.02	0.1	09/08/22 3:11	pjb
pH (lab)	SM4500H+ B									
pH		1	6.6	H		units	0.1	0.1	09/07/22 0:00	jck
pH measured at		1	20.6			C	0.1	0.1	09/07/22 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	09/13/22 16:22	gkk
Residue, Filterable (TDS) @180C	SM2540C	1	126	H	*	mg/L	20	40	09/08/22 15:47	mrb
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	UH	*	mg/L	5	20	09/09/22 16:50	mrb
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	61.0		*	mg/L	5	25	09/07/22 13:44	bls
TDS (calculated)	Calculation		126			mg/L			09/20/22 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.00						09/20/22 0:00	calc

Ouray Silver Mines
Project ID:
Sample ID: GW-0

ACZ Sample ID: ***L75617-06***
Date Sampled: *08/23/22 12:19*
Date Received: *08/24/22*
Sample Matrix: *Groundwater*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								09/07/22 11:42	wgm
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								09/07/22 15:09	wgm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	09/12/22 19:52	aeh
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	09/07/22 23:00	kja
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	09/07/22 23:00	kja
Barium, dissolved	M200.7 ICP	1	<0.009	U		mg/L	0.009	0.035	09/12/22 19:52	aeh
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	09/08/22 16:10	kja
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	09/12/22 19:52	aeh
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	09/07/22 23:00	kja
Calcium, dissolved	M200.7 ICP	1	0.34	B		mg/L	0.1	0.5	09/12/22 19:52	aeh
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	09/07/22 23:00	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/07/22 23:00	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	09/12/22 19:52	aeh
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 23:00	kja
Magnesium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	09/12/22 19:52	aeh
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	09/12/22 19:52	aeh
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/08/22 15:28	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.0005	09/07/22 23:00	kja
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	09/12/22 19:52	aeh
Potassium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	09/12/22 19:52	aeh
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	09/07/22 23:00	kja
Silica, dissolved	M200.7 ICP	1	2.1			mg/L	0.2	1	09/12/22 19:52	aeh
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 23:00	kja
Sodium, dissolved	M200.7 ICP	1	0.40	B		mg/L	0.2	1	09/12/22 19:52	aeh
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 23:00	kja
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 23:00	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	09/12/22 19:52	aeh
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	09/12/22 19:52	aeh

Ouray Silver Mines
Project ID:
Sample ID: GW-0

ACZ Sample ID: ***L75617-06***
Date Sampled: *08/23/22 12:19*
Date Received: *08/24/22*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	4.7	BH		mg/L	2	20	09/07/22 0:00	jck
Carbonate as CaCO3		1	<2	UH		mg/L	2	20	09/07/22 0:00	jck
Hydroxide as CaCO3		1	<2	UH		mg/L	2	20	09/07/22 0:00	jck
Total Alkalinity		1	4.7	BH	*	mg/L	2	20	09/07/22 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			n/a			%			09/20/22 0:00	calc
Sum of Anions			0.129	B		meq/L			09/20/22 0:00	calc
Sum of Cations			<	U		meq/L			09/20/22 0:00	calc
Chloride	SM4500Cl-E	1	1.26	B	*	mg/L	1	2	09/08/22 10:50	bls
Conductivity @25C	SM2510B	1	5	B		umhos/cm	1	10	09/15/22 19:22	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	UH	*	mg/L	0.003	0.01	09/08/22 15:12	gkk
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	09/07/22 19:19	emk
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		0.849	B		mg/L	0.2	5	09/20/22 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.057	B		mg/L	0.02	0.1	09/08/22 3:12	pjb
pH (lab)	SM4500H+ B									
pH		1	6.4	H		units	0.1	0.1	09/07/22 0:00	jck
pH measured at		1	20.7			C	0.1	0.1	09/07/22 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	09/13/22 16:23	gkk
Residue, Filterable (TDS) @180C	SM2540C	1	<20	UH	*	mg/L	20	40	09/08/22 15:49	mrb
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	UH	*	mg/L	5	20	09/09/22 16:53	mrb
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	<1	U	*	mg/L	1	5	09/07/22 13:34	bls
TDS (calculated)	Calculation		7.53			mg/L			09/20/22 0:00	calc
TDS (ratio - measured/calculated)	Calculation		n/a						09/20/22 0:00	calc

Ouray Silver Mines
Project ID:
Sample ID: GW-99

ACZ Sample ID: ***L75617-07***
Date Sampled: *08/23/22 10:03*
Date Received: *08/24/22*
Sample Matrix: *Groundwater*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								09/07/22 11:51	wgm
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								09/07/22 15:21	wgm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	09/12/22 19:55	aeh
Antimony, dissolved	M200.8 ICP-MS	1	0.00075	B		mg/L	0.0004	0.002	09/07/22 23:02	kja
Arsenic, dissolved	M200.8 ICP-MS	1	0.00023	B		mg/L	0.0002	0.001	09/07/22 23:02	kja
Barium, dissolved	M200.7 ICP	1	0.0554			mg/L	0.009	0.035	09/12/22 19:55	aeh
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	09/08/22 16:12	kja
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	09/12/22 19:55	aeh
Cadmium, dissolved	M200.8 ICP-MS	1	0.000211	B		mg/L	0.00005	0.00025	09/07/22 23:02	kja
Calcium, dissolved	M200.7 ICP	1	30.5			mg/L	0.1	0.5	09/12/22 19:55	aeh
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	09/07/22 23:02	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/07/22 23:02	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	09/12/22 19:55	aeh
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 23:02	kja
Magnesium, dissolved	M200.7 ICP	1	2.35			mg/L	0.2	1	09/12/22 19:55	aeh
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	09/12/22 19:55	aeh
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/08/22 15:29	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00095			mg/L	0.0002	0.0005	09/07/22 23:02	kja
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	09/12/22 19:55	aeh
Potassium, dissolved	M200.7 ICP	1	0.71	B		mg/L	0.2	1	09/12/22 19:55	aeh
Selenium, dissolved	M200.8 ICP-MS	1	0.00010	B		mg/L	0.0001	0.00025	09/07/22 23:02	kja
Silica, dissolved	M200.7 ICP	1	5.4			mg/L	0.2	1	09/12/22 19:55	aeh
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 23:02	kja
Sodium, dissolved	M200.7 ICP	1	2.17			mg/L	0.2	1	09/12/22 19:55	aeh
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 23:02	kja
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/07/22 23:02	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	09/12/22 19:55	aeh
Zinc, dissolved	M200.7 ICP	1	0.254			mg/L	0.02	0.05	09/12/22 19:55	aeh

Ouray Silver Mines
Project ID:
Sample ID: GW-99

ACZ Sample ID: ***L75617-07***
Date Sampled: *08/23/22 10:03*
Date Received: *08/24/22*
Sample Matrix: *Groundwater*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	31.5	H		mg/L	2	20	09/07/22 0:00	jck
Carbonate as CaCO3		1	<2	UH		mg/L	2	20	09/07/22 0:00	jck
Hydroxide as CaCO3		1	<2	UH		mg/L	2	20	09/07/22 0:00	jck
Total Alkalinity		1	31.5	H	*	mg/L	2	20	09/07/22 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			09/20/22 0:00	calc
Sum of Anions			1.8			meq/L			09/20/22 0:00	calc
Sum of Cations			1.8			meq/L			09/20/22 0:00	calc
Chloride	SM4500Cl-E	1	1.36	B	*	mg/L	1	2	09/08/22 10:51	bls
Conductivity @25C	SM2510B	1	195			umhos/cm	1	10	09/15/22 19:24	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	UH	*	mg/L	0.003	0.01	09/08/22 15:13	gkk
Fluoride	SM4500F-C	1	0.18	B		mg/L	0.15	0.35	09/07/22 19:27	emk
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		86			mg/L	0.2	5	09/20/22 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.536			mg/L	0.02	0.1	09/08/22 3:14	pjb
pH (lab)	SM4500H+ B									
pH		1	6.5	H		units	0.1	0.1	09/07/22 0:00	jck
pH measured at		1	20.9			C	0.1	0.1	09/07/22 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	09/13/22 16:24	gkk
Residue, Filterable (TDS) @180C	SM2540C	1	116	H	*	mg/L	20	40	09/08/22 15:52	mrb
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	UH	*	mg/L	5	20	09/09/22 16:56	mrb
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	53.0		*	mg/L	5	25	09/07/22 13:44	bls
TDS (calculated)	Calculation		117			mg/L			09/20/22 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.99						09/20/22 0:00	calc

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

(1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4) EPA SW-846. Test Methods for Evaluating Solid Waste.
(5) Standard Methods for the Examination of Water and Wastewater.

Comments

(1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:
https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf

REP001.03.15.02

OURAYSM

ACZ Project ID: ***L75617***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549911													
WG549911PBW1	PBW	09/06/22 20:23				16	mg/L		-20	20			
WG549911LCSW3	LCSW	09/06/22 20:41	WC220901-7	820.0001		761	mg/L	93	90	110			
WG549911LCSW6	LCSW	09/06/22 23:17	WC220901-7	820.0001		775.3	mg/L	95	90	110			
WG549911PBW2	PBW	09/06/22 23:25				16.6	mg/L		-20	20			
WG549911LCSW9	LCSW	09/07/22 2:00	WC220901-7	820.0001		781	mg/L	95	90	110			
WG549911PBW3	PBW	09/07/22 2:08				20.6	mg/L		-20	20			B4 B7 BF
WG549911LCSW12	LCSW	09/07/22 4:20	WC220901-7	820.0001		779.2	mg/L	95	90	110			
WG549911PBW4	PBW	09/07/22 4:28				18.2	mg/L		-20	20			
L75618-01DUP	DUP	09/07/22 7:08			60.8	64.2	mg/L				5	20	
WG549911LCSW15	LCSW	09/07/22 7:28	WC220901-7	820.0001		784.7	mg/L	96	90	110			

Aluminum, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG550265													
WG550265ICV	ICV	09/12/22 18:10	II220906-1	2		2.033	mg/L	102	95	105			
WG550265ICB	ICB	09/12/22 18:16				U	mg/L		-0.15	0.15			
WG550265LFB	LFB	09/12/22 18:28	II220831-2	1.0008		1.025	mg/L	102	85	115			
L75617-04AS	AS	09/12/22 19:43	II220831-2	1.0008	U	1.029	mg/L	103	85	115			
L75617-04ASD	ASD	09/12/22 19:46	II220831-2	1.0008	U	1.01	mg/L	101	85	115	2	20	

Antimony, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549973													
WG549973ICV	ICV	09/07/22 22:07	MS220701-3	.0201		.01861	mg/L	93	90	110			
WG549973ICB	ICB	09/07/22 22:09				U	mg/L		-0.00088	0.00088			
WG549973LFB	LFB	09/07/22 22:10	MS220822-2	.01		.01073	mg/L	107	85	115			
L75577-10AS	AS	09/07/22 22:42	MS220822-2	.01	U	.00985	mg/L	99	70	130			
L75577-10ASD	ASD	09/07/22 22:43	MS220822-2	.01	U	.01038	mg/L	104	70	130	5	20	

Arsenic, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549973													
WG549973ICV	ICV	09/07/22 22:07	MS220701-3	.05		.05148	mg/L	103	90	110			
WG549973ICB	ICB	09/07/22 22:09				U	mg/L		-0.00044	0.00044			
WG549973LFB	LFB	09/07/22 22:10	MS220822-2	.05005		.05349	mg/L	107	85	115			
L75577-10AS	AS	09/07/22 22:42	MS220822-2	.05005	.00027	.05519	mg/L	110	70	130			
L75577-10ASD	ASD	09/07/22 22:43	MS220822-2	.05005	.00027	.05719	mg/L	114	70	130	4	20	

Barium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG550265													
WG550265ICV	ICV	09/12/22 18:10	II220906-1	2		2.0135	mg/L	101	95	105			
WG550265ICB	ICB	09/12/22 18:16				U	mg/L		-0.027	0.027			
WG550265LFB	LFB	09/12/22 18:28	II220831-2	.502		.4954	mg/L	99	85	115			
L75617-04AS	AS	09/12/22 19:43	II220831-2	.502	.0465	.5442	mg/L	99	85	115			
L75617-04ASD	ASD	09/12/22 19:46	II220831-2	.502	.0465	.5257	mg/L	95	85	115	3	20	

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ACZ Project ID: ***L75617***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Beryllium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG550084													
WG550084ICV	ICV	09/08/22 15:17	MS220701-3	.05		.050823	mg/L	102	90	110			
WG550084ICB	ICB	09/08/22 15:19				U	mg/L		-0.000176	0.000176			
WG550084LFB	LFB	09/08/22 15:21	MS220822-2	.05005		.048855	mg/L	98	85	115			
L75499-05AS	AS	09/08/22 15:54	MS220822-2	.05005	U	.053426	mg/L	107	70	130			
L75499-05ASD	ASD	09/08/22 15:56	MS220822-2	.05005	U	.053611	mg/L	107	70	130	0	20	

Boron, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG550265													
WG550265ICV	ICV	09/12/22 18:10	II220906-1	2.17		2.27	mg/L	105	95	105			
WG550265ICB	ICB	09/12/22 18:16				U	mg/L		-0.09	0.09			
WG550265LFB	LFB	09/12/22 18:28	II220831-2	.5005		.511	mg/L	102	85	115			
L75617-04AS	AS	09/12/22 19:43	II220831-2	.5005	U	.503	mg/L	100	85	115			
L75617-04ASD	ASD	09/12/22 19:46	II220831-2	.5005	U	.484	mg/L	97	85	115	4	20	

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549973													
WG549973ICV	ICV	09/07/22 22:07	MS220701-3	.05		.050329	mg/L	101	90	110			
WG549973ICB	ICB	09/07/22 22:09				U	mg/L		-0.00011	0.00011			
WG549973LFB	LFB	09/07/22 22:10	MS220822-2	.05005		.051108	mg/L	102	85	115			
L75577-10AS	AS	09/07/22 22:42	MS220822-2	.05005	.000054	.049871	mg/L	100	70	130			
L75577-10ASD	ASD	09/07/22 22:43	MS220822-2	.05005	.000054	.051653	mg/L	103	70	130	4	20	

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG550265													
WG550265ICV	ICV	09/12/22 18:10	II220906-1	100		103.43	mg/L	103	95	105			
WG550265ICB	ICB	09/12/22 18:16				U	mg/L		-0.3	0.3			
WG550265LFB	LFB	09/12/22 18:28	II220831-2	67.98862		70.1	mg/L	103	85	115			
L75617-04AS	AS	09/12/22 19:43	II220831-2	67.98862	31.7	100.8	mg/L	102	85	115			
L75617-04ASD	ASD	09/12/22 19:46	II220831-2	67.98862	31.7	98.93	mg/L	99	85	115	2	20	

Chloride SM4500Cl-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG550035													
WG550035ICV	ICV	09/08/22 10:28	WI220502-12	54.945		54.61	mg/L	99	90	110			
WG550035ICB	ICB	09/08/22 10:28				U	mg/L		-3	3			
WG550035LFB1	LFB	09/08/22 10:29	WI220328-1	29.97		27.77	mg/L	93	90	110			
WG550035LFB2	LFB	09/08/22 10:44	WI220328-1	29.97		28.65	mg/L	96	90	110			
L75617-02AS	AS	09/08/22 10:48	WI220328-1	29.97	1.19	29.39	mg/L	94	90	110			
L75617-03DUP	DUP	09/08/22 10:49			1.19	1.29	mg/L				8	20	RA

OURAYSM

ACZ Project ID: ***L75617***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Chromium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549973													
WG549973ICV	ICV	09/07/22 22:07	MS220701-3	.05		.05089	mg/L	102	90	110			
WG549973ICB	ICB	09/07/22 22:09				U	mg/L		-0.0011	0.0011			
WG549973LFB	LFB	09/07/22 22:10	MS220822-2	.0501		.05355	mg/L	107	85	115			
L75577-10AS	AS	09/07/22 22:42	MS220822-2	.0501	.00086	.05218	mg/L	102	70	130			
L75577-10ASD	ASD	09/07/22 22:43	MS220822-2	.0501	.00086	.05378	mg/L	106	70	130	3	20	

Conductivity @25C SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG550631													
WG550631LCSW2	LCSW	09/15/22 17:55	PCN623318	1409		1413	umhos/cm	100	90	110			
L75625-02DUP	DUP	09/15/22 19:48			3070	3080	umhos/cm				0	20	
WG550631LCSW5	LCSW	09/15/22 19:54	PCN623318	1409		1408	umhos/cm	100	90	110			
WG550631LCSW8	LCSW	09/15/22 23:48	PCN623318	1409		1406	umhos/cm	100	90	110			
WG550631LCSW11	LCSW	09/16/22 3:33	PCN623318	1409		1406	umhos/cm	100	90	110			
WG550631LCSW14	LCSW	09/16/22 6:12	PCN623318	1409		1399	umhos/cm	99	90	110			

Copper, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549973													
WG549973ICV	ICV	09/07/22 22:07	MS220701-3	.05		.05446	mg/L	109	90	110			
WG549973ICB	ICB	09/07/22 22:09				U	mg/L		-0.00176	0.00176			
WG549973LFB	LFB	09/07/22 22:10	MS220822-2	.05		.05427	mg/L	109	85	115			
L75577-10AS	AS	09/07/22 22:42	MS220822-2	.05	U	.05248	mg/L	105	70	130			
L75577-10ASD	ASD	09/07/22 22:43	MS220822-2	.05	U	.05486	mg/L	110	70	130	4	20	

Cyanide, total M335.4 - Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG550083													
WG550083ICV	ICV	09/08/22 14:44	WI220901-6	.3003		.2989	mg/L	100	90	110			
WG550083ICB	ICB	09/08/22 14:45				U	mg/L		-0.003	0.003			
WG549916LRB	LRB	09/08/22 14:46				U	mg/L		-0.003	0.003			
WG549916LFB	LFB	09/08/22 14:46	WI220901-3	.2		.2433	mg/L	122	90	110			LA
L75617-03LFM	LFM	09/08/22 15:08	WI220901-3	.2	U	.2437	mg/L	122	90	110			M1
L75617-04DUP	DUP	09/08/22 15:10			U	U	mg/L				0	20	RA

Fluoride SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549931													
WG549931ICV	ICV	09/07/22 10:20	WC220831-1	2.008		2.01	mg/L	100	90	110			
WG549931ICB	ICB	09/07/22 10:26				U	mg/L		-0.3	0.3			
WG549932													
WG549932ICV	ICV	09/07/22 11:55	WC220831-1	2.008		1.98	mg/L	99	90	110			
WG549932ICB	ICB	09/07/22 12:01				U	mg/L		-0.3	0.3			
WG549932LFB1	LFB	09/07/22 12:11	WC220606-1	5.02		4.88	mg/L	97	90	110			
WG549932LFB2	LFB	09/07/22 15:53	WC220606-1	5.02		4.95	mg/L	99	90	110			
L75474-03AS	AS	09/07/22 17:56	WC220606-1	5.02	U	4.93	mg/L	98	90	110			
L75474-03ASD	ASD	09/07/22 18:17	WC220606-1	5.02	U	5.05	mg/L	101	90	110	2	20	

OURAYSM

ACZ Project ID: ***L75617***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Iron, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG550265													
WG550265ICV	ICV	09/12/22 18:10	II220906-1	2		2.016	mg/L	101	95	105			
WG550265ICB	ICB	09/12/22 18:16				U	mg/L		-0.18	0.18			
WG550265LFB	LFB	09/12/22 18:28	II220831-2	1.0013		1.01	mg/L	101	85	115			
L75617-04AS	AS	09/12/22 19:43	II220831-2	1.0013	U	.997	mg/L	100	85	115			
L75617-04ASD	ASD	09/12/22 19:46	II220831-2	1.0013	U	.956	mg/L	95	85	115	4	20	

Lead, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549973													
WG549973ICV	ICV	09/07/22 22:07	MS220701-3	.05		.0513	mg/L	103	90	110			
WG549973ICB	ICB	09/07/22 22:09				U	mg/L		-0.00022	0.00022			
WG549973LFB	LFB	09/07/22 22:10	MS220822-2	.0501		.05283	mg/L	105	85	115			
L75577-10AS	AS	09/07/22 22:42	MS220822-2	.0501	U	.05294	mg/L	106	70	130			
L75577-10ASD	ASD	09/07/22 22:43	MS220822-2	.0501	U	.05417	mg/L	108	70	130	2	20	

Magnesium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG550265													
WG550265ICV	ICV	09/12/22 18:10	II220906-1	100		99.75	mg/L	100	95	105			
WG550265ICB	ICB	09/12/22 18:16				U	mg/L		-0.6	0.6			
WG550265LFB	LFB	09/12/22 18:28	II220831-2	49.99809		49.27	mg/L	99	85	115			
L75617-04AS	AS	09/12/22 19:43	II220831-2	49.99809	2.08	50.24	mg/L	96	85	115			
L75617-04ASD	ASD	09/12/22 19:46	II220831-2	49.99809	2.08	49.22	mg/L	94	85	115	2	20	

Manganese, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG550265													
WG550265ICV	ICV	09/12/22 18:10	II220906-1	2		1.985	mg/L	99	95	105			
WG550265ICB	ICB	09/12/22 18:16				U	mg/L		-0.03	0.03			
WG550265LFB	LFB	09/12/22 18:28	II220831-2	.499		.505	mg/L	101	85	115			
L75617-04AS	AS	09/12/22 19:43	II220831-2	.499	U	.502	mg/L	101	85	115			
L75617-04ASD	ASD	09/12/22 19:46	II220831-2	.499	U	.484	mg/L	97	85	115	4	20	

OURAYSM

ACZ Project ID: ***L75617***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Mercury, dissolved M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG550013													
WG550013ICV	ICV	09/08/22 14:25	HG220830-3	.005005		.00512	mg/L	102	95	105			
WG550013ICB	ICB	09/08/22 14:26				U	mg/L		-0.0002	0.0002			
WG550013LRB	LRB	09/08/22 14:28				U	mg/L		-0.00044	0.00044			
WG550013LFB	LFB	09/08/22 14:29	HG220830-6	.002002		.00202	mg/L	101	85	115			
L75617-01LFM	LFM	09/08/22 14:47	HG220830-6	.002002	U	.00208	mg/L	104	85	115			
L75617-01LFMD	LFMD	09/08/22 14:50	HG220830-6	.002002	U	.00205	mg/L	102	85	115	1	20	
L75617-05LFM	LFM	09/08/22 14:54	HG220830-6	.002002	U	.002	mg/L	100	85	115			
L75617-05LFMD	LFMD	09/08/22 14:55	HG220830-6	.002002	U	.00203	mg/L	101	85	115	1	20	
WG550014													
WG550014LRB	LRB	09/08/22 15:01				U	mg/L		-0.00044	0.00044			
WG550014LFB	LFB	09/08/22 15:02	HG220830-6	.002002		.00193	mg/L	96	85	115			
L75489-01LFM	LFM	09/08/22 15:24	HG220830-6	.002002	U	.00201	mg/L	100	85	115			
L75489-01LFMD	LFMD	09/08/22 15:25	HG220830-6	.002002	U	.00191	mg/L	95	85	115	5	20	

Molybdenum, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549973													
WG549973ICV	ICV	09/07/22 22:07	MS220701-3	.02		.02025	mg/L	101	90	110			
WG549973ICB	ICB	09/07/22 22:09				U	mg/L		-0.00044	0.00044			
WG549973LFB	LFB	09/07/22 22:10	MS220822-2	.05005		.05233	mg/L	105	85	115			
L75577-10AS	AS	09/07/22 22:42	MS220822-2	.05005	.00038	.0524	mg/L	104	70	130			
L75577-10ASD	ASD	09/07/22 22:43	MS220822-2	.05005	.00038	.05388	mg/L	107	70	130	3	20	

Nickel, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG550265													
WG550265ICV	ICV	09/12/22 18:10	II220906-1	2		2.0525	mg/L	103	95	105			
WG550265ICB	ICB	09/12/22 18:16				U	mg/L		-0.024	0.024			
WG550265LFB	LFB	09/12/22 18:28	II220831-2	.502		.5204	mg/L	104	85	115			
L75617-04AS	AS	09/12/22 19:43	II220831-2	.502	U	.5189	mg/L	103	85	115			
L75617-04ASD	ASD	09/12/22 19:46	II220831-2	.502	U	.5003	mg/L	100	85	115	4	20	

Nitrate/Nitrite as N M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG550008													
WG550008ICV	ICV	09/08/22 0:09	WI220903-1	2.416		2.373	mg/L	98	90	110			
WG550008ICB	ICB	09/08/22 0:10				U	mg/L		-0.02	0.02			
WG550012													
WG550012LFB	LFB	09/08/22 2:35	WI220826-7	2		2.011	mg/L	101	90	110			
L75503-07AS	AS	09/08/22 2:57	WI220826-7	2	1.04	3.115	mg/L	104	90	110			
L75503-08DUP	DUP	09/08/22 2:59			.9	.899	mg/L				0	20	

OURAYSM

ACZ Project ID: ***L75617***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

pH (lab) SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549911													
WG549911LCSW1	LCSW	09/06/22 20:26	PCN65296	6		6	units	100	5.9	6.1			
WG549911LCSW4	LCSW	09/06/22 23:01	PCN65296	6		6	units	100	5.9	6.1			
WG549911LCSW7	LCSW	09/07/22 1:43	PCN65296	6		6.1	units	102	5.9	6.1			
WG549911LCSW10	LCSW	09/07/22 4:04	PCN65296	6		6	units	100	5.9	6.1			
L75618-01DUP	DUP	09/07/22 7:08			7	7.1	units				1	20	
WG549911LCSW13	LCSW	09/07/22 7:12	PCN65296	6		6	units	100	5.9	6.1			

Phosphorus, total M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG550375													
WG550375ICV	ICV	09/13/22 16:11	WI220818-6	.65228		.655	mg/L	100	90	110			
WG550375ICB	ICB	09/13/22 16:14				U	mg/L		-0.01	0.01			
WG549966LRB	LRB	09/13/22 16:15				U	mg/L		-0.01	0.01			
WG549966LFB	LFB	09/13/22 16:16	WI220902-7	.5		.489	mg/L	98	90	110			
L75617-04LFM	LFM	09/13/22 16:21	WI220902-7	.5	U	.479	mg/L	96	90	110			
L75617-07DUP	DUP	09/13/22 16:28			U	U	mg/L				0	20	RA

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG550265													
WG550265ICV	ICV	09/12/22 18:10	II220906-1	20		20.17	mg/L	101	95	105			
WG550265ICB	ICB	09/12/22 18:16				U	mg/L		-0.6	0.6			
WG550265LFB	LFB	09/12/22 18:28	II220831-2	99.95798		99.98	mg/L	100	85	115			
L75617-04AS	AS	09/12/22 19:43	II220831-2	99.95798	.73	103.3	mg/L	103	85	115			
L75617-04ASD	ASD	09/12/22 19:46	II220831-2	99.95798	.73	100.3	mg/L	100	85	115	3	20	

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG550088													
WG550088PBW	PBW	09/08/22 15:00				U	mg/L		-20	20			
WG550088LCSW	LCSW	09/08/22 15:02	PCN66033	1000		984	mg/L	98	80	120			
L75642-01DUP	DUP	09/08/22 16:00			74	72	mg/L				3	10	RA

Residue, Non-Filterable (TSS) @105C SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG550188													
WG550188PBW	PBW	09/09/22 16:30				U	mg/L		-2	2			
WG550188LCSW	LCSW	09/09/22 16:32	PCN623506	100		83	mg/L	83	80	120			
L75619-02DUP	DUP	09/09/22 17:01			34	39	mg/L				14	10	RA

OURAYSM

ACZ Project ID: ***L75617***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549973													
WG549973ICV	ICV	09/07/22 22:07	MS220701-3	.05		.05038	mg/L	101	90	110			
WG549973ICB	ICB	09/07/22 22:09				.00012	mg/L		-0.00022	0.00022			
WG549973LFB	LFB	09/07/22 22:10	MS220822-2	.05		.04884	mg/L	98	85	115			
L75577-10AS	AS	09/07/22 22:42	MS220822-2	.05	.00172	.04646	mg/L	89	70	130			
L75577-10ASD	ASD	09/07/22 22:43	MS220822-2	.05	.00172	.04844	mg/L	93	70	130	4	20	

Silica, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG550265													
WG550265ICV	ICV	09/12/22 18:10	II220906-1	42.8		42.65	mg/L	100	95	105			
WG550265ICB	ICB	09/12/22 18:16				U	mg/L		-0.6	0.6			
WG550265LFB	LFB	09/12/22 18:28	II220831-2	21.404		21.65	mg/L	101	85	115			
L75617-04AS	AS	09/12/22 19:43	II220831-2	21.404	5.1	25.79	mg/L	97	85	115			
L75617-04ASD	ASD	09/12/22 19:46	II220831-2	21.404	5.1	25.07	mg/L	93	85	115	3	20	

Silver, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549973													
WG549973ICV	ICV	09/07/22 22:07	MS220701-3	.02		.01972	mg/L	99	90	110			
WG549973ICB	ICB	09/07/22 22:09				U	mg/L		-0.00022	0.00022			
WG549973LFB	LFB	09/07/22 22:10	MS220822-2	.01		.01053	mg/L	105	85	115			
L75577-10AS	AS	09/07/22 22:42	MS220822-2	.01	U	.00787	mg/L	79	70	130			
L75577-10ASD	ASD	09/07/22 22:43	MS220822-2	.01	U	.00866	mg/L	87	70	130	10	20	

Sodium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG550265													
WG550265ICV	ICV	09/12/22 18:10	II220906-1	100		101.63	mg/L	102	95	105			
WG550265ICB	ICB	09/12/22 18:16				U	mg/L		-0.6	0.6			
WG550265LFB	LFB	09/12/22 18:28	II220831-2	100.0023		99.4	mg/L	99	85	115			
L75617-04AS	AS	09/12/22 19:43	II220831-2	100.0023	2.46	101.1	mg/L	99	85	115			
L75617-04ASD	ASD	09/12/22 19:46	II220831-2	100.0023	2.46	98.85	mg/L	96	85	115	2	20	

Sulfate D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549962													
WG549962ICB	ICB	09/07/22 10:40				U	mg/L		-3	3			
WG549962ICV	ICV	09/07/22 10:40	WI220830-1	19.54		19.8	mg/L	101	90	110			
WG549962LFB	LFB	09/07/22 13:17	WI220830-3	10		10.2	mg/L	102	90	110			
L75577-09DUP	DUP	09/07/22 14:12			1100	1079.2	mg/L				2	20	
L75577-10AS	AS	09/07/22 14:27	SO4TURB	10	1100	1094.4	mg/L	-56	90	110			M3

OURAYSM

ACZ Project ID: ***L75617***

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Thallium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549973													
WG549973ICV	ICV	09/07/22 22:07	MS220701-3	.05		.05153	mg/L	103	90	110			
WG549973ICB	ICB	09/07/22 22:09				U	mg/L		-0.00022	0.00022			
WG549973LFB	LFB	09/07/22 22:10	MS220822-2	.05		.05343	mg/L	107	85	115			
L75577-10AS	AS	09/07/22 22:42	MS220822-2	.05	U	.0531	mg/L	106	70	130			
L75577-10ASD	ASD	09/07/22 22:43	MS220822-2	.05	U	.05463	mg/L	109	70	130	3	20	

Uranium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549973													
WG549973ICV	ICV	09/07/22 22:07	MS220701-3	.05		.05135	mg/L	103	90	110			
WG549973ICB	ICB	09/07/22 22:09				U	mg/L		-0.00022	0.00022			
WG549973LFB	LFB	09/07/22 22:10	MS220822-2	.05		.05271	mg/L	105	85	115			
L75577-10AS	AS	09/07/22 22:42	MS220822-2	.05	U	.05532	mg/L	111	70	130			
L75577-10ASD	ASD	09/07/22 22:43	MS220822-2	.05	U	.0558	mg/L	112	70	130	1	20	

Vanadium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG550265													
WG550265ICV	ICV	09/12/22 18:10	II220906-1	2		2.083	mg/L	104	95	105			
WG550265ICB	ICB	09/12/22 18:16				U	mg/L		-0.015	0.015			
WG550265LFB	LFB	09/12/22 18:28	II220831-2	.5005		.5179	mg/L	103	85	115			
L75617-04AS	AS	09/12/22 19:43	II220831-2	.5005	U	.5163	mg/L	103	85	115			
L75617-04ASD	ASD	09/12/22 19:46	II220831-2	.5005	U	.498	mg/L	100	85	115	4	20	

Zinc, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG550265													
WG550265ICV	ICV	09/12/22 18:10	II220906-1	2		1.98	mg/L	99	95	105			
WG550265ICB	ICB	09/12/22 18:16				U	mg/L		-0.06	0.06			
WG550265LFB	LFB	09/12/22 18:28	II220831-2	.50045		.513	mg/L	103	85	115			
L75617-04AS	AS	09/12/22 19:43	II220831-2	.50045	.101	.565	mg/L	93	85	115			
L75617-04ASD	ASD	09/12/22 19:46	II220831-2	.50045	.101	.559	mg/L	92	85	115	1	20	

Ouray Silver Mines

ACZ Project ID: ***L75617***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L75617-01	WG550035	Chloride	SM4500Cl-E	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550083	Cyanide, total	M335.4 - Colorimetric w/ distillation	H3	Sample was received and analyzed past holding time.
			M335.4 - Colorimetric w/ distillation	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [< MDL].
			M335.4 - Colorimetric w/ distillation	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550375	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550088	Residue, Filterable (TDS) @180C	SM2540C	H1	Sample prep or analysis performed past holding time. See case narrative.
			SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550188	Residue, Non-Filterable (TSS) @105C	SM2540D	H1	Sample prep or analysis performed past holding time. See case narrative.
			SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG549962	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG549911	Total Alkalinity	SM2320B - Titration	H1	Sample prep or analysis performed past holding time. See case narrative.

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ACZ Project ID: ***L75617***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L75617-02	WG550035	Chloride	SM4500Cl-E	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550083	Cyanide, total	M335.4 - Colorimetric w/ distillation	H3	Sample was received and analyzed past holding time.
			M335.4 - Colorimetric w/ distillation	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [< MDL].
			M335.4 - Colorimetric w/ distillation	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550375	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550088	Residue, Filterable (TDS) @180C	SM2540C	H1	Sample prep or analysis performed past holding time. See case narrative.
			SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550188	Residue, Non-Filterable (TSS) @105C	SM2540D	H1	Sample prep or analysis performed past holding time. See case narrative.
			SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG549962	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG549911	Total Alkalinity	SM2320B - Titration	H1	Sample prep or analysis performed past holding time. See case narrative.

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ACZ Project ID: ***L75617***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L75617-03	WG550035	Chloride	SM4500Cl-E	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550083	Cyanide, total	M335.4 - Colorimetric w/ distillation	H3	Sample was received and analyzed past holding time.
			M335.4 - Colorimetric w/ distillation	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [< MDL].
			M335.4 - Colorimetric w/ distillation	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550375	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550088	Residue, Filterable (TDS) @180C	SM2540C	H1	Sample prep or analysis performed past holding time. See case narrative.
			SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550188	Residue, Non-Filterable (TSS) @105C	SM2540D	H1	Sample prep or analysis performed past holding time. See case narrative.
			SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG549962	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG549911	Total Alkalinity	SM2320B - Titration	H1	Sample prep or analysis performed past holding time. See case narrative.

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ACZ Project ID: ***L75617***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L75617-04	WG550035	Chloride	SM4500Cl-E	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550083	Cyanide, total	M335.4 - Colorimetric w/ distillation	H3	Sample was received and analyzed past holding time.
			M335.4 - Colorimetric w/ distillation	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [< MDL].
			M335.4 - Colorimetric w/ distillation	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550375	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550088	Residue, Filterable (TDS) @180C	SM2540C	H1	Sample prep or analysis performed past holding time. See case narrative.
			SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550188	Residue, Non-Filterable (TSS) @105C	SM2540D	H1	Sample prep or analysis performed past holding time. See case narrative.
			SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG549962	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG549911	Total Alkalinity	SM2320B - Titration	H1	Sample prep or analysis performed past holding time. See case narrative.

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ACZ Project ID: ***L75617***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L75617-05	WG550035	Chloride	SM4500Cl-E	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550083	Cyanide, total	M335.4 - Colorimetric w/ distillation	H3	Sample was received and analyzed past holding time.
			M335.4 - Colorimetric w/ distillation	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [< MDL].
			M335.4 - Colorimetric w/ distillation	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550375	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550088	Residue, Filterable (TDS) @180C	SM2540C	H1	Sample prep or analysis performed past holding time. See case narrative.
			SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550188	Residue, Non-Filterable (TSS) @105C	SM2540D	H1	Sample prep or analysis performed past holding time. See case narrative.
			SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG549962	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG549911	Total Alkalinity	SM2320B - Titration	H1	Sample prep or analysis performed past holding time. See case narrative.

Ouray Silver Mines

ACZ Project ID: ***L75617***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L75617-06	WG550035	Chloride	SM4500Cl-E	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550083	Cyanide, total	M335.4 - Colorimetric w/ distillation	H3	Sample was received and analyzed past holding time.
			M335.4 - Colorimetric w/ distillation	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [< MDL].
			M335.4 - Colorimetric w/ distillation	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550375	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550088	Residue, Filterable (TDS) @180C	SM2540C	H1	Sample prep or analysis performed past holding time. See case narrative.
			SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540C	Z3	Sample volume yielded a residue less than 2.5 mg
	WG550188	Residue, Non-Filterable (TSS) @105C	SM2540D	H1	Sample prep or analysis performed past holding time. See case narrative.
			SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG549962	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG549911	Total Alkalinity	SM2320B - Titration	H1	Sample prep or analysis performed past holding time. See case narrative.

Inorganic Extended Qualifier Report

Ouray Silver Mines

ACZ Project ID: ***L75617***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L75617-07	WG550035	Chloride	SM4500Cl-E	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550083	Cyanide, total	M335.4 - Colorimetric w/ distillation	H3	Sample was received and analyzed past holding time.
			M335.4 - Colorimetric w/ distillation	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [< MDL].
			M335.4 - Colorimetric w/ distillation	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550375	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550088	Residue, Filterable (TDS) @180C	SM2540C	H1	Sample prep or analysis performed past holding time. See case narrative.
			SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG550188	Residue, Non-Filterable (TSS) @105C	SM2540D	H1	Sample prep or analysis performed past holding time. See case narrative.
			SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG549962	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG549911	Total Alkalinity	SM2320B - Titration	H1	Sample prep or analysis performed past holding time. See case narrative.

Certification Qualifiers

Ouray Silver Mines ACZ Project ID: ***L75617***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Ouray Silver Mines

ACZ Project ID: L75617
Date Received: 08/24/2022 10:49
Received By:
Date Printed: 9/7/2022

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
3924	4.1	<=6.0	15	N/A

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Ouray Silver Mines

ACZ Project ID:	L75617
Date Received:	08/24/2022 10:49
Received By:	
Date Printed:	9/7/2022

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc. L75617

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

CHAIN of CUSTODY

Report to:

Name: Todd Jesse
Company: Ouray Silver Mines Inc
E-mail: environmental@ouraysilvermines.com
Address: 1900 Main St Unit 1
Ouray, CO 81427
Telephone: 720-469-7557

Copy of Report to:

Name: Poppy Staub
Company: Ouray Silver Mines Inc
E-mail: environmental@ouraysilvermines.com
Telephone: 970-325-9830

Invoice to:

Name: Don Cordsen
Company: Ouray Silver Mines
E-mail: payable@ouraysilvermines.com
Address: PO Box 564
Ouray, CO 81427
Telephone: 970-325-9830

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO [X]

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring? Yes [ ] No [X]

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Todd Jesse **Sampler's Site Information** State CO Zip code 81427 Time Zone mnt

***Sampler's Signature:** [signature]

*I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

Quote #: GW
PO#:
Reporting state for compliance testing:
Check box if samples include NRC licensed material? [ ]

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	GW							
GW-1B	8/23/22 : 08:19	GW	5	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
GW-2A	8/23/22 : 09:24	GW	5	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
GW-2B	8/23/22 : 09:57	GW	5	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
GW-3B	8/23/22 : 10:47	GW	5	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
GW-3R	8/23/22 : 11:39	GW	5	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
GW-0	8/23/22 : 12:19	GW	5	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
GW-99	8/23/22 : 10:03	GW	5	[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
				[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
				[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
				[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
[signature]	8/23/22 14:00	[signature]	9/6/22
			7:15 and 9/6/22
			16.14

FRMAD050.06.14.14 White - Return with sample. Yellow - Retain for your records.

L75617 Chain of Custod

2022-08-23

Created	2022-08-23 08:52:07 MDT by Environmental Department
Updated	2022-08-23 09:04:51 MDT by Environmental Department
Location	37.9754035, -107.7544377
Groundwater 2021 Field Data	
Well ID	GW-1A
Date	2022-08-23
Time	08:52

Observations

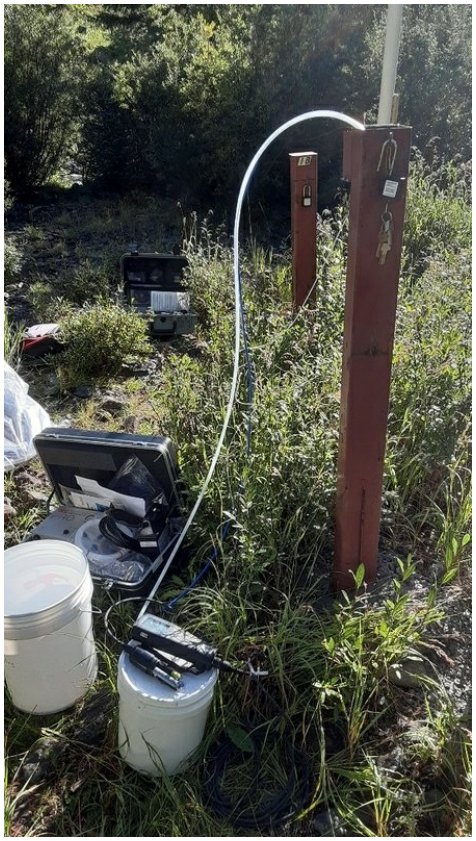
Weather Conditions	Sunny. Heavy rain last night

Well Information

Stick Up (inches from ground surface)	60
Depth to Water (inches from top of collar)	106.8
Depth to Bottom (inches from top of collar)	108.6
Cubic feet of water in well	0.003270835007999995
Gallons of water in well	0.024467546694044124
Pumping Notes	Discharge 10 fill 25
Purge Time (minutes)	5
Purge Volume (Gallons)	0

Field Chemistry

Sample method	bladder pump
SampleTime	08:52
Field ORP (mV)	-99
Water Temperature (C)	-99
Field TDS (mg/L)	-99
Conductivity (uS/cm)	-99
Field DO (%)	-99
Field pH	-99
color and clarity	no water
Final Depth to Water (inches from top of collar)	106.8

Photos	
Sampler Name	Todd Jesse
Signature	 Signed 2022-08-23 09:00:58 MDT
Notes	Not enough water in well to sample or record field parameters.

2022-08-23

Created	2022-08-23 08:19:06 MDT by Environmental Department
Updated	2022-08-23 08:52:04 MDT by Environmental Department
Location	37.9753577, -107.7543283
Groundwater 2021 Field Data	
Well ID	GW-1B
Date	2022-08-23
Time	08:19

Observations

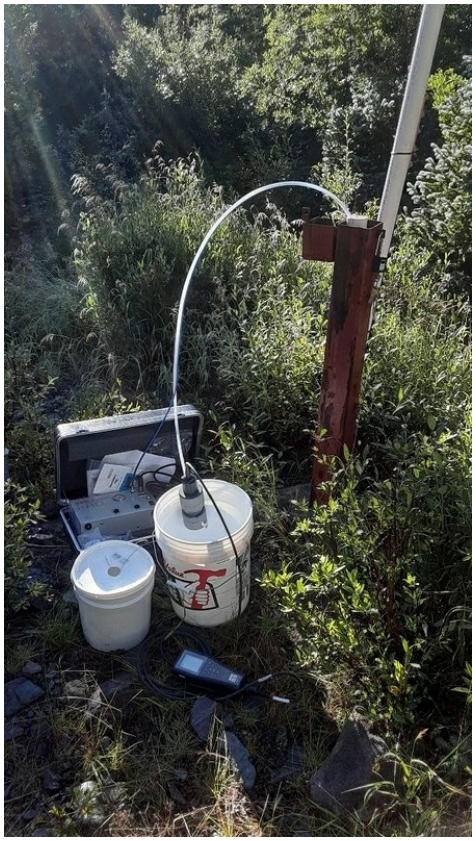
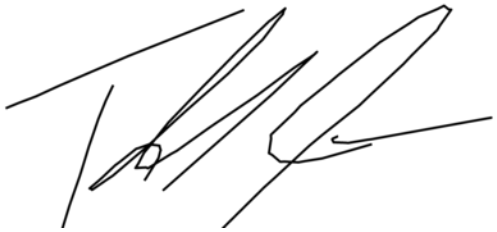
Weather Conditions	Sunny. Heavy rain last night

Well Information

Stick Up (inches from ground surface)	53.4
Depth to Water (inches from top of collar)	97.2
Depth to Bottom (inches from top of collar)	205.2
Cubic feet of water in well	0.19625010048
Gallons of water in well	1.4680528016426495
Pumping Notes	Discharge 12 Fill 20
Purge Time (minutes)	20
Purge Volume (Gallons)	2

Field Chemistry

Water Temperature (C) 1	10.7
Conductivity (uS/cm) 1	0.2
Field DO (%) 1	83.2
Field pH 1	7.23
Water Temperature (C) 2	9.7
Conductivity (uS/cm) 2	0.3
Field DO (%) 2	79.8
Field pH 2	6.87
Water Temperature (C) 3	9.1
Conductivity (uS/cm) 3	0.3
Field DO (%) 3	78
Field pH 3	6.9
Sample method	bladder pump
SampleTime	08:19
Field ORP (mV)	-732
Water Temperature (C)	8.9
Field TDS (mg/L)	-99
Conductivity (uS/cm)	0.2
Field DO (%)	76.6
Field pH	6.92

color and clarity	Clear
Final Depth to Water (inches from top of collar)	97.2
Photos	
Sampler Name	Todd Jesse
Signature	 Signed 2022-08-23 08:51:54 MDT
Notes	No draw down.

2022-08-23

Created	2022-08-23 09:24:05 MDT by Environmental Department
Updated	2022-08-23 09:55:33 MDT by Environmental Department
Location	37.9750655, -107.7524437
Groundwater 2021 Field Data	
Well ID	GW-2A
Date	2022-08-23
Time	09:24

Observations

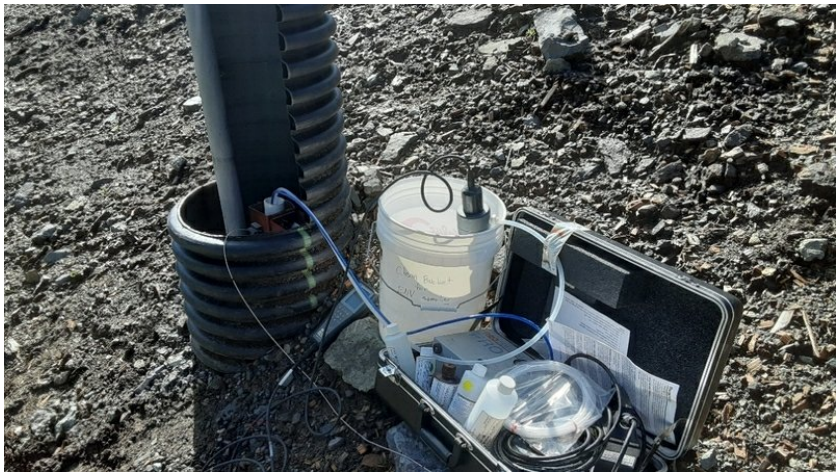
Weather Conditions	Sunny. Heavy rain last night

Well Information

Stick Up (inches from ground surface)	12
Depth to Water (inches from top of collar)	114.6
Depth to Bottom (inches from top of collar)	174
Cubic feet of water in well	0.10793755526400002
Gallons of water in well	0.8074290409034575
Pumping Notes	Discharge 10 Fill 22
Purge Time (minutes)	20
Purge Volume (Gallons)	2

Field Chemistry

Water Temperature (C) 1	13.1
Conductivity (uS/cm) 1	1.5
Field DO (%) 1	77.9
Field pH 1	7.39
Water Temperature (C) 2	8.4
Conductivity (uS/cm) 2	0.4
Field DO (%) 2	87.6
Field pH 2	7.2
Water Temperature (C) 3	7.2
Conductivity (uS/cm) 3	0.6
Field DO (%) 3	90.8
Field pH 3	7.06
Sample method	bladder
SampleTime	09:24
Field ORP (mV)	-215.6
Water Temperature (C)	7.7
Field TDS (mg/L)	-99
Conductivity (uS/cm)	1.1
Field DO (%)	94.2
Field pH	6.94

color and clarity	Clear
Final Depth to Water (inches from top of collar)	114.6
Photos	
Sampler Name	Todd Jesse
Signature	 Signed 2022-08-23 09:42:01 MDT
Notes	No draw down

2022-08-23

Created	2022-08-23 09:57:05 MDT by Environmental Department
Updated	2022-08-23 10:35:00 MDT by Environmental Department
Location	37.975206, -107.7525484
Groundwater 2021 Field Data	
Well ID	GW-2B
Date	2022-08-23
Time	09:57

Observations

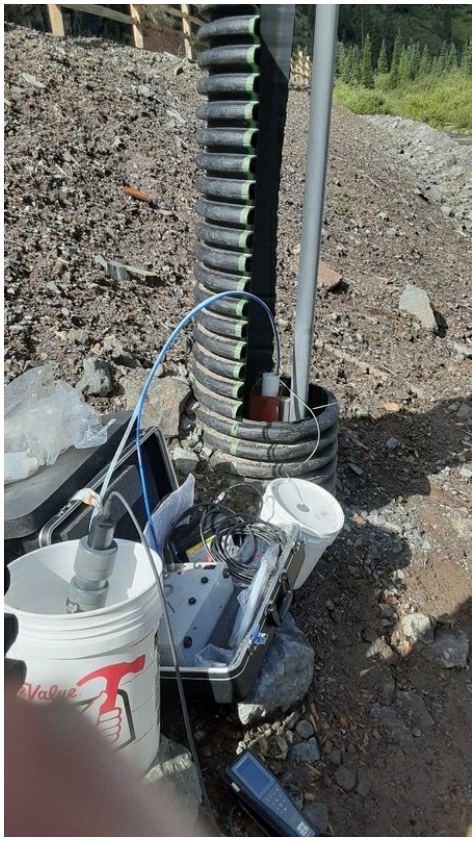
Weather Conditions	Partly cloudy. Heavy rain last night.

Well Information

Stick Up (inches from ground surface)	12
Depth to Water (inches from top of collar)	123.6
Depth to Bottom (inches from top of collar)	346.8
Cubic feet of water in well	0.40558354099200006
Gallons of water in well	3.0339757900614766
Pumping Notes	Discharge 12 fill 20
Purge Time (minutes)	25
Purge Volume (Gallons)	2.5

Field Chemistry

Water Temperature (C) 1	6.93
Conductivity (uS/cm) 1	1.2
Field DO (%) 1	129.6
Field pH 1	7.04
Water Temperature (C) 2	6.1
Conductivity (uS/cm) 2	28.7
Field DO (%) 2	114.4
Field pH 2	6.96
Water Temperature (C) 3	5.9
Conductivity (uS/cm) 3	23.1
Field DO (%) 3	104.3
Field pH 3	6.95
Sample method	bladder pump
SampleTime	09:57
Field ORP (mV)	-182.8
Water Temperature (C)	6.4
Field TDS (mg/L)	-99
Conductivity (uS/cm)	23.5
Field DO (%)	105.4
Field pH	6.94

color and clarity	Clear
Final Depth to Water (inches from top of collar)	123.6
Photos	
Sampler Name	Todd Jesse
Signature	 Signed 2022-08-23 10:07:28 MDT
Notes	Duplicate well. No draw down

2022-08-23

Created	2022-08-23 11:39:20 MDT by Environmental Department
Updated	2022-08-23 12:14:21 MDT by Environmental Department
Location	37.9741553, -107.7506916
Groundwater 2021 Field Data	
Well ID	GW-3R
Date	2022-08-23
Time	11:39

Observations

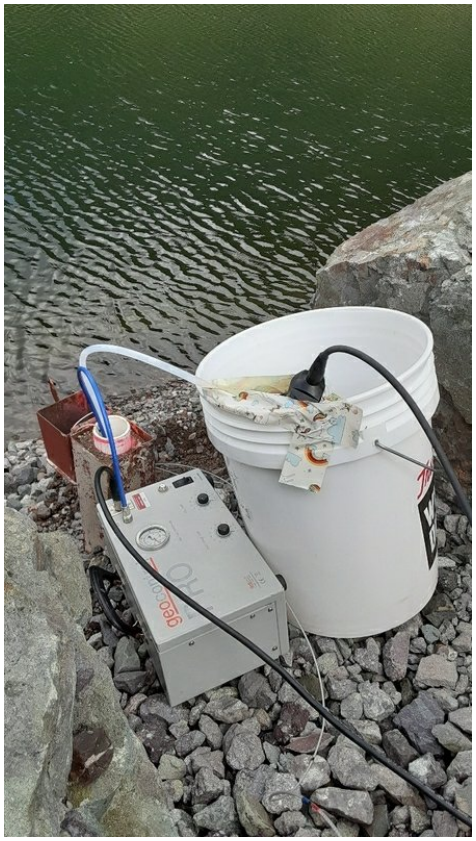
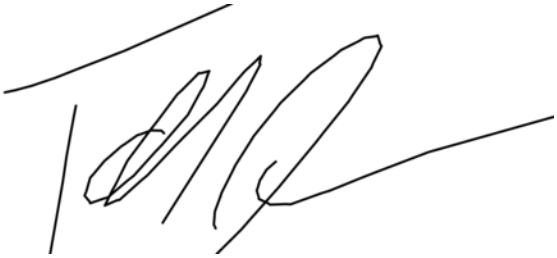
Weather Conditions	Partly cloudy. Heavy rain last night

Well Information

Stick Up (inches from ground surface)	8.4
Depth to Water (inches from top of collar)	254.4
Depth to Bottom (inches from top of collar)	408
Cubic feet of water in well	0.279111254016
Gallons of water in well	2.0878973178917684
Pumping Notes	Discharge 12 fill 20
Purge Time (minutes)	20
Purge Volume (Gallons)	2

Field Chemistry

Water Temperature (C) 1	12.2
Conductivity (uS/cm) 1	2.8
Field DO (%) 1	101.7
Field pH 1	7.47
Water Temperature (C) 2	5.9
Conductivity (uS/cm) 2	2.1
Field DO (%) 2	84.6
Field pH 2	7.39
Water Temperature (C) 3	5
Conductivity (uS/cm) 3	7.4
Field DO (%) 3	75.1
Field pH 3	7.14
Sample method	bladder pump
SampleTime	11:39
Field ORP (mV)	124.2
Water Temperature (C)	4.8
Field TDS (mg/L)	-99
Conductivity (uS/cm)	8.1
Field DO (%)	73
Field pH	7.23

color and clarity	Clear
Final Depth to Water (inches from top of collar)	254.4
Photos	
Sampler Name	Todd Jesse
Signature	 Signed 2022-08-23 11:49:46 MDT
Notes	No draw down. Dud not flush entire cas9nv but got stable readings.

2022-08-23

Created	2022-08-23 10:47:48 MDT by Environmental Department
Updated	2022-08-23 14:53:39 MDT by Environmental Department
Location	37.9755571, -107.7506294
Groundwater 2021 Field Data	
Well ID	GW-3B
Date	2022-08-23
Time	10:47

Observations

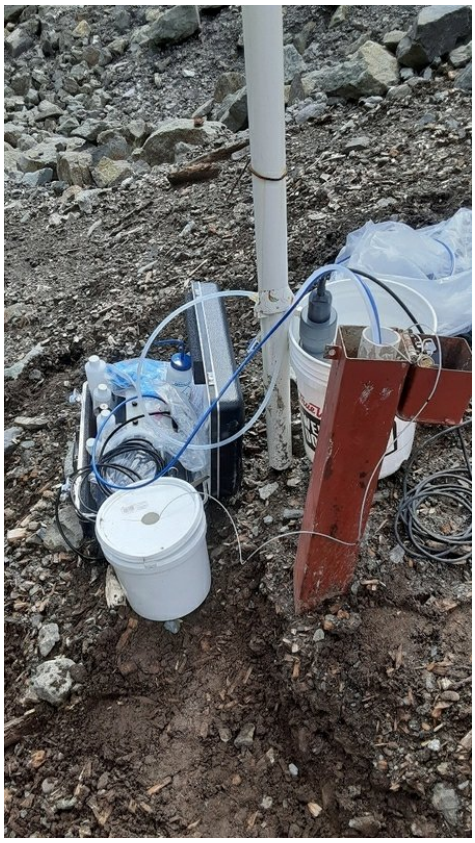
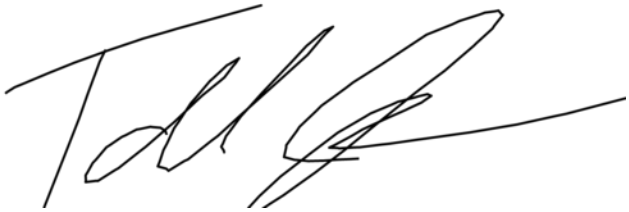
Weather Conditions	Partly cloudy. Heavy rain last night

Well Information

Stick Up (inches from ground surface)	37.2
Depth to Water (inches from top of collar)	196.87
Depth to Bottom (inches from top of collar)	594
Cubic feet of water in well	0.7216370592928
Gallons of water in well	5.398220454780977
Pumping Notes	Discharge 14 fill 26
Purge Time (minutes)	25
Purge Volume (Gallons)	2.5

Field Chemistry

Water Temperature (C) 1	14.1
Conductivity (uS/cm) 1	0
Field DO (%) 1	96.8
Field pH 1	7.42
Water Temperature (C) 2	10.4
Conductivity (uS/cm) 2	-99
Field DO (%) 2	88.6
Water Temperature (C) 3	6.7
Conductivity (uS/cm) 3	-99
Field DO (%) 3	78.2
Field pH 3	6.83
Sample method	bladder pump
SampleTime	10:47
Field ORP (mV)	-288.7
Water Temperature (C)	6.1
Field TDS (mg/L)	-99
Conductivity (uS/cm)	-99
Field DO (%)	75.5
Field pH	6.84
color and clarity	Clear

Final Depth to Water (inches from top of collar)	232.8
Photos	
Sampler Name	Todd Jesse
Signature	 Signed 2022-08-23 11:03:56 MDT
Notes	Conductivity not reading on meter. 30 inches of draw down. Pump settings too high

2022-03-03

Created	2022-03-03 12:32:52 MST by Environmental Department
Updated	2022-08-01 15:07:12 MDT by Environmental Department
Location	37.975186, -107.7526213
Groundwater 2021 Field Data	
Well ID	GW-99
Duplicated Well	GW-2A
Date	2022-03-03
Time	12:32

Observations

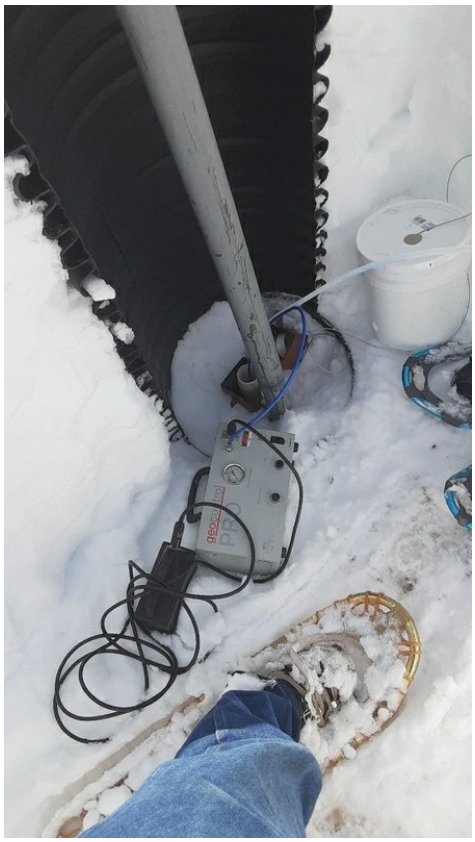
Weather Conditions	Sunny recent snow storm

Well Information

Stick Up (inches from ground surface)	-99
Depth to Water (inches from top of collar)	10.7
Depth to Bottom (inches from top of collar)	15.7
Cubic feet of water in well	0.0090856528
Gallons of water in well	0.067965407483456
Pumping Notes	Discharge 8 fill 15
Purge Time (minutes)	15
Purge Volume (Gallons)	1.5

Field Chemistry

Water Temperature (C) 1	2.4
Conductivity (uS/cm) 1	12.9
Field DO (%) 1	-99
Field pH 1	7.03
Water Temperature (C) 2	2.4
Conductivity (uS/cm) 2	10.7
Field DO (%) 2	-99
Field pH 2	7.1
Water Temperature (C) 3	2.4
Conductivity (uS/cm) 3	10.7
Field DO (%) 3	-99
Field pH 3	7.01
Sample method	Bladder Pump
SampleTime	12:32
Field ORP (mV)	272
Water Temperature (C)	2.4
Field TDS (mg/L)	-99
Conductivity (uS/cm)	10.7
Field DO (%)	-99

Field pH	7.01
color and clarity	Clear
Final Depth to Water (inches from top of collar)	10.8
Photos	
Sampler Name	Todd Jesse
Signature	 Signed 2022-08-01 15:06:58 MDT
Notes	Duplicate for 2A

2022-08-23

Created	2022-08-23 12:19:24 MDT by Environmental Department
Updated	2022-08-23 12:22:58 MDT by Environmental Department
Location	37.9750374, -107.7510672
Groundwater 2021 Field Data	
Well ID	GW-0
Date	2022-08-23
Time	12:19

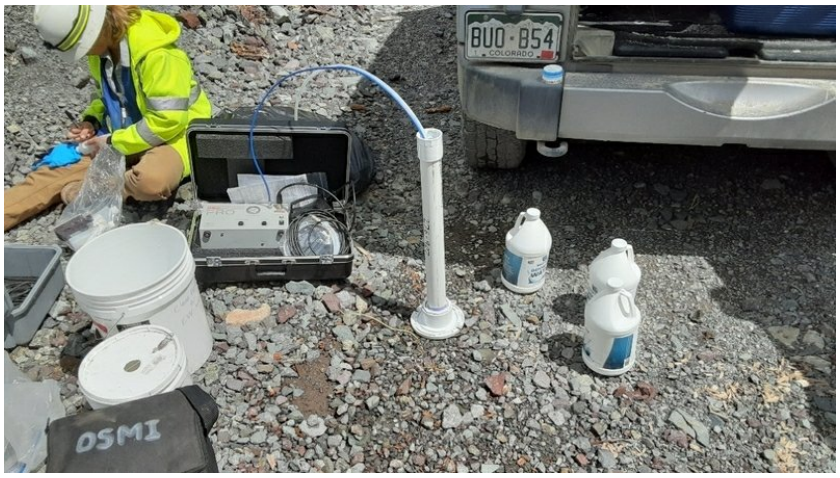
Observations

Weather Conditions	Partly cloudy

Well Information

Stick Up (inches from ground surface)	-99
Depth to Water (inches from top of collar)	-99
Depth to Bottom (inches from top of collar)	-99
Cubic feet of water in well	0
Gallons of water in well	0
Pumping Notes	Discharge 12 fill 20
Purge Time (minutes)	-99
Purge Volume (Gallons)	-99

Field Chemistry

Sample method	bladder pump
SampleTime	12:19
Field ORP (mV)	167.2
Water Temperature (C)	16.9
Field TDS (mg/L)	-99
Conductivity (uS/cm)	2.5
Field DO (%)	51.2
Field pH	7.65
color and clarity	Clear
Final Depth to Water (inches from top of collar)	-99
Photos	

Sampler Name	Todd Jesse
Signature	 Signed 2022-08-23 12:20:37 MDT
Notes	Blank