



Attachments



Attachment A

Attachment A: Lab Sampling Data

Purpose	Lab	Lab Project ID	Sample Name	Sample Matrix	Sample date
DRMS	ACZ	L64814	UG-8	Groundwater	3/17/2021
DRMS	ACZ	L64814	UG-5	Groundwater	3/17/2021
DRMS	ACZ	L64934	UG-10	Groundwater	3/24/2021
DRMS	ACZ	L64934	UG-4	Groundwater	3/24/2021
DRMS	ACZ	L64934	UG-2	Groundwater	3/24/2021
DRMS	ACZ	L64966	GW-1B	Groundwater	3/25/2021
DRMS	ACZ	L64966	GW-2B	Groundwater	3/25/2021
DRMS	ACZ	L64966	GW-0	Groundwater	3/25/2021
DRMS	ACZ	L65001	GW-2A	Groundwater	3/29/2021
DRMS	ACZ	L65001	GW-3R	Groundwater	3/29/2021
DRMS	ACZ	L65001	GW-99	Groundwater	3/29/2021
DRMS	ACZ	L65443	GW-4	Surface Water	4/21/2021
CDPHE	ACZ	L65713	OF002A	Waste Water	5/6/2021
CDPHE	ACZ	L65845	OF002A	Waste Water	5/13/2021
CDPHE - Permitting	ACZ	L66147	SW-2	Surface Water	5/27/2021
CDPHE - Permitting	ACZ	L66147	SW-15	Surface Water	5/27/2021
CDPHE - Permitting	ACZ	L66148	SW-21	Surface Water	5/27/2021
CDPHE - Permitting	ACZ	L66148	SW-4	Surface Water	5/27/2021
CDPHE - Permitting	ACZ	L66148	SW-99	Surface Water	5/27/2021
CDPHE - Permitting	ACZ	L66148	SW-1	Surface Water	5/27/2021
CDPHE - Permitting	ACZ	L66148	SW-16	Surface Water	5/27/2021
CDPHE - Permitting	ACZ	L66148	SW-3	Surface Water	5/27/2021
CDPHE - Permitting	ACZ	L66148	SW-17	Surface Water	5/27/2021
CDPHE - Permitting	ACZ	L66148	SW-0	Surface Water	5/27/2021
CDPHE	ACZ	L66294	OF002A	Waste Water	6/3/2021
CDPHE	GEI	2004862	OF002A	WET	6/3/21-6/9/21
CDPHE	ACZ	L66516	OF002A	Waste Water	6/15/2021
DRMS	ACZ	L66517	UG-5	Groundwater	6/15/2021
DRMS	ACZ	L66517	UG-8	Groundwater	6/15/2021
DRMS	ACZ	L66517	UG-99	Groundwater	6/15/2021
DRMS	ACZ	L66517	UG-4	Groundwater	6/15/2021
DRMS	ACZ	L66517	UG-2	Groundwater	6/15/2021
DRMS	ACZ	L66517	UG-10	Groundwater	6/15/2021
DRMS	ACZ	L66517	GW-4	Groundwater	6/17/2021
DRMS	ACZ	L66632	GW-0	Groundwater	6/17/2021
DRMS	ACZ	L66632	GW-2B	Groundwater	6/17/2021
DRMS	ACZ	L66632	GW-2A	Groundwater	6/17/2021
DRMS	ACZ	L66632	GW-1A	Groundwater	6/17/2021
DRMS	ACZ	L66632	GW-1B	Groundwater	6/17/2021
DRMS	ACZ	L66632	GW-99	Groundwater	6/17/2021
DRMS	ACZ	L66632	GW-3B	Groundwater	6/17/2021
DRMS	ACZ	L66632	GW-3R	Groundwater	6/17/2021
CDPHE-Permitting	ACZ	L66797	SW-2	Surface Water	6/28/2021
CDPHE-Permitting	ACZ	L66797	SW-15	Surface Water	6/28/2021

CDPHE-Permitting	ACZ	L66797	SW-21	Surface Water	6/28/2021
CDPHE-Permitting	ACZ	L66797	SW-4	Surface Water	6/28/2021
CDPHE-Permitting	ACZ	L66797	SW-99	Surface Water	6/28/2021
CDPHE-Permitting	ACZ	L66797	SW-1	Surface Water	6/28/2021
CDPHE-Permitting	ACZ	L66797	SW-16	Surface Water	6/28/2021
CDPHE-Permitting	ACZ	L66797	SW-3	Surface Water	6/28/2021
CDPHE-Permitting	ACZ	L66797	SW-17	Surface Water	6/28/2021
CDPHE-Permitting	ACZ	L66797	SW-0	Surface Water	6/28/2021
DRMS	ACZ	L66921	cwr_20210629	Soil	6/29/2021
CDPHE	ACZ	L67042	OF002A	Waste Water	7/8/2021
CDPHE	ACZ	L67253	OF002A	Waste Water	7/20/2021
CDPHE	ACZ	L67636	OF002A	Waste Water	8/5/2021
CDPHE	ACZ	L68002	OF002A	Waste Water	8/23/2021
DRMS	ACZ	L66921	cwr_20210823	Soil	8/23/2021
CDPHE	GEI	2004862	OF002A	WET	8/25/21-10/4/21
CDPHE	ACZ	L68157	OF002A	Waste Water	8/30/2021
DRMS	ACZ	L68295	UG-8	Groundwater	9/7/2021
DRMS	ACZ	L68295	UG-2	Groundwater	9/7/2021
DRMS	ACZ	L68295	UG-5	Groundwater	9/7/2021
CDPHE - Permitting	ACZ	L68339	SW-1	Surface Water	9/8/2021
CDPHE - Permitting	ACZ	L68339	SW-3	Surface Water	9/8/2021
CDPHE - Permitting	ACZ	L68339	SW-4	Surface Water	9/8/2021
CDPHE - Permitting	ACZ	L68339	SW-99	Surface Water	9/8/2021
CDPHE - Permitting	ACZ	L68342	SW-0	Surface Water	9/8/2021
CDPHE - Permitting	ACZ	L68342	SW-16	Surface Water	9/8/2021
CDPHE - Permitting	ACZ	L68342	SW-21	Surface Water	9/8/2021
CDPHE	ACZ	L68495	OF002A	Waste Water	9/14/2021
CDPHE - Permitting	ACZ	L68500	SW-0	Surface Water	9/14/2021
CDPHE - Permitting	ACZ	L68500	SW-99	Surface Water	9/14/2021
CDPHE - Permitting	ACZ	L68500	SW-2	Surface Water	9/14/2021
CDPHE - Permitting	ACZ	L68500	SW-15	Surface Water	9/14/2021
CDPHE - Permitting	ACZ	L68500	SW-17	Surface Water	9/14/2021
DRMS	ACZ	L68530	GW-0	Groundwater	9/15/2021
DRMS	ACZ	L68530	GW-99	Groundwater	9/15/2021
DRMS	ACZ	L68530	GW-2A	Groundwater	9/15/2021
DRMS	ACZ	L68530	GW-2B	Groundwater	9/15/2021
DRMS	ACZ	L68530	GW-3R	Groundwater	9/15/2021
DRMS	ACZ	L68530	GW-3B	Groundwater	9/15/2021
CDPHE	ACZ	L68679	OF002A	Waste Water	9/21/2021
DRMS	ACZ	L68770	GW-0	Groundwater	9/23/2021
DRMS	ACZ	L68770	GW-99	Groundwater	9/23/2021
DRMS	ACZ	L68770	GW-1B	Groundwater	9/23/2021
CDPHE	ACZ	L68908	OF002A	Waste Water	9/30/2021
DRMS	ACZ	L69169	LOC20211006	Soil	10/6/2021
DRMS	ACZ	L69171	RT20211005	Soil	10/5/2021
DRMS	ACZ	L69189	MILL WATER	Groundwater	10/11/2021
CDPHE	ACZ	L69211	OF002A	Waste Water	10/13/2021

CDPHE	ACZ	L69421	OF002A	Waste Water	10/20/2021
DRMS	ACZ	L69598	GW-2A	Groundwater	10/28/2021
DRMS	ACZ	L69598	GW-2B	Groundwater	10/28/2021
DRMS	ACZ	L69598	GW-3R	Groundwater	10/28/2021
DRMS	ACZ	L69598	GW-3B	Groundwater	10/28/2021
DRMS	ACZ	L69602	GW-0	Groundwater	10/28/2021
DRMS	ACZ	L69602	GW-99	Groundwater	10/28/2021
DRMS	ACZ	L69602	GW-1B	Groundwater	10/28/2021
CDPHE	ACZ	L69644	OF002A	Waste Water	11/1/2021
CDPHE	ACZ	L69938	OF002A	Waste Water	11/15/2021
DRMS	ACZ	L69987	UG-8	Groundwater	11/17/2021
DRMS	ACZ	L69987	UG-2	Groundwater	11/17/2021
DRMS	ACZ	L69987	UG-5	Groundwater	11/17/2021
DRMS	ACZ	L70075	cwr_20211115	Soil	11/15/2021
CDPHE	ACZ	L70193	OF002A	Waste Water	12/1/2021
DRMS	ACZ	L70274	RT20211005	Soil	10/5/2021
CDPHE	GEI	2004862	OF002A	WET	12/7/21 - 12/11/21
CDPHE	ACZ	L70367	OF002A	Waste Water	12/8/2021

April 07, 2021

Report to:

Briana Greer
Ouray Silver Mines
285 S. Madison Ave.

Louisville, CO 80027

cc: Accounts Payable, Chris Bolane

Bill to:

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

Project ID:

ACZ Project ID: L64814

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 18, 2021. This project has been assigned to ACZ's project number, L64814. Please reference this number in all future inquiries.

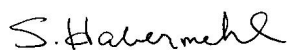
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L64814. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 May 07, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: UG-8

ACZ Sample ID: **L64814-01**

Date Sampled: 03/17/21 09:00

Date Received: 03/18/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						03/22/21 18:48	bjp
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								03/23/21 14:09	md

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	03/22/21 20:45	jlw
Antimony, dissolved	M200.8 ICP-MS	1	0.00228			mg/L	0.0004	0.002	03/22/21 17:15	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00399			mg/L	0.0002	0.001	03/22/21 17:15	bsu
Barium, dissolved	M200.7 ICP	1	0.0292	B		mg/L	0.007	0.035	03/22/21 20:45	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	03/22/21 17:15	bsu
Boron, dissolved	M200.7 ICP	1	0.051	B		mg/L	0.02	0.1	03/22/21 20:45	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	0.00353			mg/L	0.00005	0.00025	03/22/21 17:15	bsu
Calcium, dissolved	M200.7 ICP	1	65.5			mg/L	0.1	0.5	03/22/21 20:45	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	03/22/21 17:15	bsu
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	03/22/21 17:15	bsu
Iron, dissolved	M200.7 ICP	1	0.065	B		mg/L	0.06	0.15	03/22/21 20:45	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.00049	B		mg/L	0.0001	0.0005	03/22/21 17:15	bsu
Magnesium, dissolved	M200.7 ICP	1	3.82			mg/L	0.2	1	03/22/21 20:45	jlw
Manganese, dissolved	M200.7 ICP	1	6.75		*	mg/L	0.01	0.05	03/22/21 20:45	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	03/23/21 12:30	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00581			mg/L	0.0002	0.0005	03/22/21 17:15	bsu
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	03/22/21 20:45	jlw
Potassium, dissolved	M200.7 ICP	1	0.84	B		mg/L	0.2	1	03/22/21 20:45	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00027			mg/L	0.0001	0.00025	03/22/21 17:15	bsu
Silica, dissolved	M200.7 ICP	1	8.1			mg/L	0.2	1	03/22/21 20:45	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/22/21 17:15	bsu
Sodium, dissolved	M200.7 ICP	1	17.2			mg/L	0.2	1	03/22/21 20:45	jlw
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/22/21 17:15	bsu
Uranium, dissolved	M200.8 ICP-MS	1	0.00048	B		mg/L	0.0001	0.0005	03/22/21 17:15	bsu
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	03/22/21 20:45	jlw
Zinc, dissolved	M200.7 ICP	1	1.54			mg/L	0.02	0.05	03/22/21 20:45	jlw

Ouray Silver Mines

Project ID:

Sample ID: UG-8

ACZ Sample ID: **L64814-01**

Date Sampled: 03/17/21 09:00

Date Received: 03/18/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	60.3			mg/L	2	20	03/20/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	03/20/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	03/20/21 0:00	eep
Total Alkalinity		1	60.3			mg/L	2	20	03/20/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			5.4			%			04/07/21 0:00	calc
Sum of Anions			4.4			meq/L			04/07/21 0:00	calc
Sum of Cations			4.9			meq/L			04/07/21 0:00	calc
Chloride	SM4500Cl-E	1	2.09			mg/L	0.5	2	04/01/21 21:26	syw
Conductivity @25C	SM2510B	1	477			umhos/cm	1	10	03/20/21 0:03	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	0.0037	B	*	mg/L	0.003	0.01	03/23/21 13:36	bjp
Fluoride	SM4500F-C	1	0.44			mg/L	0.11	0.35	03/24/21 17:26	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		179			mg/L	0.2	5	04/07/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	3	6.31		*	mg/L	0.06	0.3	03/26/21 0:29	pjb
pH (lab)	SM4500H+ B									
pH		1	8.0	H		units	0.1	0.1	03/20/21 0:00	eep
pH measured at		1	21.7			C	0.1	0.1	03/20/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	03/23/21 23:23	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	318			mg/L	20	40	03/23/21 12:10	eep
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	03/22/21 13:33	scd
Sulfate	D516-02/-07/-11 - Turbidimetric	20	146		*	mg/L	20	100	04/01/21 13:38	wtc
TDS (calculated)	Calculation		291			mg/L			04/07/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.09						04/07/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: UG-11

ACZ Sample ID: **L64814-02**

Date Sampled: 03/17/21 09:30

Date Received: 03/18/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						03/22/21 18:59	bjp

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	49.8			mg/L	2	20	03/20/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	03/20/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	03/20/21 0:00	eep
Total Alkalinity		1	49.8			mg/L	2	20	03/20/21 0:00	eep
Conductivity @25C	SM2510B	1	463			umhos/cm	1	10	03/20/21 0:12	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	03/23/21 13:37	bjp
Fluoride	SM4500F-C	1	0.27	B		mg/L	0.11	0.35	03/24/21 17:31	eep
pH (lab)	SM4500H+ B									
pH		1	8.0	H		units	0.1	0.1	03/20/21 0:00	eep
pH measured at		1	21.8			C	0.1	0.1	03/20/21 0:00	eep

Ouray Silver Mines

Project ID:

Sample ID: UG-5

ACZ Sample ID: **L64814-03**

Date Sampled: 03/17/21 10:15

Date Received: 03/18/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						03/22/21 19:10	bjp
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								03/23/21 14:15	md

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	03/22/21 20:55	jlw
Antimony, dissolved	M200.8 ICP-MS	1	0.00114	B		mg/L	0.0004	0.002	03/22/21 17:17	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00208			mg/L	0.0002	0.001	03/22/21 17:17	bsu
Barium, dissolved	M200.7 ICP	1	0.0281	B		mg/L	0.007	0.035	03/22/21 20:55	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	03/22/21 17:17	bsu
Boron, dissolved	M200.7 ICP	1	0.029	B		mg/L	0.02	0.1	03/22/21 20:55	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	0.000840			mg/L	0.00005	0.00025	03/22/21 17:17	bsu
Calcium, dissolved	M200.7 ICP	1	69.0			mg/L	0.1	0.5	03/22/21 20:55	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	03/22/21 17:17	bsu
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	03/22/21 17:17	bsu
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	03/22/21 20:55	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.00025	B		mg/L	0.0001	0.0005	03/22/21 17:17	bsu
Magnesium, dissolved	M200.7 ICP	1	2.49			mg/L	0.2	1	03/22/21 20:55	jlw
Manganese, dissolved	M200.7 ICP	1	1.12		*	mg/L	0.01	0.05	03/22/21 20:55	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	03/23/21 12:33	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00384			mg/L	0.0002	0.0005	03/22/21 17:17	bsu
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	03/22/21 20:55	jlw
Potassium, dissolved	M200.7 ICP	1	0.46	B		mg/L	0.2	1	03/22/21 20:55	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00028			mg/L	0.0001	0.00025	03/22/21 17:17	bsu
Silica, dissolved	M200.7 ICP	1	7.9			mg/L	0.2	1	03/22/21 20:55	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/22/21 17:17	bsu
Sodium, dissolved	M200.7 ICP	1	9.94			mg/L	0.2	1	03/22/21 20:55	jlw
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/22/21 17:17	bsu
Uranium, dissolved	M200.8 ICP-MS	1	0.00026	B		mg/L	0.0001	0.0005	03/22/21 17:17	bsu
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	03/22/21 20:55	jlw
Zinc, dissolved	M200.7 ICP	1	0.360			mg/L	0.02	0.05	03/22/21 20:55	jlw

Ouray Silver Mines

Project ID:

Sample ID: UG-5

ACZ Sample ID: **L64814-03**

Date Sampled: 03/17/21 10:15

Date Received: 03/18/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	52.0			mg/L	2	20	03/20/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	03/20/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	03/20/21 0:00	eep
Total Alkalinity		1	52.0			mg/L	2	20	03/20/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			1.2			%			04/07/21 0:00	calc
Sum of Anions			4.1			meq/L			04/07/21 0:00	calc
Sum of Cations			4.2			meq/L			04/07/21 0:00	calc
Chloride	SM4500Cl-E	1	1.38	B		mg/L	0.5	2	04/01/21 21:26	syw
Conductivity @25C	SM2510B	1	427			umhos/cm	1	10	03/20/21 0:21	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	03/23/21 13:39	bjp
Fluoride	SM4500F-C	1	0.28	B		mg/L	0.11	0.35	03/24/21 17:35	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		183			mg/L	0.2	5	04/07/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	2.13		*	mg/L	0.02	0.1	03/26/21 0:18	pjb
pH (lab)	SM4500H+ B									
pH		1	8.0	H		units	0.1	0.1	03/20/21 0:00	eep
pH measured at		1	21.8			C	0.1	0.1	03/20/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	03/23/21 23:27	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	290			mg/L	20	40	03/23/21 12:12	eep
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	03/22/21 13:35	scd
Sulfate	D516-02/-07/-11 - Turbidimetric	20	142		*	mg/L	20	100	04/01/21 13:38	wtc
TDS (calculated)	Calculation		269			mg/L			04/07/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.08						04/07/21 0:00	calc



Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L64814**

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
WG516164													
WG516164PBW1	PBW	03/19/21 19:02				2.2	mg/L		-20	20			
WG516164LCSW3	LCSW	03/19/21 19:21	WC210305-1	820.0001		792	mg/L	97	90	110			
WG516164LCSW6	LCSW	03/19/21 22:38	WC210305-1	820.0001		782.5	mg/L	95	90	110			
WG516164PBW2	PBW	03/19/21 22:45				6.3	mg/L		-20	20			
L64814-03DUP	DUP	03/20/21 0:30			52	52.1	mg/L				0	20	
WG516164LCSW9	LCSW	03/20/21 2:04	WC210305-1	820.0001		799.2	mg/L	97	90	110			
WG516164PBW3	PBW	03/20/21 2:12				7.6	mg/L		-20	20			
WG516164LCSW15	LCSW	03/20/21 6:54	WC210305-1	820.0001		801.7	mg/L	98	90	110			

Aluminum, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516220													
WG516220ICV	ICV	03/22/21 19:19	II210317-1	2		1.963	mg/L	98	95	105			
WG516220ICB	ICB	03/22/21 19:25				U	mg/L		-0.15	0.15			
WG516220LFB	LFB	03/22/21 19:38	II210319-2	1.0013		.979	mg/L	98	85	115			
L64814-03AS	AS	03/22/21 20:58	II210319-2	1.0013	U	.962	mg/L	96	85	115			
L64814-03ASD	ASD	03/22/21 21:01	II210319-2	1.0013	U	.994	mg/L	99	85	115	3	20	

Antimony, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516236													
WG516236ICV	ICV	03/22/21 16:28	MS210115-2	.0201		.01836	mg/L	91	90	110			
WG516236ICB	ICB	03/22/21 16:30				U	mg/L		-0.00088	0.00088			
WG516236LFB	LFB	03/22/21 16:31	MS210312-6	.01		.00976	mg/L	98	85	115			
L64786-03AS	AS	03/22/21 17:08	MS210312-6	.01	U	.00918	mg/L	92	70	130			
L64786-03ASD	ASD	03/22/21 17:10	MS210312-6	.01	U	.00918	mg/L	92	70	130	0	20	

Arsenic, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516236													
WG516236ICV	ICV	03/22/21 16:28	MS210115-2	.05		.05088	mg/L	102	90	110			
WG516236ICB	ICB	03/22/21 16:30				U	mg/L		-0.00044	0.00044			
WG516236LFB	LFB	03/22/21 16:31	MS210312-6	.05005		.05001	mg/L	100	85	115			
L64786-03AS	AS	03/22/21 17:08	MS210312-6	.05005	.00062	.05284	mg/L	104	70	130			
L64786-03ASD	ASD	03/22/21 17:10	MS210312-6	.05005	.00062	.05262	mg/L	104	70	130	0	20	

Barium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516220													
WG516220ICV	ICV	03/22/21 19:19	II210317-1	2		1.9658	mg/L	98	95	105			
WG516220ICB	ICB	03/22/21 19:25				U	mg/L		-0.021	0.021			
WG516220LFB	LFB	03/22/21 19:38	II210319-2	.5		.4959	mg/L	99	85	115			
L64814-03AS	AS	03/22/21 20:58	II210319-2	.5	.0281	.5066	mg/L	96	85	115			
L64814-03ASD	ASD	03/22/21 21:01	II210319-2	.5	.0281	.5211	mg/L	99	85	115	3	20	

Ouray Silver Mines

ACZ Project ID: **L64814**

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
WG516236													
WG516236ICV	ICV	03/22/21 16:28	MS210115-2	.05		.049141	mg/L	98	90	110			
WG516236ICB	ICB	03/22/21 16:30				U	mg/L		-0.000176	0.000176			
WG516236LFB	LFB	03/22/21 16:31	MS210312-6	.05005		.04997	mg/L	100	85	115			
L64786-03AS	AS	03/22/21 17:08	MS210312-6	.05005	U	.040607	mg/L	81	70	130			
L64786-03ASD	ASD	03/22/21 17:10	MS210312-6	.05005	U	.04014	mg/L	80	70	130	1	20	

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516220													
WG516220ICV	ICV	03/22/21 19:19	II210317-1	2		2	mg/L	100	95	105			
WG516220ICB	ICB	03/22/21 19:25				U	mg/L		-0.06	0.06			
WG516220LFB	LFB	03/22/21 19:38	II210319-2	.5005		.518	mg/L	103	85	115			
L64814-03AS	AS	03/22/21 20:58	II210319-2	.5005	.029	.53	mg/L	100	85	115			
L64814-03ASD	ASD	03/22/21 21:01	II210319-2	.5005	.029	.55	mg/L	104	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
WG516236													
WG516236ICV	ICV	03/22/21 16:28	MS210115-2	.05		.051613	mg/L	103	90	110			
WG516236ICB	ICB	03/22/21 16:30				U	mg/L		-0.00011	0.00011			
WG516236LFB	LFB	03/22/21 16:31	MS210312-6	.05005		.049825	mg/L	100	85	115			
L64786-03AS	AS	03/22/21 17:08	MS210312-6	.05005	.00014	.04894	mg/L	98	70	130			
L64786-03ASD	ASD	03/22/21 17:10	MS210312-6	.05005	.00014	.048501	mg/L	97	70	130	1	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516220													
WG516220ICV	ICV	03/22/21 19:19	II210317-1	100		98.45	mg/L	98	95	105			
WG516220ICB	ICB	03/22/21 19:25				U	mg/L		-0.3	0.3			
WG516220LFB	LFB	03/22/21 19:38	II210319-2	68.00934		68.18	mg/L	100	85	115			
L64814-03AS	AS	03/22/21 20:58	II210319-2	68.00934	69	130.3	mg/L	90	85	115			
L64814-03ASD	ASD	03/22/21 21:01	II210319-2	68.00934	69	134.4	mg/L	96	85	115	3	20	

Chloride

SM4500Cl-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516814													
WG516814ICV	ICV	04/01/21 21:16	WI210325-1	55.055		52.65	mg/L	96	90	110			
WG516814ICB	ICB	04/01/21 21:17				U	mg/L		-1.5	1.5			
WG516814LFB1	LFB	04/01/21 21:17	WI200327-3	30.03		28.98	mg/L	97	90	110			
L64814-03AS	AS	04/01/21 21:27	WI200327-3	30.03	1.38	28.65	mg/L	91	90	110			
L64820-01DUP	DUP	04/01/21 21:28			8.63	9.46	mg/L				9	20	
WG516814LFB2	LFB	04/01/21 21:32	WI200327-3	30.03		30.48	mg/L	101	90	110			

Ouray Silver Mines

ACZ Project ID: **L64814**

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
WG516236													
WG516236ICV	ICV	03/22/21 16:28	MS210115-2	.05		.05087	mg/L	102	90	110			
WG516236ICB	ICB	03/22/21 16:30				U	mg/L		-0.0011	0.0011			
WG516236LFB	LFB	03/22/21 16:31	MS210312-6	.05		.04893	mg/L	98	85	115			
L64786-03AS	AS	03/22/21 17:08	MS210312-6	.05	U	.04772	mg/L	95	70	130			
L64786-03ASD	ASD	03/22/21 17:10	MS210312-6	.05	U	.04724	mg/L	94	70	130	1	20	

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516164													
WG516164LCSW2	LCSW	03/19/21 19:09	PCN63121	1410		1451	umhos/cm	103	90	110			
WG516164LCSW5	LCSW	03/19/21 22:26	PCN63121	1410		1436	umhos/cm	102	90	110			
L64814-03DUP	DUP	03/20/21 0:30			427	429	umhos/cm				0	20	
WG516164LCSW8	LCSW	03/20/21 1:51	PCN63121	1410		1430	umhos/cm	101	90	110			
WG516164LCSW11	LCSW	03/20/21 5:20	PCN63121	1410		1405	umhos/cm	100	90	110			
WG516164LCSW14	LCSW	03/20/21 6:40	PCN63121	1410		1394	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
WG516236													
WG516236ICV	ICV	03/22/21 16:28	MS210115-2	.05		.05221	mg/L	104	90	110			
WG516236ICB	ICB	03/22/21 16:30				U	mg/L		-0.00176	0.00176			
WG516236LFB	LFB	03/22/21 16:31	MS210312-6	.05		.04974	mg/L	99	85	115			
L64786-03AS	AS	03/22/21 17:08	MS210312-6	.05	.00139	.04819	mg/L	94	70	130			
L64786-03ASD	ASD	03/22/21 17:10	MS210312-6	.05	.00139	.04785	mg/L	93	70	130	1	20	

Cyanide, total

M335.4 - Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516279													
WG516279ICV	ICV	03/23/21 13:17	WI210318-11	.3		.2971	mg/L	99	90	110			
WG516279ICB	ICB	03/23/21 13:18				U	mg/L		-0.003	0.003			
WG516242LRB	LRB	03/23/21 13:19				U	mg/L		-0.003	0.003			
WG516242LFB	LFB	03/23/21 13:20	WI210318-8	.2		.1893	mg/L	95	90	110			
L64838-02DUP	DUP	03/23/21 13:42			U	U	mg/L				0	20	RA
L64839-01LFM	LFM	03/23/21 13:43	WI210318-8	.2	.216	.4333	mg/L	109	90	110			

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516397													
WG516397ICV	ICV	03/24/21 15:45	WC210226-7	2.002		1.96	mg/L	98	90	110			
WG516397ICB	ICB	03/24/21 15:54				U	mg/L		-0.22	0.22			
WG516397LFB	LFB	03/24/21 16:03	WC201221-2	5.015		4.84	mg/L	97	90	110			
L64814-03AS	AS	03/24/21 17:39	WC201221-2	5.015	.28	5.17	mg/L	98	90	110			
L64814-03ASD	ASD	03/24/21 17:44	WC201221-2	5.015	.28	5.15	mg/L	97	90	110	0	20	

Ouray Silver Mines

ACZ Project ID: **L64814**

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
WG516220													
WG516220ICV	ICV	03/22/21 19:19	II210317-1	2		1.937	mg/L	97	95	105			
WG516220ICB	ICB	03/22/21 19:25				U	mg/L		-0.18	0.18			
WG516220LFB	LFB	03/22/21 19:38	II210319-2	1.0018		.998	mg/L	100	85	115			
L64814-03AS	AS	03/22/21 20:58	II210319-2	1.0018	U	.966	mg/L	96	85	115			
L64814-03ASD	ASD	03/22/21 21:01	II210319-2	1.0018	U	.993	mg/L	99	85	115	3	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516236													
WG516236ICV	ICV	03/22/21 16:28	MS210115-2	.05		.05051	mg/L	101	90	110			
WG516236ICB	ICB	03/22/21 16:30				U	mg/L		-0.00022	0.00022			
WG516236LFB	LFB	03/22/21 16:31	MS210312-6	.05005		.04939	mg/L	99	85	115			
L64786-03AS	AS	03/22/21 17:08	MS210312-6	.05005	.0001	.04993	mg/L	100	70	130			
L64786-03ASD	ASD	03/22/21 17:10	MS210312-6	.05005	.0001	.04974	mg/L	99	70	130	0	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516220													
WG516220ICV	ICV	03/22/21 19:19	II210317-1	100		97.99	mg/L	98	95	105			
WG516220ICB	ICB	03/22/21 19:25				U	mg/L		-0.6	0.6			
WG516220LFB	LFB	03/22/21 19:38	II210319-2	50.00226		49.17	mg/L	98	85	115			
L64814-03AS	AS	03/22/21 20:58	II210319-2	50.00226	2.49	49.94	mg/L	95	85	115			
L64814-03ASD	ASD	03/22/21 21:01	II210319-2	50.00226	2.49	51.46	mg/L	98	85	115	3	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516220													
WG516220ICV	ICV	03/22/21 19:19	II210317-1	2		1.933	mg/L	97	95	105			
WG516220ICB	ICB	03/22/21 19:25				U	mg/L		-0.03	0.03			
WG516220LFB	LFB	03/22/21 19:38	II210319-2	.5005		.475	mg/L	95	85	115			
L64814-03AS	AS	03/22/21 20:58	II210319-2	.5005	1.12	1.481	mg/L	72	85	115			M2
L64814-03ASD	ASD	03/22/21 21:01	II210319-2	.5005	1.12	1.528	mg/L	82	85	115	3	20	M2

Mercury, dissolved

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516274													
WG516274ICV	ICV	03/23/21 12:08	HG210316-2	.005		.00501	mg/L	100	95	105			
WG516274ICB	ICB	03/23/21 12:09				U	mg/L		-0.0002	0.0002			
WG516274LRB	LRB	03/23/21 12:11				U	mg/L		-0.00044	0.00044			
WG516274LFB	LFB	03/23/21 12:12	HG210315-3	.002002		.00207	mg/L	103	85	115			
L64814-03LFM	LFM	03/23/21 12:34	HG210315-3	.002002	U	.00197	mg/L	98	85	115			
L64814-03LFMD	LFMD	03/23/21 12:35	HG210315-3	.002002	U	.00196	mg/L	98	85	115	1	20	

Ouray Silver Mines

ACZ Project ID: **L64814**

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.

Molybdenum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516236													
WG516236ICV	ICV	03/22/21 16:28	MS210115-2	.01992		.02011	mg/L	101	90	110			
WG516236ICB	ICB	03/22/21 16:30				U	mg/L		-0.00044	0.00044			
WG516236LFB	LFB	03/22/21 16:31	MS210312-6	.0501		.05006	mg/L	100	85	115			
L64786-03AS	AS	03/22/21 17:08	MS210312-6	.0501	.00026	.05033	mg/L	100	70	130			
L64786-03ASD	ASD	03/22/21 17:10	MS210312-6	.0501	.00026	.04958	mg/L	98	70	130	2	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516220													
WG516220ICV	ICV	03/22/21 19:19	II210317-1	2		1.9542	mg/L	98	95	105			
WG516220ICB	ICB	03/22/21 19:25				U	mg/L		-0.024	0.024			
WG516220LFB	LFB	03/22/21 19:38	II210319-2	.502		.496	mg/L	99	85	115			
L64814-03AS	AS	03/22/21 20:58	II210319-2	.502	U	.4769	mg/L	95	85	115			
L64814-03ASD	ASD	03/22/21 21:01	II210319-2	.502	U	.4893	mg/L	97	85	115	3	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
WG516477													
WG516477ICV	ICV	03/25/21 22:28	WI210302-17	2.416		2.35	mg/L	97	90	110			
WG516477ICB	ICB	03/25/21 22:29				U	mg/L		-0.02	0.02			
WG516479													
WG516479LFB	LFB	03/26/21 0:08	WI201001-11	2		1.9	mg/L	95	90	110			
L64675-01AS	AS	03/26/21 0:11	WI201001-11	2	U	1.883	mg/L	94	90	110			
L64675-02DUP	DUP	03/26/21 0:13			U	U	mg/L				0	20	RA

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516164													
WG516164LCSW1	LCSW	03/19/21 19:07	PCN61687	6		6	units	100	5.9	6.1			
WG516164LCSW4	LCSW	03/19/21 22:24	PCN61687	6		6.1	units	102	5.9	6.1			
L64814-03DUP	DUP	03/20/21 0:30			8	8	units				0	20	
WG516164LCSW7	LCSW	03/20/21 1:49	PCN61687	6		6.1	units	102	5.9	6.1			
WG516164LCSW13	LCSW	03/20/21 6:39	PCN61687	6		6.1	units	102	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
WG516329													
WG516329ICV	ICV	03/23/21 20:59	WI210224-6	.65228		.674	mg/L	103	90	110			
WG516329ICB	ICB	03/23/21 21:01				U	mg/L		-0.01	0.01			
WG516331													
WG516288LRB	LRB	03/23/21 23:00				U	mg/L		-0.01	0.01			
WG516288LFB	LFB	03/23/21 23:01	WI210316-2	.5		.486	mg/L	97	90	110			
L64809-02LFM	LFM	03/23/21 23:19	WI210316-2	.5	.039	.555	mg/L	103	90	110			
L64809-03DUP	DUP	03/23/21 23:21			U	U	mg/L				0	20	RA

Ouray Silver Mines

ACZ Project ID: **L64814**

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.

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516220													
WG516220ICV	ICV	03/22/21 19:19	II210317-1	20		19.68	mg/L	98	95	105			
WG516220ICB	ICB	03/22/21 19:25				U	mg/L		-0.6	0.6			
WG516220LFB	LFB	03/22/21 19:38	II210319-2	99.97791		98.8	mg/L	99	85	115			
L64814-03AS	AS	03/22/21 20:58	II210319-2	99.97791	.46	97.23	mg/L	97	85	115			
L64814-03ASD	ASD	03/22/21 21:01	II210319-2	99.97791	.46	99.69	mg/L	99	85	115	2	20	

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516286													
WG516286PBW	PBW	03/23/21 11:55				U	mg/L		-20	20			
WG516286LCSW	LCSW	03/23/21 11:56	PCN62900	1000		988	mg/L	99	80	120			
L64820-01DUP	DUP	03/23/21 12:18			226	220	mg/L				3	10	

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516231													
WG516231PBW	PBW	03/22/21 13:10				U	mg/L		-2	2			
WG516231LCSW	LCSW	03/22/21 13:11	PCN62900	100		89	mg/L	89	80	120			
L64798-01DUP	DUP	03/22/21 13:15			16	19	mg/L				17	10	RA
L64841-01DUP	DUP	03/22/21 13:41			U	U	mg/L				0	10	RA

Selenium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516236													
WG516236ICV	ICV	03/22/21 16:28	MS210115-2	.05		.05032	mg/L	101	90	110			
WG516236ICB	ICB	03/22/21 16:30				.00012	mg/L		-0.00022	0.00022			
WG516236LFB	LFB	03/22/21 16:31	MS210312-6	.05		.04859	mg/L	97	85	115			
L64786-03AS	AS	03/22/21 17:08	MS210312-6	.05	.00029	.05416	mg/L	108	70	130			
L64786-03ASD	ASD	03/22/21 17:10	MS210312-6	.05	.00029	.05425	mg/L	108	70	130	0	20	

Silica, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516220													
WG516220ICV	ICV	03/22/21 19:19	II210317-1	42.8		42.45	mg/L	99	95	105			
WG516220ICB	ICB	03/22/21 19:25				U	mg/L		-0.6	0.6			
WG516220LFB	LFB	03/22/21 19:38	II210319-2	21.415		21.97	mg/L	103	85	115			
L64814-03AS	AS	03/22/21 20:58	II210319-2	21.415	7.9	29.03	mg/L	99	85	115			
L64814-03ASD	ASD	03/22/21 21:01	II210319-2	21.415	7.9	30.02	mg/L	103	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
WG516236													
WG516236ICV	ICV	03/22/21 16:28	MS210115-2	.02004		.01925	mg/L	96	90	110			
WG516236ICB	ICB	03/22/21 16:30				U	mg/L		-0.00022	0.00022			
WG516236LFB	LFB	03/22/21 16:31	MS210312-6	.01002		.01061	mg/L	106	85	115			
L64786-03AS	AS	03/22/21 17:08	MS210312-6	.01002	U	.00732	mg/L	73	70	130			
L64786-03ASD	ASD	03/22/21 17:10	MS210312-6	.01002	U	.00768	mg/L	77	70	130	5	20	

Ouray Silver Mines

ACZ Project ID: **L64814**

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.

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516220													
WG516220ICV	ICV	03/22/21 19:19	II210317-1	100		97.13	mg/L	97	95	105			
WG516220ICB	ICB	03/22/21 19:25				U	mg/L		-0.6	0.6			
WG516220LFB	LFB	03/22/21 19:38	II210319-2	100.0235		97.37	mg/L	97	85	115			
L64814-03AS	AS	03/22/21 20:58	II210319-2	100.0235	9.94	105.4	mg/L	95	85	115			
L64814-03ASD	ASD	03/22/21 21:01	II210319-2	100.0235	9.94	108.1	mg/L	98	85	115	3	20	

Sulfate

D516-02/-07/-11 - Turbidimetric

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516789													
WG516789ICB	ICB	04/01/21 10:52				U	mg/L		-3	3			
WG516789ICV	ICV	04/01/21 10:52	WI210331-8	20		19.6	mg/L	98	90	110			
WG516789LFB	LFB	04/01/21 11:11	WI210105-3	10		10.5	mg/L	105	90	110			
L64700-01DUP	DUP	04/01/21 14:14			3280	2863.7	mg/L				14	20	
L64700-02AS	AS	04/01/21 14:14	SO4TURB60X	9.99	1560	1550.7	mg/L	-93	90	110			M3

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516236													
WG516236ICV	ICV	03/22/21 16:28	MS210115-2	.05		.04973	mg/L	99	90	110			
WG516236ICB	ICB	03/22/21 16:30				U	mg/L		-0.00022	0.00022			
WG516236LFB	LFB	03/22/21 16:31	MS210312-6	.05		.0467	mg/L	93	85	115			
L64786-03AS	AS	03/22/21 17:08	MS210312-6	.05	.00028	.04796	mg/L	95	70	130			
L64786-03ASD	ASD	03/22/21 17:10	MS210312-6	.05	.00028	.04786	mg/L	95	70	130	0	20	

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516236													
WG516236ICV	ICV	03/22/21 16:28	MS210115-2	.05		.05037	mg/L	101	90	110			
WG516236ICB	ICB	03/22/21 16:30				U	mg/L		-0.00022	0.00022			
WG516236LFB	LFB	03/22/21 16:31	MS210312-6	.05		.04869	mg/L	97	85	115			
L64786-03AS	AS	03/22/21 17:08	MS210312-6	.05	.00049	.05149	mg/L	102	70	130			
L64786-03ASD	ASD	03/22/21 17:10	MS210312-6	.05	.00049	.0512	mg/L	101	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
WG516220													
WG516220ICV	ICV	03/22/21 19:19	II210317-1	2		1.995	mg/L	100	95	105			
WG516220ICB	ICB	03/22/21 19:25				U	mg/L		-0.015	0.015			
WG516220LFB	LFB	03/22/21 19:38	II210319-2	.5005		.5065	mg/L	101	85	115			
L64814-03AS	AS	03/22/21 20:58	II210319-2	.5005	U	.491	mg/L	98	85	115			
L64814-03ASD	ASD	03/22/21 21:01	II210319-2	.5005	U	.508	mg/L	101	85	115	3	20	

Ouray Silver Mines

ACZ Project ID: **L64814**

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.

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516220													
WG516220ICV	ICV	03/22/21 19:19	II210317-1	2		1.915	mg/L	96	95	105			
WG516220ICB	ICB	03/22/21 19:25				U	mg/L		-0.06	0.06			
WG516220LFB	LFB	03/22/21 19:38	II210319-2	.50075		.488	mg/L	97	85	115			
L64814-03AS	AS	03/22/21 20:58	II210319-2	.50075	.36	.793	mg/L	86	85	115			
L64814-03ASD	ASD	03/22/21 21:01	II210319-2	.50075	.36	.821	mg/L	92	85	115	3	20	

Ouray Silver MinesACZ Project ID: **L64814**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L64814-01	WG516279	Cyanide, total	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).
	WG516220	Manganese, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG516479	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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).
	WG516331	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).
	WG516231	Residue, Non-Filterable (TSS) @105C	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
	WG516789	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.
L64814-02	WG516279	Cyanide, total	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).
L64814-03	WG516279	Cyanide, total	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).
	WG516220	Manganese, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG516479	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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).
	WG516331	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).
	WG516231	Residue, Non-Filterable (TSS) @105C	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
	WG516789	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.

Ouray Silver Mines

ACZ Project ID: **L64814**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L64814

Date Received: 03/18/2021 09:30

Received By:

Date Printed: 3/19/2021

Receipt Verification

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

Samples/Containers

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

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?
-----	-----	-----	-----	-----
4295	3.1	<=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.

Ouray Silver Mines

ACZ Project ID: L64814

Date Received: 03/18/2021 09:30

Received By:

Date Printed: 3/19/2021

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.

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

Analytical Quote

Jennifer Smith
Ouray Silver Mines
1900 Main St. P.O. Box 564
Ouray, CO 81427

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3/13/2020

Quote Number: GW

Matrix: Groundwater

Groundwater

Parameter	Method	Detection Limit	Cost/Sample
Diskette/QC Summary			
Quality Control Summary			\$0.00
Inorganic Prep			
Cyanide, total	M335.4 - Manual Distillation		\$0.00
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digesti		\$0.00
Metals Analysis			
Aluminum, dissolved	M200.7 ICP	0.05 mg/L	\$7.20
Antimony, dissolved	M200.8 ICP-MS	0.0004 mg/L	\$13.60
Arsenic, dissolved	M200.8 ICP-MS	0.0002 mg/L	\$13.60
Barium, dissolved	M200.7 ICP	0.007 mg/L	\$7.20
Beryllium, dissolved	M200.8 ICP-MS	0.00008 mg/L	\$13.60
Boron, dissolved	M200.7 ICP	0.02 mg/L	\$7.20
Cadmium, dissolved	M200.8 ICP-MS	0.00005 mg/L	\$13.60
Calcium, dissolved	M200.7 ICP	0.1 mg/L	\$7.20
Chromium, dissolved	M200.8 ICP-MS	0.0005 mg/L	\$13.60
Copper, dissolved	M200.8 ICP-MS	0.0008 mg/L	\$13.60
Iron, dissolved	M200.7 ICP	0.03 mg/L	\$7.20
Lead, dissolved	M200.8 ICP-MS	0.0001 mg/L	\$13.60
Magnesium, dissolved	M200.7 ICP	0.2 mg/L	\$7.20
Manganese, dissolved	M200.7 ICP	0.01 mg/L	\$7.20
Mercury, dissolved	M245.1 CVAA	0.0002 mg/L	\$17.60
Molybdenum, dissolved	M200.8 ICP-MS	0.0002 mg/L	\$13.60
Nickel, dissolved	M200.7 ICP	0.008 mg/L	\$7.20
Potassium, dissolved	M200.7 ICP	0.2 mg/L	\$7.20
Selenium, dissolved	M200.8 ICP-MS	0.0001 mg/L	\$13.60
Silica, dissolved	M200.7 ICP	0.214 mg/L	\$7.20
Silver, dissolved	M200.8 ICP-MS	0.0001 mg/L	\$13.60
Sodium, dissolved	M200.7 ICP	0.2 mg/L	\$7.20
Thallium, dissolved	M200.8 ICP-MS	0.0001 mg/L	\$13.60
Uranium, dissolved	M200.8 ICP-MS	0.0001 mg/L	\$13.60
Vanadium, dissolved	M200.7 ICP	0.005 mg/L	\$7.20
Zinc, dissolved	M200.7 ICP	0.01 mg/L	\$7.20
Misc.			
Electronic Data Deliverable			\$0.00

REPAD.09.06.05.01

S/ sh D/ 14 P/

ACZ Laboratories, Inc.

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

Analytical Quote

Jennifer Smith
Ouray Silver Mines
1900 Main St. P.O. Box 564
Ouray, CO 81427

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3/13/2020

Wet Chemistry

Alkalinity as CaCO ₃	SM2320B - Titration	2 mg/L	\$9.60
Cation-Anion Balance	Calculation		\$0.00
Chloride	SM4500Cl-E	0.5 mg/L	\$8.80
Conductivity @25C	SM2510B	1 umhos/cm	\$6.40
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.003 mg/L	\$29.60
Fluoride	SM4500F-C	0.11 mg/L	\$8.80
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation	Calculation	\$0.00
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	0.02 mg/L	\$8.80
pH (lab)	SM4500H+ B	0.1 C	\$6.40
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	0.01 mg/L	\$18.52
Residue, Filterable (TDS) @180C	SM2540C	20 mg/L	\$11.20
Residue, Non-Filterable (TSS) @105C	SM2540D	5 mg/L	\$9.60
Sulfate	D516-02/-07/-11 - Turbidimetric	1 mg/L	\$8.80
TDS (calculated)	Calculation	Calculation	\$0.00
TDS (ratio - measured/calculated)	Calculation	Calculation	\$0.00
Cost/Sample:			\$400.92

REPAD.09.06.05.01

S/ sh D/ 14 P/

April 19, 2021

Report to:

Briana Greer
Ouray Silver Mines
285 S. Madison Ave.

Louisville, CO 80027

cc: Chris Bolane, Accounts Payable

Bill to:

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

Project ID:

ACZ Project ID: L64934

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 25, 2021. This project has been assigned to ACZ's project number, L64934. 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 L64934. 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 May 19, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: UG-10

ACZ Sample ID: **L64934-01**

Date Sampled: 03/24/21 09:00

Date Received: 03/25/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						04/02/21 14:33	bjp
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								03/29/21 15:10	md

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	03/31/21 13:45	jlw
Antimony, dissolved	M200.8 ICP-MS	1	0.0118			mg/L	0.0004	0.002	04/02/21 10:43	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00234			mg/L	0.0002	0.001	03/31/21 13:43	mfm
Barium, dissolved	M200.7 ICP	1	0.0516			mg/L	0.007	0.035	03/31/21 9:27	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U	*	mg/L	0.00008	0.00025	03/31/21 13:43	mfm
Boron, dissolved	M200.7 ICP	1	0.133			mg/L	0.02	0.1	03/31/21 9:27	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	0.000788			mg/L	0.00005	0.00025	03/31/21 13:43	mfm
Calcium, dissolved	M200.7 ICP	1	86.8			mg/L	0.1	0.5	03/31/21 9:27	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	03/31/21 13:43	mfm
Copper, dissolved	M200.8 ICP-MS	1	0.00257			mg/L	0.0008	0.002	03/31/21 13:43	mfm
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	03/31/21 9:27	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.00558			mg/L	0.0001	0.0005	03/31/21 13:43	mfm
Magnesium, dissolved	M200.7 ICP	1	3.92			mg/L	0.2	1	03/31/21 9:27	jlw
Manganese, dissolved	M200.7 ICP	1	0.254			mg/L	0.01	0.05	03/31/21 9:27	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	03/30/21 9:15	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.0164			mg/L	0.0002	0.0005	03/31/21 13:43	mfm
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	03/31/21 9:27	jlw
Potassium, dissolved	M200.7 ICP	1	2.89			mg/L	0.2	1	03/31/21 9:27	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00063			mg/L	0.0001	0.00025	03/31/21 13:43	mfm
Silica, dissolved	M200.7 ICP	1	8.1			mg/L	0.2	1	03/31/21 9:27	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/31/21 13:43	mfm
Sodium, dissolved	M200.7 ICP	1	54.5		*	mg/L	0.2	1	03/31/21 13:45	jlw
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/31/21 13:43	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.00050	B		mg/L	0.0001	0.0005	03/31/21 13:43	mfm
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	03/31/21 9:27	jlw
Zinc, dissolved	M200.7 ICP	1	0.113			mg/L	0.02	0.05	03/31/21 9:27	jlw

Ouray Silver Mines

Project ID:

Sample ID: UG-10

ACZ Sample ID: **L64934-01**

Date Sampled: 03/24/21 09:00

Date Received: 03/25/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	36.6			mg/L	2	20	04/01/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	04/01/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	04/01/21 0:00	eep
Total Alkalinity		1	36.6			mg/L	2	20	04/01/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			32.1			%			04/19/21 0:00	calc
Sum of Anions			3.7			meq/L			04/19/21 0:00	calc
Sum of Cations			7.2			meq/L			04/19/21 0:00	calc
Chloride	SM4500Cl-E	1	3.34		*	mg/L	0.5	2	04/12/21 11:20	ttg
Conductivity @25C	SM2510B	1	864			umhos/cm	1	10	03/29/21 22:53	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	0.0092	B	*	mg/L	0.003	0.01	04/02/21 23:56	pjb
Fluoride	SM4500F-C	1	0.21	B		mg/L	0.15	0.35	04/06/21 14:15	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		233			mg/L	0.2	5	04/19/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	30	56.6			mg/L	0.6	3	04/03/21 3:32	pjb
pH (lab)	SM4500H+ B									
pH		1	7.6	H		units	0.1	0.1	03/31/21 0:00	eep
pH measured at		1	21.8			C	0.1	0.1	03/31/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.012	B	*	mg/L	0.01	0.05	03/31/21 1:13	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	586			mg/L	20	40	03/29/21 16:40	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	03/29/21 12:54	emk
Sulfate	D516-02/-07/-11 - Turbidimetric	5	134			mg/L	5	25	04/17/21 9:57	syw
TDS (calculated)	Calculation		319			mg/L			04/19/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.84						04/19/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: UG-4

ACZ Sample ID: **L64934-02**

Date Sampled: 03/24/21 09:45

Date Received: 03/25/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						04/02/21 15:01	bjp
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								03/29/21 15:15	md

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	03/31/21 13:48	jlw
Antimony, dissolved	M200.8 ICP-MS	1	0.00404			mg/L	0.0004	0.002	04/02/21 10:45	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00698			mg/L	0.0002	0.001	03/31/21 13:44	mfm
Barium, dissolved	M200.7 ICP	1	0.0252	B		mg/L	0.007	0.035	03/31/21 9:36	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U	*	mg/L	0.00008	0.00025	03/31/21 13:44	mfm
Boron, dissolved	M200.7 ICP	1	0.055	B		mg/L	0.02	0.1	03/31/21 9:36	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	0.000135	B		mg/L	0.00005	0.00025	03/31/21 13:44	mfm
Calcium, dissolved	M200.7 ICP	1	60.0			mg/L	0.1	0.5	03/31/21 9:36	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	03/31/21 13:44	mfm
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	03/31/21 13:44	mfm
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	03/31/21 9:36	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.00088			mg/L	0.0001	0.0005	03/31/21 13:44	mfm
Magnesium, dissolved	M200.7 ICP	1	2.49			mg/L	0.2	1	03/31/21 9:36	jlw
Manganese, dissolved	M200.7 ICP	1	0.015	B		mg/L	0.01	0.05	03/31/21 9:36	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	03/30/21 9:18	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00929			mg/L	0.0002	0.0005	03/31/21 13:44	mfm
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	03/31/21 9:36	jlw
Potassium, dissolved	M200.7 ICP	1	0.58	B		mg/L	0.2	1	03/31/21 9:36	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00041			mg/L	0.0001	0.00025	03/31/21 13:44	mfm
Silica, dissolved	M200.7 ICP	1	7.2			mg/L	0.2	1	03/31/21 9:36	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/31/21 13:44	mfm
Sodium, dissolved	M200.7 ICP	1	19.7		*	mg/L	0.2	1	03/31/21 13:48	jlw
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/31/21 13:44	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.00068			mg/L	0.0001	0.0005	03/31/21 13:44	mfm
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	03/31/21 9:36	jlw
Zinc, dissolved	M200.7 ICP	1	0.032	B		mg/L	0.02	0.05	03/31/21 9:36	jlw

Ouray Silver Mines

Project ID:

Sample ID: UG-4

ACZ Sample ID: **L64934-02**

Date Sampled: 03/24/21 09:45

Date Received: 03/25/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	59.0			mg/L	2	20	04/01/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	04/01/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	04/01/21 0:00	eep
Total Alkalinity		1	59.0			mg/L	2	20	04/01/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			5.1			%			04/19/21 0:00	calc
Sum of Anions			3.7			meq/L			04/19/21 0:00	calc
Sum of Cations			4.1			meq/L			04/19/21 0:00	calc
Chloride	SM4500Cl-E	1	2.52		*	mg/L	0.5	2	04/12/21 11:20	ttg
Conductivity @25C	SM2510B	1	443			umhos/cm	1	10	03/29/21 23:02	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	0.0042	B	*	mg/L	0.003	0.01	04/02/21 23:58	pjb
Fluoride	SM4500F-C	1	0.36			mg/L	0.15	0.35	04/06/21 14:22	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		160			mg/L	0.2	5	04/19/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	4	7.94			mg/L	0.08	0.4	04/03/21 3:33	pjb
pH (lab)	SM4500H+ B									
pH		1	8.0	H		units	0.1	0.1	03/31/21 0:00	eep
pH measured at		1	21.9			C	0.1	0.1	03/31/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.011	B	*	mg/L	0.01	0.05	03/31/21 1:14	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	288			mg/L	20	40	03/29/21 16:43	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	5.0	B	*	mg/L	5	20	03/29/21 20:14	jck
Sulfate	D516-02/-07/-11 - Turbidimetric	5	115			mg/L	5	25	04/07/21 15:44	wtc
TDS (calculated)	Calculation		246			mg/L			04/19/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.17						04/19/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: UG-2

ACZ Sample ID: **L64934-03**

Date Sampled: 03/24/21 10:45

Date Received: 03/25/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						04/02/21 15:30	bjp
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								03/29/21 15:20	md

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	03/31/21 13:51	jlw
Antimony, dissolved	M200.8 ICP-MS	1	0.00093	B		mg/L	0.0004	0.002	04/02/21 10:47	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00232			mg/L	0.0002	0.001	03/31/21 13:46	mfm
Barium, dissolved	M200.7 ICP	1	0.0252	B		mg/L	0.007	0.035	03/31/21 9:40	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	03/31/21 13:46	mfm
Boron, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.1	03/31/21 9:40	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	0.000927			mg/L	0.00005	0.00025	03/31/21 13:46	mfm
Calcium, dissolved	M200.7 ICP	1	61.3			mg/L	0.1	0.5	03/31/21 9:40	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	03/31/21 13:46	mfm
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	03/31/21 13:46	mfm
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	03/31/21 9:40	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.00012	B		mg/L	0.0001	0.0005	03/31/21 13:46	mfm
Magnesium, dissolved	M200.7 ICP	1	2.30			mg/L	0.2	1	03/31/21 9:40	jlw
Manganese, dissolved	M200.7 ICP	1	1.31			mg/L	0.01	0.05	03/31/21 9:40	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	03/30/21 9:18	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00253			mg/L	0.0002	0.0005	03/31/21 13:46	mfm
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	03/31/21 9:40	jlw
Potassium, dissolved	M200.7 ICP	1	0.31	B		mg/L	0.2	1	03/31/21 9:40	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00033			mg/L	0.0001	0.00025	03/31/21 13:46	mfm
Silica, dissolved	M200.7 ICP	1	7.3			mg/L	0.2	1	03/31/21 9:40	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/31/21 13:46	mfm
Sodium, dissolved	M200.7 ICP	1	10.4		*	mg/L	0.2	1	03/31/21 13:51	jlw
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/31/21 13:46	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.00028	B		mg/L	0.0001	0.0005	03/31/21 13:46	mfm
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	03/31/21 9:40	jlw
Zinc, dissolved	M200.7 ICP	1	0.394			mg/L	0.02	0.05	03/31/21 9:40	jlw

Ouray Silver Mines

Project ID:

Sample ID: UG-2

ACZ Sample ID: **L64934-03**

Date Sampled: 03/24/21 10:45

Date Received: 03/25/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	48.7			mg/L	2	20	04/01/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	04/01/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	04/01/21 0:00	eep
Total Alkalinity		1	48.7			mg/L	2	20	04/01/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			04/19/21 0:00	calc
Sum of Anions			3.8			meq/L			04/19/21 0:00	calc
Sum of Cations			3.8			meq/L			04/19/21 0:00	calc
Chloride	SM4500Cl-E	1	1.50	B	*	mg/L	0.5	2	04/12/21 11:20	ttg
Conductivity @25C	SM2510B	1	399			umhos/cm	1	10	03/29/21 23:10	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	04/02/21 23:59	pjb
Fluoride	SM4500F-C	1	0.19	B		mg/L	0.15	0.35	04/06/21 14:30	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		163			mg/L	0.2	5	04/19/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	1.90			mg/L	0.02	0.1	04/03/21 4:07	pjb
pH (lab)	SM4500H+ B									
pH		1	7.9	H		units	0.1	0.1	03/31/21 0:00	eep
pH measured at		1	21.9			C	0.1	0.1	03/31/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	03/31/21 1:16	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	264			mg/L	20	40	03/29/21 16:45	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	03/29/21 20:16	jck
Sulfate	D516-02/-07/-11 - Turbidimetric	5	130			mg/L	5	25	04/07/21 15:44	wtc
TDS (calculated)	Calculation		247			mg/L			04/19/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.07						04/19/21 0:00	calc



Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L64934**

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
WG516815													
WG516815PBW1	PBW	04/01/21 18:37				4.1	mg/L		-20	20			
WG516815PBW2	PBW	04/01/21 21:12				4.2	mg/L		-20	20			
L64958-01DUP	DUP	04/01/21 22:47			309	293.6	mg/L				5	20	
WG516815PBW3	PBW	04/02/21 0:51				4.2	mg/L		-20	20			

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516708													
WG516708ICV	ICV	03/31/21 13:10	II210317-1	2		1.909	mg/L	95	95	105			
WG516708ICB	ICB	03/31/21 13:16				U	mg/L		-0.15	0.15			
WG516708LFB	LFB	03/31/21 13:29	II210319-2	1.0013		.915	mg/L	91	85	115			
L64933-01AS	AS	03/31/21 13:38	II210319-2	1.0013	U	1.04	mg/L	104	85	115			
L64933-01ASD	ASD	03/31/21 13:41	II210319-2	1.0013	U	.958	mg/L	96	85	115	8	20	

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516838													
WG516838ICV	ICV	04/02/21 10:37	MS210330-3	.0201		.02088	mg/L	104	90	110			
WG516838ICB	ICB	04/02/21 10:39				.00072	mg/L		-0.00088	0.00088			
WG516838LFB	LFB	04/02/21 10:41	MS210312-6	.01		.0085	mg/L	85	85	115			
L64962-02AS	AS	04/02/21 10:52	MS210312-6	.01	U	.00787	mg/L	79	70	130			
L64962-02ASD	ASD	04/02/21 10:54	MS210312-6	.01	U	.00838	mg/L	84	70	130	6	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516737													
WG516737ICV	ICV	03/31/21 13:34	MS210330-3	.05		.04627	mg/L	93	90	110			
WG516737ICB	ICB	03/31/21 13:36				U	mg/L		-0.00044	0.00044			
WG516737LFB	LFB	03/31/21 13:39	MS210312-6	.05005		.0486	mg/L	97	85	115			
L64935-01AS	AS	03/31/21 13:50	MS210312-6	.05005	U	.05139	mg/L	103	70	130			
L64935-01ASD	ASD	03/31/21 13:52	MS210312-6	.05005	U	.05053	mg/L	101	70	130	2	20	

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516664													
WG516664ICV	ICV	03/31/21 8:38	II210317-1	2		1.9258	mg/L	96	95	105			
WG516664ICB	ICB	03/31/21 8:45				U	mg/L		-0.021	0.021			
WG516664LFB	LFB	03/31/21 8:58	II210319-2	.5		.4737	mg/L	95	85	115			
L64932-02AS	AS	03/31/21 9:17	II210319-2	.5	.052	.5163	mg/L	93	85	115			
L64932-02ASD	ASD	03/31/21 9:20	II210319-2	.5	.052	.5214	mg/L	94	85	115	1	20	

Ouray Silver Mines

ACZ Project ID: **L64934**

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
WG516737													
WG516737ICV	ICV	03/31/21 13:34	MS210330-3	.05		.046638	mg/L	93	90	110			
WG516737ICB	ICB	03/31/21 13:36				U	mg/L		-0.000176	0.000176			
WG516737LFB	LFB	03/31/21 13:39	MS210312-6	.05005		.048853	mg/L	98	85	115			
L64935-01AS	AS	03/31/21 13:50	MS210312-6	.05005	U	.04948	mg/L	99	70	130			
L64935-01ASD	ASD	03/31/21 13:52	MS210312-6	.05005	U	.050874	mg/L	102	70	130	3	20	

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516664													
WG516664ICV	ICV	03/31/21 8:38	II210317-1	2		1.994	mg/L	100	95	105			
WG516664ICB	ICB	03/31/21 8:45				U	mg/L		-0.06	0.06			
WG516664LFB	LFB	03/31/21 8:58	II210319-2	.5005		.508	mg/L	101	85	115			
L64932-02AS	AS	03/31/21 9:17	II210319-2	.5005	.136	.626	mg/L	98	85	115			
L64932-02ASD	ASD	03/31/21 9:20	II210319-2	.5005	.136	.631	mg/L	99	85	115	1	20	

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516737													
WG516737ICV	ICV	03/31/21 13:34	MS210330-3	.05		.049791	mg/L	100	90	110			
WG516737ICB	ICB	03/31/21 13:36				.000053	mg/L		-0.00011	0.00011			
WG516737LFB	LFB	03/31/21 13:39	MS210312-6	.05005		.050546	mg/L	101	85	115			
L64935-01AS	AS	03/31/21 13:50	MS210312-6	.05005	U	.050584	mg/L	101	70	130			
L64935-01ASD	ASD	03/31/21 13:52	MS210312-6	.05005	U	.052212	mg/L	104	70	130	3	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516664													
WG516664ICV	ICV	03/31/21 8:38	II210317-1	100		97.8	mg/L	98	95	105			
WG516664ICB	ICB	03/31/21 8:45				U	mg/L		-0.3	0.3			
WG516664LFB	LFB	03/31/21 8:58	II210319-2	68.00934		65.77	mg/L	97	85	115			
L64932-02AS	AS	03/31/21 9:17	II210319-2	68.00934	57	120	mg/L	93	85	115			
L64932-02ASD	ASD	03/31/21 9:20	II210319-2	68.00934	57	121.7	mg/L	95	85	115	1	20	

Chloride

SM4500Cl-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517257													
WG517257ICB	ICB	04/12/21 10:13				.52	mg/L		-1.5	1.5			
WG517257ICV	ICV	04/12/21 10:13	WI210325-1	55.055		52.56	mg/L	95	90	110			
WG517257LFB1	LFB	04/12/21 11:20	WI200327-3	30.03		29.24	mg/L	97	90	110			
L64934-01AS	AS	04/12/21 11:20	WI200327-3	30.03	3.34	32.31	mg/L	96	90	110			
L64934-02DUP	DUP	04/12/21 11:20			2.52	2.48	mg/L				2	20	RA
WG517257LFB2	LFB	04/12/21 11:24	WI200327-3	30.03		28.83	mg/L	96	90	110			

Ouray Silver Mines

ACZ Project ID: **L64934**

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
WG516737													
WG516737ICV	ICV	03/31/21 13:34	MS210330-3	.05		.04798	mg/L	96	90	110			
WG516737ICB	ICB	03/31/21 13:36				U	mg/L		-0.0011	0.0011			
WG516737LFB	LFB	03/31/21 13:39	MS210312-6	.05		.04808	mg/L	96	85	115			
L64935-01AS	AS	03/31/21 13:50	MS210312-6	.05	U	.04646	mg/L	93	70	130			
L64935-01ASD	ASD	03/31/21 13:52	MS210312-6	.05	U	.04635	mg/L	93	70	130	0	20	

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516594													
WG516594LCSW2	LCSW	03/29/21 16:07	PCN63122	1410		1439	umhos/cm	102	90	110			
WG516594LCSW5	LCSW	03/29/21 18:50	PCN63122	1410		1423	umhos/cm	101	90	110			
WG516594LCSW8	LCSW	03/29/21 22:09	PCN63122	1410		1402	umhos/cm	99	90	110			
L64949-01DUP	DUP	03/29/21 23:47			909	910	umhos/cm				0	20	
WG516594LCSW11	LCSW	03/30/21 1:27	PCN63122	1410		1388	umhos/cm	98	90	110			
WG516594LCSW14	LCSW	03/30/21 5:08	PCN63122	1410		1379	umhos/cm	98	90	110			

Copper, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516737													
WG516737ICV	ICV	03/31/21 13:34	MS210330-3	.05		.05186	mg/L	104	90	110			
WG516737ICB	ICB	03/31/21 13:36				U	mg/L		-0.00176	0.00176			
WG516737LFB	LFB	03/31/21 13:39	MS210312-6	.05		.05243	mg/L	105	85	115			
L64935-01AS	AS	03/31/21 13:50	MS210312-6	.05	U	.05015	mg/L	100	70	130			
L64935-01ASD	ASD	03/31/21 13:52	MS210312-6	.05	U	.05059	mg/L	101	70	130	1	20	

Cyanide, total

M335.4 - Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516894													
WG516894ICV	ICV	04/02/21 23:52	WI210331-5	.3		.2798	mg/L	93	90	110			
WG516894ICB	ICB	04/02/21 23:53				U	mg/L		-0.003	0.003			
WG516867LRB	LRB	04/02/21 23:54				U	mg/L		-0.003	0.003			
WG516867LFB	LFB	04/02/21 23:55	WI210331-2	.2		.1997	mg/L	100	90	110			
L64934-01DUP	DUP	04/02/21 23:57			.0092	.0087	mg/L				6	20	RA
L64934-02LFM	LFM	04/02/21 23:59	WI210331-2	.2	.0042	.2064	mg/L	101	90	110			

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516991													
WG516991ICV	ICV	04/06/21 13:37	WC210325-4	2.002		1.96	mg/L	98	90	110			
WG516991ICB	ICB	04/06/21 13:45				U	mg/L		-0.3	0.3			
WG516991LFB1	LFB	04/06/21 13:52	WC201221-2	5.015		4.75	mg/L	95	90	110			
L64899-01AS	AS	04/06/21 14:03	WC201221-2	5.015	.77	5.48	mg/L	94	90	110			
L64899-01ASD	ASD	04/06/21 14:07	WC201221-2	5.015	.77	5.4	mg/L	92	90	110	1	20	
WG516991LFB2	LFB	04/06/21 17:11	WC201221-2	5.015		4.91	mg/L	98	90	110			

Ouray Silver Mines

ACZ Project ID: **L64934**

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
WG516664													
WG516664ICV	ICV	03/31/21 8:38	II210317-1	2		1.9	mg/L	95	95	105			
WG516664ICB	ICB	03/31/21 8:45				U	mg/L		-0.18	0.18			
WG516664LFB	LFB	03/31/21 8:58	II210319-2	1.0018		.951	mg/L	95	85	115			
L64932-02AS	AS	03/31/21 9:17	II210319-2	1.0018	U	.932	mg/L	93	85	115			
L64932-02ASD	ASD	03/31/21 9:20	II210319-2	1.0018	U	.941	mg/L	94	85	115	1	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516737													
WG516737ICV	ICV	03/31/21 13:34	MS210330-3	.05		.04758	mg/L	95	90	110			
WG516737ICB	ICB	03/31/21 13:36				U	mg/L		-0.00022	0.00022			
WG516737LFB	LFB	03/31/21 13:39	MS210312-6	.05005		.04772	mg/L	95	85	115			
L64935-01AS	AS	03/31/21 13:50	MS210312-6	.05005	U	.04624	mg/L	92	70	130			
L64935-01ASD	ASD	03/31/21 13:52	MS210312-6	.05005	U	.04782	mg/L	96	70	130	3	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516664													
WG516664ICV	ICV	03/31/21 8:38	II210317-1	100		97.59	mg/L	98	95	105			
WG516664ICB	ICB	03/31/21 8:45				U	mg/L		-0.6	0.6			
WG516664LFB	LFB	03/31/21 8:58	II210319-2	50.00226		47.99	mg/L	96	85	115			
L64932-02AS	AS	03/31/21 9:17	II210319-2	50.00226	13.7	60.93	mg/L	94	85	115			
L64932-02ASD	ASD	03/31/21 9:20	II210319-2	50.00226	13.7	62.02	mg/L	97	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
WG516664													
WG516664ICV	ICV	03/31/21 8:38	II210317-1	2		1.935	mg/L	97	95	105			
WG516664ICB	ICB	03/31/21 8:45				U	mg/L		-0.03	0.03			
WG516664LFB	LFB	03/31/21 8:58	II210319-2	.5005		.465	mg/L	93	85	115			
L64932-02AS	AS	03/31/21 9:17	II210319-2	.5005	U	.455	mg/L	91	85	115			
L64932-02ASD	ASD	03/31/21 9:20	II210319-2	.5005	U	.461	mg/L	92	85	115	1	20	

Mercury, dissolved

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516585													
WG516585ICV1	ICV	03/30/21 8:34	HG210329-2	.00501		.005	mg/L	100	95	105			
WG516585ICB	ICB	03/30/21 8:35				U	mg/L		-0.0002	0.0002			
WG516586													
WG516586LRB	LRB	03/30/21 9:13				U	mg/L		-0.00044	0.00044			
WG516586LFB	LFB	03/30/21 9:14	HG210326-3	.002002		.00194	mg/L	97	85	115			
L64934-01LFM	LFM	03/30/21 9:16	HG210326-3	.002002	U	.00199	mg/L	99	85	115			
L64934-01LFMD	LFMD	03/30/21 9:17	HG210326-3	.002002	U	.00199	mg/L	99	85	115	0	20	

Ouray Silver Mines

ACZ Project ID: **L64934**

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.

Molybdenum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516737													
WG516737ICV	ICV	03/31/21 13:34	MS210330-3	.01992		.01894	mg/L	95	90	110			
WG516737ICB	ICB	03/31/21 13:36				U	mg/L		-0.00044	0.00044			
WG516737LFB	LFB	03/31/21 13:39	MS210312-6	.0501		.04824	mg/L	96	85	115			
L64935-01AS	AS	03/31/21 13:50	MS210312-6	.0501	.001	.04755	mg/L	93	70	130			
L64935-01ASD	ASD	03/31/21 13:52	MS210312-6	.0501	.001	.04982	mg/L	97	70	130	5	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516664													
WG516664ICV	ICV	03/31/21 8:38	II210317-1	2		1.96	mg/L	98	95	105			
WG516664ICB	ICB	03/31/21 8:45				U	mg/L		-0.024	0.024			
WG516664LFB	LFB	03/31/21 8:58	II210319-2	.502		.4894	mg/L	97	85	115			
L64932-02AS	AS	03/31/21 9:17	II210319-2	.502	U	.4814	mg/L	96	85	115			
L64932-02ASD	ASD	03/31/21 9:20	II210319-2	.502	U	.4898	mg/L	98	85	115	2	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
WG516897													
WG516897ICV	ICV	04/03/21 2:46	WI210302-17	2.416		2.272	mg/L	94	90	110			
WG516897ICB	ICB	04/03/21 2:47				U	mg/L		-0.02	0.02			
L64910-02DUP	DUP	04/03/21 2:56			.213	.217	mg/L				2	20	
WG516897LFB	LFB	04/03/21 3:28	WI210331-13	2		1.943	mg/L	97	90	110			
L64910-01AS	AS	04/03/21 3:30	WI210331-13	2	U	2.015	mg/L	101	90	110			

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516764													
WG516764LCSW1	LCSW	03/31/21 20:55	PCN61687	6		5.9	units	98	5.9	6.1			
L64937-01DUP	DUP	03/31/21 23:24			8.6	8.6	units				0	20	
WG516764LCSW4	LCSW	04/01/21 0:56	PCN61687	6		6.1	units	102	5.9	6.1			
WG516764LCSW7	LCSW	04/01/21 4:18	PCN61687	6		6.1	units	102	5.9	6.1			
WG516764LCSW13	LCSW	04/01/21 11:56	PCN61687	6		6.1	units	102	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
WG516679													
WG516679ICV	ICV	03/30/21 23:02	WI210224-6	.65228		.674	mg/L	103	90	110			
WG516679ICB	ICB	03/30/21 23:05				U	mg/L		-0.01	0.01			
WG516680													
WG516592LRB	LRB	03/31/21 1:00				U	mg/L		-0.01	0.01			
WG516592LFB	LFB	03/31/21 1:01	WI210316-2	.5		.501	mg/L	100	90	110			
L64929-01LFM	LFM	03/31/21 1:03	WI210316-2	.5	U	.515	mg/L	103	90	110			
L64930-01DUP	DUP	03/31/21 1:05			.024	.024	mg/L				0	20	RA

Ouray Silver Mines

ACZ Project ID: **L64934**

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.

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516664													
WG516664ICV	ICV	03/31/21 8:38	II210317-1	20		19.42	mg/L	97	95	105			
WG516664ICB	ICB	03/31/21 8:45				U	mg/L		-0.6	0.6			
WG516664LFB	LFB	03/31/21 8:58	II210319-2	99.97791		94.6	mg/L	95	85	115			
L64932-02AS	AS	03/31/21 9:17	II210319-2	99.97791	12.8	105.9	mg/L	93	85	115			
L64932-02ASD	ASD	03/31/21 9:20	II210319-2	99.97791	12.8	107.6	mg/L	95	85	115	2	20	

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516607													
WG516607PBW	PBW	03/29/21 16:30				U	mg/L		-20	20			
WG516607LCSW	LCSW	03/29/21 16:32	PCN62900	1000		988	mg/L	99	80	120			
L64951-01DUP	DUP	03/29/21 17:01			29400	31100	mg/L				6	10	

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516582													
WG516582PBW	PBW	03/29/21 12:46				U	mg/L		-5	5			
WG516582LCSW	LCSW	03/29/21 12:47	PCN62903	100		98	mg/L	98	80	120			
L64962-03DUP	DUP	03/29/21 13:01			U	U	mg/L				0	10	RA
WG516615													
WG516615PBW	PBW	03/29/21 20:10				U	mg/L		-5	5			
WG516615LCSW	LCSW	03/29/21 20:12	PCN62903	100		100	mg/L	100	80	120			
L64954-03DUP	DUP	03/29/21 20:36			U	U	mg/L				0	10	RA

Selenium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516737													
WG516737ICV	ICV	03/31/21 13:34	MS210330-3	.05		.04686	mg/L	94	90	110			
WG516737ICB	ICB	03/31/21 13:36				.00011	mg/L		-0.00022	0.00022			
WG516737LFB	LFB	03/31/21 13:39	MS210312-6	.05		.04729	mg/L	95	85	115			
L64935-01AS	AS	03/31/21 13:50	MS210312-6	.05	.00012	.05351	mg/L	107	70	130			
L64935-01ASD	ASD	03/31/21 13:52	MS210312-6	.05	.00012	.05223	mg/L	104	70	130	2	20	

Silica, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516664													
WG516664ICV	ICV	03/31/21 8:38	II210317-1	42.8		41.9	mg/L	98	95	105			
WG516664ICB	ICB	03/31/21 8:45				U	mg/L		-0.6	0.6			
WG516664LFB	LFB	03/31/21 8:58	II210319-2	21.415		21.03	mg/L	98	85	115			
L64932-02AS	AS	03/31/21 9:17	II210319-2	21.415	12.6	33.32	mg/L	97	85	115			
L64932-02ASD	ASD	03/31/21 9:20	II210319-2	21.415	12.6	33.63	mg/L	98	85	115	1	20	

Ouray Silver Mines

ACZ Project ID: **L64934**

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.

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516737													
WG516737ICV	ICV	03/31/21 13:34	MS210330-3	.02004		.02204	mg/L	110	90	110			
WG516737ICB	ICB	03/31/21 13:36				U	mg/L		-0.00022	0.00022			
WG516737LFB	LFB	03/31/21 13:39	MS210312-6	.01002		.0114	mg/L	114	85	115			
L64935-01AS	AS	03/31/21 13:50	MS210312-6	.01002	U	.01037	mg/L	103	70	130			
L64935-01ASD	ASD	03/31/21 13:52	MS210312-6	.01002	U	.0105	mg/L	105	70	130	1	20	

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516708													
WG516708ICV	ICV	03/31/21 13:10	II210317-1	100		98.08	mg/L	98	95	105			
WG516708ICB	ICB	03/31/21 13:16				U	mg/L		-0.6	0.6			
WG516708LFB	LFB	03/31/21 13:29	II210319-2	100.0235		95.48	mg/L	95	85	115			
L64933-01AS	AS	03/31/21 13:38	II210319-2	100.0235	206	286.8	mg/L	81	85	115			M2
L64933-01ASD	ASD	03/31/21 13:41	II210319-2	100.0235	206	286.6	mg/L	81	85	115	0	20	M2

Sulfate

D516-02/-07/-11 - Turbidimetric

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517047													
WG517047ICB	ICB	04/07/21 12:30				U	mg/L		-3	3			
WG517047ICV	ICV	04/07/21 12:30	WI210331-8	20		20.6	mg/L	103	90	110			
WG517047LFB	LFB	04/07/21 14:59	WI210105-3	10		10.8	mg/L	108	90	110			
L64938-03AS	AS	04/07/21 15:51	SO4TURB20X	10	479	488.4	mg/L	94	90	110			
L64947-01DUP	DUP	04/07/21 16:05			2980	2920.8	mg/L				2	20	
WG517632													
WG517632ICB	ICB	04/17/21 9:25				U	mg/L		-3	3			
WG517632ICV	ICV	04/17/21 9:25	WI210415-1	20		20	mg/L	100	90	110			
WG517632LFB	LFB	04/17/21 9:35	WI210105-3	10		9.9	mg/L	99	90	110			
L64943-01AS	AS	04/17/21 9:43	SO4TURB5X	10	46.5	56.8	mg/L	103	90	110			
L64934-01DUP	DUP	04/17/21 9:57			134	135.4	mg/L				1	20	

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516737													
WG516737ICV	ICV	03/31/21 13:34	MS210330-3	.05		.04598	mg/L	92	90	110			
WG516737ICB	ICB	03/31/21 13:36				U	mg/L		-0.00022	0.00022			
WG516737LFB	LFB	03/31/21 13:39	MS210312-6	.05		.04494	mg/L	90	85	115			
L64935-01AS	AS	03/31/21 13:50	MS210312-6	.05	U	.0437	mg/L	87	70	130			
L64935-01ASD	ASD	03/31/21 13:52	MS210312-6	.05	U	.04489	mg/L	90	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
WG516737													
WG516737ICV	ICV	03/31/21 13:34	MS210330-3	.05		.04767	mg/L	95	90	110			
WG516737ICB	ICB	03/31/21 13:36				U	mg/L		-0.00022	0.00022			
WG516737LFB	LFB	03/31/21 13:39	MS210312-6	.05		.04781	mg/L	96	85	115			
L64935-01AS	AS	03/31/21 13:50	MS210312-6	.05	.00026	.04661	mg/L	93	70	130			
L64935-01ASD	ASD	03/31/21 13:52	MS210312-6	.05	.00026	.04858	mg/L	97	70	130	4	20	

Ouray Silver Mines

ACZ Project ID: **L64934**

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.

Vanadium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516664													
WG516664ICV	ICV	03/31/21 8:38	II210317-1	2		1.917	mg/L	96	95	105			
WG516664ICB	ICB	03/31/21 8:45				U	mg/L		-0.015	0.015			
WG516664LFB	LFB	03/31/21 8:58	II210319-2	.5005		.475	mg/L	95	85	115			
L64932-02AS	AS	03/31/21 9:17	II210319-2	.5005	U	.4691	mg/L	94	85	115			
L64932-02ASD	ASD	03/31/21 9:20	II210319-2	.5005	U	.479	mg/L	96	85	115	2	20	

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516664													
WG516664ICV	ICV	03/31/21 8:38	II210317-1	2		1.95	mg/L	98	95	105			
WG516664ICB	ICB	03/31/21 8:45				U	mg/L		-0.06	0.06			
WG516664LFB	LFB	03/31/21 8:58	II210319-2	.50075		.476	mg/L	95	85	115			
L64932-02AS	AS	03/31/21 9:17	II210319-2	.50075	.054	.526	mg/L	94	85	115			
L64932-02ASD	ASD	03/31/21 9:20	II210319-2	.50075	.054	.537	mg/L	96	85	115	2	20	

Ouray Silver Mines

ACZ Project ID: **L64934**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L64934-01	WG516737	Beryllium, dissolved	M200.8 ICP-MS	IA	Internal standard recovery exceeded the acceptance limits. Concentration of associated target analyte(s) in the sample is < MDL.
	WG517257	Chloride	SM4500CI-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).
	WG516894	Cyanide, total	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).
	WG516680	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).
	WG516582	Residue, Non-Filterable (TSS) @105C	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
	WG516708	Sodium, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
L64934-02	WG516737	Beryllium, dissolved	M200.8 ICP-MS	IA	Internal standard recovery exceeded the acceptance limits. Concentration of associated target analyte(s) in the sample is < MDL.
	WG517257	Chloride	SM4500CI-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).
	WG516894	Cyanide, total	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).
	WG516680	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).
	WG516615	Residue, Non-Filterable (TSS) @105C	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
	WG516708	Sodium, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
L64934-03	WG517257	Chloride	SM4500CI-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).
	WG516894	Cyanide, total	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).
	WG516680	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).
	WG516615	Residue, Non-Filterable (TSS) @105C	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
	WG516708	Sodium, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.

Ouray Silver Mines

ACZ Project ID: **L64934**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L64934

Date Received: 03/25/2021 09:38

Received By:

Date Printed: 3/26/2021

Receipt Verification

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

Samples/Containers

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

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?

Ouray Silver Mines

ACZ Project ID: L64934

Date Received: 03/25/2021 09:38

Received By:

Date Printed: 3/26/2021

6823

3.8

<=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.

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).

April 13, 2021

Report to:

Briana Greer
Ouray Silver Mines
285 S. Madison Ave.

Louisville, CO 80027

cc: Accounts Payable, Chris Bolane

Bill to:

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

Project ID:

ACZ Project ID: L64966

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 26, 2021. This project has been assigned to ACZ's project number, L64966. Please reference this number in all future inquiries.

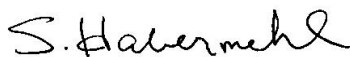
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L64966. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 May 13, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: GW-1B

ACZ Sample ID: **L64966-01**

Date Sampled: 03/25/21 09:10

Date Received: 03/26/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						04/02/21 19:03	bjp
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								04/01/21 11:43	md

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	03/30/21 14:27	kja
Antimony, dissolved	M200.8 ICP-MS	1	0.00072	B		mg/L	0.0004	0.002	03/31/21 17:26	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00044	B		mg/L	0.0002	0.001	03/31/21 17:26	bsu
Barium, dissolved	M200.7 ICP	1	0.0545			mg/L	0.007	0.035	03/30/21 14:27	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	03/31/21 17:26	bsu
Boron, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.1	03/30/21 14:27	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000133	B		mg/L	0.00005	0.00025	03/31/21 17:26	bsu
Calcium, dissolved	M200.7 ICP	1	36.3			mg/L	0.1	0.5	03/30/21 14:27	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	03/31/21 17:26	bsu
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	03/31/21 17:26	bsu
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	03/30/21 14:27	kja
Lead, dissolved	M200.8 ICP-MS	1	0.00020	B		mg/L	0.0001	0.0005	03/31/21 17:26	bsu
Magnesium, dissolved	M200.7 ICP	1	2.98			mg/L	0.2	1	03/30/21 14:27	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	03/30/21 14:27	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	03/30/21 9:38	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00102			mg/L	0.0002	0.0005	03/31/21 17:26	bsu
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	03/30/21 14:27	kja
Potassium, dissolved	M200.7 ICP	1	0.39	B		mg/L	0.2	1	03/30/21 14:27	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00036			mg/L	0.0001	0.00025	03/31/21 17:26	bsu
Silica, dissolved	M200.7 ICP	1	4.9			mg/L	0.2	1	03/30/21 14:27	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/31/21 17:26	bsu
Sodium, dissolved	M200.7 ICP	1	2.28			mg/L	0.2	1	03/30/21 14:27	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/31/21 17:26	bsu
Uranium, dissolved	M200.8 ICP-MS	1	0.00012	B		mg/L	0.0001	0.0005	03/31/21 17:26	bsu
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	03/30/21 14:27	kja
Zinc, dissolved	M200.7 ICP	1	0.068			mg/L	0.02	0.05	03/30/21 14:27	kja

Ouray Silver Mines

Project ID:

Sample ID: GW-1B

ACZ Sample ID: **L64966-01**

Date Sampled: 03/25/21 09:10

Date Received: 03/26/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	46.3			mg/L	2	20	04/01/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	04/01/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	04/01/21 0:00	eep
Total Alkalinity		1	46.3		*	mg/L	2	20	04/01/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			04/13/21 0:00	calc
Sum of Anions			2.2			meq/L			04/13/21 0:00	calc
Sum of Cations			2.2			meq/L			04/13/21 0:00	calc
Chloride	SM4500Cl-E	1	0.98	B	*	mg/L	0.5	2	04/12/21 11:29	ttg
Conductivity @25C	SM2510B	1	227			umhos/cm	1	10	03/30/21 3:19	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	04/03/21 0:16	pjb
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	04/06/21 18:51	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		103			mg/L	0.2	5	04/13/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.337			mg/L	0.02	0.1	04/03/21 3:23	pjb
pH (lab)	SM4500H+ B									
pH		1	8.0	H		units	0.1	0.1	04/01/21 0:00	eep
pH measured at		1	21.3			C	0.1	0.1	04/01/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	04/03/21 23:16	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	154			mg/L	20	40	03/31/21 14:47	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	03/31/21 11:39	scd
Sulfate	D516-02/-07/-11 - Turbidimetric	5	59.1		*	mg/L	5	25	04/07/21 19:54	wtc
TDS (calculated)	Calculation		137			mg/L			04/13/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.12						04/13/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: GW-2B

ACZ Sample ID: **L64966-02**

Date Sampled: 03/25/21 10:10

Date Received: 03/26/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						04/02/21 19:17	bjp
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								03/29/21 16:20	md

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	03/30/21 14:37	kja
Antimony, dissolved	M200.8 ICP-MS	1	0.00065	B		mg/L	0.0004	0.002	03/31/21 17:28	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	03/31/21 17:28	bsu
Barium, dissolved	M200.7 ICP	1	0.0676			mg/L	0.007	0.035	03/30/21 14:37	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	03/31/21 17:28	bsu
Boron, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.1	03/30/21 14:37	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000262			mg/L	0.00005	0.00025	03/31/21 17:28	bsu
Calcium, dissolved	M200.7 ICP	1	37.3			mg/L	0.1	0.5	03/30/21 14:37	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	03/31/21 17:28	bsu
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	03/31/21 17:28	bsu
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	03/30/21 14:37	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/31/21 17:28	bsu
Magnesium, dissolved	M200.7 ICP	1	2.99			mg/L	0.2	1	03/30/21 14:37	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	03/30/21 14:37	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	03/30/21 9:39	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00082			mg/L	0.0002	0.0005	03/31/21 17:28	bsu
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	03/30/21 14:37	kja
Potassium, dissolved	M200.7 ICP	1	0.52	B		mg/L	0.2	1	03/30/21 14:37	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00035			mg/L	0.0001	0.00025	03/31/21 17:28	bsu
Silica, dissolved	M200.7 ICP	1	5.0			mg/L	0.2	1	03/30/21 14:37	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/31/21 17:28	bsu
Sodium, dissolved	M200.7 ICP	1	2.25			mg/L	0.2	1	03/30/21 14:37	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/31/21 17:28	bsu
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/31/21 17:28	bsu
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	03/30/21 14:37	kja
Zinc, dissolved	M200.7 ICP	1	0.356			mg/L	0.02	0.05	03/30/21 14:37	kja

Ouray Silver Mines

Project ID:

Sample ID: GW-2B

ACZ Sample ID: **L64966-02**

Date Sampled: 03/25/21 10:10

Date Received: 03/26/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	29.2			mg/L	2	20	04/01/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	04/01/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	04/01/21 0:00	eep
Total Alkalinity		1	29.2		*	mg/L	2	20	04/01/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-2.2			%			04/13/21 0:00	calc
Sum of Anions			2.3			meq/L			04/13/21 0:00	calc
Sum of Cations			2.2			meq/L			04/13/21 0:00	calc
Chloride	SM4500Cl-E	1	0.93	B	*	mg/L	0.5	2	04/12/21 11:29	ttg
Conductivity @25C	SM2510B	1	235			umhos/cm	1	10	03/30/21 3:35	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	04/03/21 0:17	pjb
Fluoride	SM4500F-C	1	<0.15	U	*	mg/L	0.15	0.35	04/06/21 18:59	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		105			mg/L	0.2	5	04/13/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.094	B		mg/L	0.02	0.1	04/03/21 3:24	pjb
pH (lab)	SM4500H+ B									
pH		1	7.6	H		units	0.1	0.1	04/01/21 0:00	eep
pH measured at		1	21.4			C	0.1	0.1	04/01/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid	1	<0.01	U	*	mg/L	0.01	0.05	03/31/21 1:31	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	160			mg/L	20	40	03/31/21 14:49	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	03/31/21 11:42	scd
Sulfate	D516-02/-07/-11 - Turbidimetric	5	80.3		*	mg/L	5	25	04/07/21 19:54	wtc
TDS (calculated)	Calculation		149			mg/L			04/13/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.07						04/13/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: GW-00

ACZ Sample ID: **L64966-03**

Date Sampled: 03/25/21 13:00

Date Received: 03/26/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						04/02/21 19:31	bjp
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								03/29/21 16:25	md

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	03/30/21 14:40	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	03/31/21 17:30	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	03/31/21 17:30	bsu
Barium, dissolved	M200.7 ICP	1	<0.007	U		mg/L	0.007	0.035	03/30/21 14:40	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	03/31/21 17:30	bsu
Boron, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.1	03/30/21 14:40	kja
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	03/31/21 17:30	bsu
Calcium, dissolved	M200.7 ICP	1	0.87			mg/L	0.1	0.5	03/30/21 14:40	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	03/31/21 17:30	bsu
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	03/31/21 17:30	bsu
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	03/30/21 14:40	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/31/21 17:30	bsu
Magnesium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	03/30/21 14:40	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	03/30/21 14:40	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	03/30/21 9:40	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.0005	03/31/21 17:30	bsu
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	03/30/21 14:40	kja
Potassium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	03/30/21 14:40	kja
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	03/31/21 17:30	bsu
Silica, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	03/30/21 14:40	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/31/21 17:30	bsu
Sodium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	03/30/21 14:40	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/31/21 17:30	bsu
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	03/31/21 17:30	bsu
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	03/30/21 14:40	kja
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	03/30/21 14:40	kja

Ouray Silver Mines

Project ID:

Sample ID: GW-00

ACZ Sample ID: **L64966-03**

Date Sampled: 03/25/21 13:00

Date Received: 03/26/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	2.1	B		mg/L	2	20	04/01/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	04/01/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	04/01/21 0:00	eep
Total Alkalinity		1	2.1	B	*	mg/L	2	20	04/01/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			n/a			%			04/13/21 0:00	calc
Sum of Anions			<	U		meq/L			04/13/21 0:00	calc
Sum of Cations			<	U		meq/L			04/13/21 0:00	calc
Chloride	SM4500Cl-E	1	0.90	B	*	mg/L	0.5	2	04/12/21 11:29	ttg
Conductivity @25C	SM2510B	1	1	B		umhos/cm	1	10	03/30/21 3:42	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	04/03/21 0:18	pjb
Fluoride	SM4500F-C	1	<0.15	U	*	mg/L	0.15	0.35	04/06/21 19:22	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		2.2	B		mg/L	0.2	5	04/13/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U		mg/L	0.02	0.1	04/03/21 3:25	pjb
pH (lab)	SM4500H+ B									
pH		1	6.2	H		units	0.1	0.1	04/01/21 0:00	eep
pH measured at		1	21.6			C	0.1	0.1	04/01/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid	1	<0.01	U	*	mg/L	0.01	0.05	03/31/21 1:33	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	<20	U	*	mg/L	20	40	03/31/21 14:52	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	03/31/21 11:44	scd
Sulfate	D516-02/-07/-11 - Turbidimetric	1	<1	U	*	mg/L	1	5	04/07/21 19:47	wtc
TDS (calculated)	Calculation		3.05			mg/L			04/13/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		n/a						04/13/21 0:00	calc



Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L64966**

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
WG516764													
WG516764PBW1	PBW	03/31/21 20:50				U	mg/L		-20	20			
WG516764LCSW3	LCSW	03/31/21 21:10	WC210323-1	820.0001		781.9	mg/L	95	90	110			
WG516764LCSW6	LCSW	04/01/21 1:11	WC210323-1	820.0001		794.2	mg/L	97	90	110			
WG516764PBW2	PBW	04/01/21 1:18				4.4	mg/L		-20	20			
L64966-03DUP	DUP	04/01/21 2:45			2.1	2.1	mg/L				0	20	RA
WG516764LCSW9	LCSW	04/01/21 4:31	WC210323-1	820.0001		782.1	mg/L	95	90	110			
WG516764PBW3	PBW	04/01/21 4:38				3.5	mg/L		-20	20			
WG516764LCSW12	LCSW	04/01/21 8:05	WC210323-1	820.0001		791.5	mg/L	97	90	110			
WG516764PBW4	PBW	04/01/21 8:12				4.8	mg/L		-20	20			
WG516764LCSW15	LCSW	04/01/21 12:10	WC210323-1	820.0001		803.9	mg/L	98	90	110			

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516631													
WG516631ICV	ICV	03/30/21 12:50	II210317-1	2		1.923	mg/L	96	95	105			
WG516631ICB	ICB	03/30/21 12:56				U	mg/L		-0.15	0.15			
WG516631LFB	LFB	03/30/21 13:09	II210319-2	1.0013		.969	mg/L	97	85	115			
L64966-01AS	AS	03/30/21 14:30	II210319-2	1.0013	U	.976	mg/L	97	85	115			
L64966-01ASD	ASD	03/30/21 14:34	II210319-2	1.0013	U	.978	mg/L	98	85	115	0	20	

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516755													
WG516755ICV	ICV	03/31/21 16:36	MS210330-3	.0201		.0187	mg/L	93	90	110			
WG516755ICB	ICB	03/31/21 16:38				U	mg/L		-0.00088	0.00088			
WG516755LFB	LFB	03/31/21 16:39	MS210312-6	.01		.00967	mg/L	97	85	115			
L64964-02AS	AS	03/31/21 17:12	MS210312-6	.01	.00049	.00952	mg/L	90	70	130			
L64964-02ASD	ASD	03/31/21 17:14	MS210312-6	.01	.00049	.00899	mg/L	85	70	130	6	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516755													
WG516755ICV	ICV	03/31/21 16:36	MS210330-3	.05		.04908	mg/L	98	90	110			
WG516755ICB	ICB	03/31/21 16:38				U	mg/L		-0.00044	0.00044			
WG516755LFB	LFB	03/31/21 16:39	MS210312-6	.05005		.05138	mg/L	103	85	115			
L64964-02AS	AS	03/31/21 17:12	MS210312-6	.05005	.00238	.05445	mg/L	104	70	130			
L64964-02ASD	ASD	03/31/21 17:14	MS210312-6	.05005	.00238	.04844	mg/L	92	70	130	12	20	

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516631													
WG516631ICV	ICV	03/30/21 12:50	II210317-1	2		1.938	mg/L	97	95	105			
WG516631ICB	ICB	03/30/21 12:56				U	mg/L		-0.021	0.021			
WG516631LFB	LFB	03/30/21 13:09	II210319-2	.5		.4795	mg/L	96	85	115			
L64966-01AS	AS	03/30/21 14:30	II210319-2	.5	.0545	.529	mg/L	95	85	115			
L64966-01ASD	ASD	03/30/21 14:34	II210319-2	.5	.0545	.5437	mg/L	98	85	115	3	20	

Ouray Silver Mines

ACZ Project ID: **L64966**

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
WG516755													
WG516755ICV	ICV	03/31/21 16:36	MS210330-3	.05		.04759	mg/L	95	90	110			
WG516755ICB	ICB	03/31/21 16:38				.000083	mg/L		-0.000176	0.000176			
WG516755LFB	LFB	03/31/21 16:39	MS210312-6	.05005		.052058	mg/L	104	85	115			
L64964-02AS	AS	03/31/21 17:12	MS210312-6	.05005	U	.045357	mg/L	91	70	130			
L64964-02ASD	ASD	03/31/21 17:14	MS210312-6	.05005	U	.041512	mg/L	83	70	130	9	20	

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516631													
WG516631ICV	ICV	03/30/21 12:50	II210317-1	2		2.006	mg/L	100	95	105			
WG516631ICB	ICB	03/30/21 12:56				U	mg/L		-0.06	0.06			
WG516631LFB	LFB	03/30/21 13:09	II210319-2	.5005		.504	mg/L	101	85	115			
L64966-01AS	AS	03/30/21 14:30	II210319-2	.5005	U	.502	mg/L	100	85	115			
L64966-01ASD	ASD	03/30/21 14:34	II210319-2	.5005	U	.522	mg/L	104	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
WG516755													
WG516755ICV	ICV	03/31/21 16:36	MS210330-3	.05		.050041	mg/L	100	90	110			
WG516755ICB	ICB	03/31/21 16:38				U	mg/L		-0.00011	0.00011			
WG516755LFB	LFB	03/31/21 16:39	MS210312-6	.05005		.050626	mg/L	101	85	115			
L64964-02AS	AS	03/31/21 17:12	MS210312-6	.05005	U	.051577	mg/L	103	70	130			
L64964-02ASD	ASD	03/31/21 17:14	MS210312-6	.05005	U	.046954	mg/L	94	70	130	9	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516631													
WG516631ICV	ICV	03/30/21 12:50	II210317-1	100		97.71	mg/L	98	95	105			
WG516631ICB	ICB	03/30/21 12:56				U	mg/L		-0.3	0.3			
WG516631LFB	LFB	03/30/21 13:09	II210319-2	68.00934		67.17	mg/L	99	85	115			
L64966-01AS	AS	03/30/21 14:30	II210319-2	68.00934	36.3	104.1	mg/L	100	85	115			
L64966-01ASD	ASD	03/30/21 14:34	II210319-2	68.00934	36.3	103	mg/L	98	85	115	1	20	

Chloride

SM4500Cl-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517257													
WG517257ICB	ICB	04/12/21 10:13				.52	mg/L		-1.5	1.5			
WG517257ICV	ICV	04/12/21 10:13	WI210325-1	55.055		52.56	mg/L	95	90	110			
WG517257LFB1	LFB	04/12/21 11:20	WI200327-3	30.03		29.24	mg/L	97	90	110			
WG517257LFB2	LFB	04/12/21 11:24	WI200327-3	30.03		28.83	mg/L	96	90	110			
L64966-02AS	AS	04/12/21 11:29	WI200327-3	30.03	.93	29.37	mg/L	95	90	110			
L64966-03DUP	DUP	04/12/21 11:29			.9	.79	mg/L				13	20	RA

Ouray Silver Mines

ACZ Project ID: **L64966**

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
WG516755													
WG516755ICV	ICV	03/31/21 16:36	MS210330-3	.05		.04977	mg/L	100	90	110			
WG516755ICB	ICB	03/31/21 16:38				U	mg/L		-0.0011	0.0011			
WG516755LFB	LFB	03/31/21 16:39	MS210312-6	.05		.05057	mg/L	101	85	115			
L64964-02AS	AS	03/31/21 17:12	MS210312-6	.05	.0007	.05053	mg/L	100	70	130			
L64964-02ASD	ASD	03/31/21 17:14	MS210312-6	.05	.0007	.04515	mg/L	89	70	130	11	20	

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516594													
WG516594LCSW2	LCSW	03/29/21 16:07	PCN63122	1410		1439	umhos/cm	102	90	110			
WG516594LCSW5	LCSW	03/29/21 18:50	PCN63122	1410		1423	umhos/cm	101	90	110			
WG516594LCSW8	LCSW	03/29/21 22:09	PCN63122	1410		1402	umhos/cm	99	90	110			
WG516594LCSW11	LCSW	03/30/21 1:27	PCN63122	1410		1388	umhos/cm	98	90	110			
L64966-01DUP	DUP	03/30/21 3:28			227	226	umhos/cm				0	20	
L64976-04DUP	DUP	03/30/21 5:02			247	247	umhos/cm				0	20	
WG516594LCSW14	LCSW	03/30/21 5:08	PCN63122	1410		1379	umhos/cm	98	90	110			

Copper, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516755													
WG516755ICV	ICV	03/31/21 16:36	MS210330-3	.05		.05009	mg/L	100	90	110			
WG516755ICB	ICB	03/31/21 16:38				U	mg/L		-0.00176	0.00176			
WG516755LFB	LFB	03/31/21 16:39	MS210312-6	.05		.05066	mg/L	101	85	115			
L64964-02AS	AS	03/31/21 17:12	MS210312-6	.05	U	.04999	mg/L	100	70	130			
L64964-02ASD	ASD	03/31/21 17:14	MS210312-6	.05	U	.04434	mg/L	89	70	130	12	20	

Cyanide, total

M335.4 - Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516894													
WG516894ICV	ICV	04/02/21 23:52	WI210331-5	.3		.2798	mg/L	93	90	110			
WG516894ICB	ICB	04/02/21 23:53				U	mg/L		-0.003	0.003			
WG516867LRB	LRB	04/02/21 23:54				U	mg/L		-0.003	0.003			
WG516867LFB	LFB	04/02/21 23:55	WI210331-2	.2		.1997	mg/L	100	90	110			
L64963-04DUP	DUP	04/03/21 0:09			U	U	mg/L				0	20	RA
L64964-01LFM	LFM	04/03/21 0:11	WI210331-2	.2	U	.1955	mg/L	98	90	110			

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516991													
WG516991ICV	ICV	04/06/21 13:37	WC210325-4	2.002		1.96	mg/L	98	90	110			
WG516991ICB	ICB	04/06/21 13:45				U	mg/L		-0.3	0.3			
WG516991LFB1	LFB	04/06/21 13:52	WC201221-2	5.015		4.75	mg/L	95	90	110			
WG516991LFB2	LFB	04/06/21 17:11	WC201221-2	5.015		4.91	mg/L	98	90	110			
L64963-02AS	AS	04/06/21 17:27	WC201221-2	5.015	2.62	7.45	mg/L	96	90	110			
L64963-02ASD	ASD	04/06/21 17:35	WC201221-2	5.015	2.62	7.45	mg/L	96	90	110	0	20	
L64966-03AS	AS	04/06/21 19:30	WC201221-2	5.015	U	4.11	mg/L	82	90	110			M2
L64966-03ASD	ASD	04/06/21 19:38	WC201221-2	5.015	U	3.87	mg/L	77	90	110	6	20	M2

Ouray Silver Mines

ACZ Project ID: **L64966**

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
WG516631													
WG516631ICV	ICV	03/30/21 12:50	II210317-1	2		1.916	mg/L	96	95	105			
WG516631ICB	ICB	03/30/21 12:56				U	mg/L		-0.18	0.18			
WG516631LFB	LFB	03/30/21 13:09	II210319-2	1.0018		.972	mg/L	97	85	115			
L64966-01AS	AS	03/30/21 14:30	II210319-2	1.0018	U	.966	mg/L	96	85	115			
L64966-01ASD	ASD	03/30/21 14:34	II210319-2	1.0018	U	.989	mg/L	99	85	115	2	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516755													
WG516755ICV	ICV	03/31/21 16:36	MS210330-3	.05		.04949	mg/L	99	90	110			
WG516755ICB	ICB	03/31/21 16:38				U	mg/L		-0.00022	0.00022			
WG516755LFB	LFB	03/31/21 16:39	MS210312-6	.05005		.05109	mg/L	102	85	115			
L64964-02AS	AS	03/31/21 17:12	MS210312-6	.05005	.00026	.05203	mg/L	103	70	130			
L64964-02ASD	ASD	03/31/21 17:14	MS210312-6	.05005	.00026	.04712	mg/L	94	70	130	10	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516631													
WG516631ICV	ICV	03/30/21 12:50	II210317-1	100		97.68	mg/L	98	95	105			
WG516631ICB	ICB	03/30/21 12:56				U	mg/L		-0.6	0.6			
WG516631LFB	LFB	03/30/21 13:09	II210319-2	50.00226		48.76	mg/L	98	85	115			
L64966-01AS	AS	03/30/21 14:30	II210319-2	50.00226	2.98	52.83	mg/L	100	85	115			
L64966-01ASD	ASD	03/30/21 14:34	II210319-2	50.00226	2.98	52.56	mg/L	99	85	115	1	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516631													
WG516631ICV	ICV	03/30/21 12:50	II210317-1	2		1.941	mg/L	97	95	105			
WG516631ICB	ICB	03/30/21 12:56				U	mg/L		-0.03	0.03			
WG516631LFB	LFB	03/30/21 13:09	II210319-2	.5005		.469	mg/L	94	85	115			
L64966-01AS	AS	03/30/21 14:30	II210319-2	.5005	U	.465	mg/L	93	85	115			
L64966-01ASD	ASD	03/30/21 14:34	II210319-2	.5005	U	.479	mg/L	96	85	115	3	20	

Mercury, dissolved

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516585													
WG516585ICV1	ICV	03/30/21 8:34	HG210329-2	.00501		.005	mg/L	100	95	105			
WG516585ICB	ICB	03/30/21 8:35				U	mg/L		-0.0002	0.0002			
WG516586													
WG516586LRB	LRB	03/30/21 9:13				U	mg/L		-0.00044	0.00044			
WG516586LFB	LFB	03/30/21 9:14	HG210326-3	.002002		.00194	mg/L	97	85	115			
L64962-01LFM	LFM	03/30/21 9:20	HG210326-3	.002002	U	.00208	mg/L	104	85	115			
L64962-01LFMD	LFMD	03/30/21 9:23	HG210326-3	.002002	U	.00189	mg/L	94	85	115	10	20	

Ouray Silver Mines

ACZ Project ID: **L64966**

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.

Molybdenum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516755													
WG516755ICV	ICV	03/31/21 16:36	MS210330-3	.01992		.01859	mg/L	93	90	110			
WG516755ICB	ICB	03/31/21 16:38				U	mg/L		-0.00044	0.00044			
WG516755LFB	LFB	03/31/21 16:39	MS210312-6	.0501		.0502	mg/L	100	85	115			
L64964-02AS	AS	03/31/21 17:12	MS210312-6	.0501	U	.0518	mg/L	103	70	130			
L64964-02ASD	ASD	03/31/21 17:14	MS210312-6	.0501	U	.047	mg/L	94	70	130	10	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516631													
WG516631ICV	ICV	03/30/21 12:50	II210317-1	2		1.9498	mg/L	97	95	105			
WG516631ICB	ICB	03/30/21 12:56				U	mg/L		-0.024	0.024			
WG516631LFB	LFB	03/30/21 13:09	II210319-2	.502		.4817	mg/L	96	85	115			
L64966-01AS	AS	03/30/21 14:30	II210319-2	.502	U	.4726	mg/L	94	85	115			
L64966-01ASD	ASD	03/30/21 14:34	II210319-2	.502	U	.4925	mg/L	98	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
WG516897													
WG516897ICV	ICV	04/03/21 2:46	WI210302-17	2.416		2.272	mg/L	94	90	110			
WG516897ICB	ICB	04/03/21 2:47				U	mg/L		-0.02	0.02			
L64956-01AS	AS	04/03/21 3:12	WI210331-13	60	20.3	81.294	mg/L	102	90	110			
L64956-04DUP	DUP	04/03/21 3:15			1.62	1.619	mg/L				0	20	
WG516897LFB	LFB	04/03/21 3:28	WI210331-13	2		1.943	mg/L	97	90	110			

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516764													
WG516764LCSW1	LCSW	03/31/21 20:55	PCN61687	6		5.9	units	98	5.9	6.1			
WG516764LCSW4	LCSW	04/01/21 0:56	PCN61687	6		6.1	units	102	5.9	6.1			
L64966-03DUP	DUP	04/01/21 2:45			6.2	6.1	units				2	20	
WG516764LCSW7	LCSW	04/01/21 4:18	PCN61687	6		6.1	units	102	5.9	6.1			
WG516764LCSW13	LCSW	04/01/21 11:56	PCN61687	6		6.1	units	102	5.9	6.1			

Ouray Silver Mines

ACZ Project ID: **L64966**

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.

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

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516679													
WG516679ICV	ICV	03/30/21 23:02	WI210224-6	.65228		.674	mg/L	103	90	110			
WG516679ICB	ICB	03/30/21 23:05				U	mg/L		-0.01	0.01			
WG516680													
WG516592LRB	LRB	03/31/21 1:00				U	mg/L		-0.01	0.01			
WG516592LFB	LFB	03/31/21 1:01	WI210316-2	.5		.501	mg/L	100	90	110			
L64958-03LFM	LFM	03/31/21 1:19	WI210316-2	.5	.021	.546	mg/L	105	90	110			
L64958-04DUP	DUP	03/31/21 1:21			U	U	mg/L				0	20	RA
WG516908													
WG516908ICV	ICV	04/03/21 22:58	WI210401-1	.65228		.683	mg/L	105	90	110			
WG516908ICB	ICB	04/03/21 23:01				U	mg/L		-0.01	0.01			
WG516781LRB	LRB	04/03/21 23:02				U	mg/L		-0.01	0.01			
WG516781LFB	LFB	04/03/21 23:03	WI210331-02	.5		.505	mg/L	101	90	110			
L64958-02LFM	LFM	04/03/21 23:05	WI210331-02	.5	.018	.517	mg/L	100	90	110			
L64962-02DUP	DUP	04/03/21 23:07			.065	.051	mg/L				24	20	RA

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516631													
WG516631ICV	ICV	03/30/21 12:50	II210317-1	20		19.54	mg/L	98	95	105			
WG516631ICB	ICB	03/30/21 12:56				U	mg/L		-0.6	0.6			
WG516631LFB	LFB	03/30/21 13:09	II210319-2	99.97791		98.04	mg/L	98	85	115			
L64966-01AS	AS	03/30/21 14:30	II210319-2	99.97791	.39	101	mg/L	101	85	115			
L64966-01ASD	ASD	03/30/21 14:34	II210319-2	99.97791	.39	100.6	mg/L	100	85	115	0	20	

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516743													
WG516743PBW	PBW	03/31/21 14:00				U	mg/L		-20	20			
WG516743LCSW	LCSW	03/31/21 14:02	PCN62903	1000		998	mg/L	100	80	120			
L64974-01DUP	DUP	03/31/21 15:00			1670	1668	mg/L				0	10	

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

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516717													
WG516717PBW	PBW	03/31/21 11:20				U	mg/L		-2	2			
WG516717LCSW	LCSW	03/31/21 11:21	PCN62903	100		104	mg/L	104	80	120			
L64966-01DUP	DUP	03/31/21 11:40			U	U	mg/L				0	10	RA
L64976-02DUP	DUP	03/31/21 11:51			U	U	mg/L				0	10	RA

Ouray Silver Mines

ACZ Project ID: **L64966**

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
WG516755													
WG516755ICV	ICV	03/31/21 16:36	MS210330-3	.05		.04852	mg/L	97	90	110			
WG516755ICB	ICB	03/31/21 16:38				.00013	mg/L		-0.00022	0.00022			
WG516755LFB	LFB	03/31/21 16:39	MS210312-6	.05		.04916	mg/L	98	85	115			
L64964-02AS	AS	03/31/21 17:12	MS210312-6	.05	U	.0501	mg/L	100	70	130			
L64964-02ASD	ASD	03/31/21 17:14	MS210312-6	.05	U	.04424	mg/L	88	70	130	12	20	

Silica, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516631													
WG516631ICV	ICV	03/30/21 12:50	II210317-1	42.8		42.28	mg/L	99	95	105			
WG516631ICB	ICB	03/30/21 12:56				U	mg/L		-0.6	0.6			
WG516631LFB	LFB	03/30/21 13:09	II210319-2	21.415		21.53	mg/L	101	85	115			
L64966-01AS	AS	03/30/21 14:30	II210319-2	21.415	4.9	26.31	mg/L	100	85	115			
L64966-01ASD	ASD	03/30/21 14:34	II210319-2	21.415	4.9	27.09	mg/L	104	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
WG516755													
WG516755ICV	ICV	03/31/21 16:36	MS210330-3	.02004		.02044	mg/L	102	90	110			
WG516755ICB	ICB	03/31/21 16:38				.0001	mg/L		-0.00022	0.00022			
WG516755LFB	LFB	03/31/21 16:39	MS210312-6	.01002		.01037	mg/L	103	85	115			
L64964-02AS	AS	03/31/21 17:12	MS210312-6	.01002	U	.0104	mg/L	104	70	130			
L64964-02ASD	ASD	03/31/21 17:14	MS210312-6	.01002	U	.00977	mg/L	98	70	130	6	20	

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516631													
WG516631ICV	ICV	03/30/21 12:50	II210317-1	100		96.69	mg/L	97	95	105			
WG516631ICB	ICB	03/30/21 12:56				U	mg/L		-0.6	0.6			
WG516631LFB	LFB	03/30/21 13:09	II210319-2	100.0235		96.72	mg/L	97	85	115			
L64966-01AS	AS	03/30/21 14:30	II210319-2	100.0235	2.28	101.1	mg/L	99	85	115			
L64966-01ASD	ASD	03/30/21 14:34	II210319-2	100.0235	2.28	101	mg/L	99	85	115	0	20	

Sulfate

D516-02/-07/-11 - Turbidimetric

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517049													
WG517049ICB	ICB	04/07/21 19:35				U	mg/L		-3	3			
WG517049ICV	ICV	04/07/21 19:35	WI210331-8	20		19.6	mg/L	98	90	110			
WG517049LFB	LFB	04/07/21 19:45	WI210105-3	10		10.6	mg/L	106	90	110			
L64947-02DUP	DUP	04/07/21 19:53			150	153.2	mg/L				2	20	
L64956-02AS	AS	04/07/21 20:05	SO4TURB10X	10	194	210.1	mg/L	161	90	110			M3

Ouray Silver Mines

ACZ Project ID: **L64966**

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
WG516755													
WG516755ICV	ICV	03/31/21 16:36	MS210330-3	.05		.04764	mg/L	95	90	110			
WG516755ICB	ICB	03/31/21 16:38				U	mg/L		-0.00022	0.00022			
WG516755LFB	LFB	03/31/21 16:39	MS210312-6	.05		.0478	mg/L	96	85	115			
L64964-02AS	AS	03/31/21 17:12	MS210312-6	.05	U	.04836	mg/L	97	70	130			
L64964-02ASD	ASD	03/31/21 17:14	MS210312-6	.05	U	.04367	mg/L	87	70	130	10	20	

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516755													
WG516755ICV	ICV	03/31/21 16:36	MS210330-3	.05		.04867	mg/L	97	90	110			
WG516755ICB	ICB	03/31/21 16:38				U	mg/L		-0.00022	0.00022			
WG516755LFB	LFB	03/31/21 16:39	MS210312-6	.05		.05014	mg/L	100	85	115			
L64964-02AS	AS	03/31/21 17:12	MS210312-6	.05	U	.05108	mg/L	102	70	130			
L64964-02ASD	ASD	03/31/21 17:14	MS210312-6	.05	U	.04591	mg/L	92	70	130	11	20	

Vanadium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516631													
WG516631ICV	ICV	03/30/21 12:50	II210317-1	2		1.929	mg/L	96	95	105			
WG516631ICB	ICB	03/30/21 12:56				U	mg/L		-0.015	0.015			
WG516631LFB	LFB	03/30/21 13:09	II210319-2	.5005		.4881	mg/L	98	85	115			
L64966-01AS	AS	03/30/21 14:30	II210319-2	.5005	U	.4982	mg/L	100	85	115			
L64966-01ASD	ASD	03/30/21 14:34	II210319-2	.5005	U	.496	mg/L	99	85	115	0	20	

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516631													
WG516631ICV	ICV	03/30/21 12:50	II210317-1	2		1.947	mg/L	97	95	105			
WG516631ICB	ICB	03/30/21 12:56				U	mg/L		-0.06	0.06			
WG516631LFB	LFB	03/30/21 13:09	II210319-2	.50075		.48	mg/L	96	85	115			
L64966-01AS	AS	03/30/21 14:30	II210319-2	.50075	.068	.558	mg/L	98	85	115			
L64966-01ASD	ASD	03/30/21 14:34	II210319-2	.50075	.068	.559	mg/L	98	85	115	0	20	

Ouray Silver Mines

ACZ Project ID: **L64966**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L64966-01	WG517257	Chloride	SM4500CI-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).
	WG516894	Cyanide, total	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).
	WG516908	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).
	WG516717	Residue, Non-Filterable (TSS) @105C	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
	WG517049	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.
	WG516764	Total Alkalinity	SM2320B - Titration	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).
L64966-02	WG517257	Chloride	SM4500CI-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).
	WG516894	Cyanide, total	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).
	WG516991	Fluoride	SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG516680	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).
	WG516717	Residue, Non-Filterable (TSS) @105C	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
	WG517049	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.
	WG516764	Total Alkalinity	SM2320B - Titration	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).

Ouray Silver Mines

ACZ Project ID: **L64966**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L64966-03	WG517257	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).
	WG516894	Cyanide, total	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).
	WG516991	Fluoride	SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG516680	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).
	WG516743	Residue, Filterable (TDS) @180C	SM2540C	Z3	Sample volume yielded a residue less than 2.5 mg
	WG516717	Residue, Non-Filterable (TSS) @105C	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
	WG517049	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.
	WG516764	Total Alkalinity	SM2320B - Titration	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).

Ouray Silver Mines

ACZ Project ID: **L64966**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L64966

Date Received: 03/26/2021 10:00

Received By:

Date Printed: 3/29/2021

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		
A change was made in the Sample ID: Date:Time Line 1 section prior to ACZ custody.			
A change was made in the Sample ID: Date:Time Line 1 section prior to ACZ custody.			
A change was made in the Sample ID: Date:Time Line 1 section prior to ACZ custody.			
A change was made in the Sample ID: Date:Time Line 1 section prior to ACZ custody.			

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

Sample ID, date, and time were entered per container for sample #3. Only samples GW-1B, GW-2B, and GW-00 were logged in per client request.

Client Contact Remarks

Shipping Containers

Ouray Silver Mines

ACZ Project ID: L64966

Date Received: 03/26/2021 10:00

Received By:

Date Printed: 3/29/2021

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
-----	-----	-----	-----	-----
4300	5.1	<=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.

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).

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

Report to:

Name: <i>Brian Green</i>		Address:
Company: <i>Solid Solutions Geosciences</i>		
E-mail: <i>brian@SolidSolutionsgeosciences.ca</i>		Telephone:

Copy of Report to:

Name: <i>Chris Bolone</i>	E-mail:
Company: <i>Paralel Computer Systems</i>	Telephone:

Invoice to:

Name: Ashlee Briggs		Address:
Company: Cira Silver Miles		
E-mail: abriggs@cira.silvermiles.com		Telephone:

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	
NO	

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

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

Sampler's Name: Chris Sampler's Site Information State CO Zip code 81427 Time Zone mt

*Sampler's Signature: C. [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

ANALYSES REQUESTED (attach list or use quote number)

[illegible]

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

REMARKS

* only bq 1B, 2B, 00 (blank) per CB 3/26/21

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

RELINQUISHED BY:

DATE:TIME

RECEIVED BY:

DATE:TIME

Chris	3/25 1430	CPS	3/25 1430
			3/26/21 10:00

April 19, 2021

Report to:

Briana Greer
Ouray Silver Mines
285 S. Madison Ave.

Louisville, CO 80027

cc: Accounts Payable, Chris Bolane

Bill to:

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

Project ID:

ACZ Project ID: L65001

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 30, 2021. This project has been assigned to ACZ's project number, L65001. Please reference this number in all future inquiries.

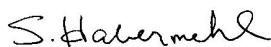
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L65001. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 May 19, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: GW-2A

ACZ Sample ID: **L65001-01**

Date Sampled: 03/29/21 09:45

Date Received: 03/30/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						04/05/21 11:36	bjp
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								04/07/21 13:25	bjp

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	04/05/21 14:46	jlw
Antimony, dissolved	M200.8 ICP-MS	1	0.00072	B		mg/L	0.0004	0.002	04/08/21 17:52	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00025	B		mg/L	0.0002	0.001	04/05/21 14:28	mfm
Barium, dissolved	M200.7 ICP	1	0.0626			mg/L	0.007	0.035	04/05/21 14:46	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	04/05/21 14:28	mfm
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	04/05/21 14:46	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	0.000699			mg/L	0.00005	0.00025	04/05/21 14:28	mfm
Calcium, dissolved	M200.7 ICP	1	37.7			mg/L	0.1	0.5	04/05/21 14:46	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	04/05/21 14:28	mfm
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	04/05/21 14:28	mfm
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	04/05/21 14:46	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.00018	B		mg/L	0.0001	0.0005	04/05/21 14:28	mfm
Magnesium, dissolved	M200.7 ICP	1	2.92			mg/L	0.2	1	04/05/21 14:46	jlw
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	04/05/21 14:46	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	04/05/21 12:09	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00109			mg/L	0.0002	0.0005	04/05/21 14:28	mfm
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	04/05/21 14:46	jlw
Potassium, dissolved	M200.7 ICP	1	0.44	B		mg/L	0.2	1	04/05/21 14:46	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00037			mg/L	0.0001	0.00025	04/05/21 14:28	mfm
Silica, dissolved	M200.7 ICP	1	4.6			mg/L	0.2	1	04/05/21 14:46	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	04/05/21 14:28	mfm
Sodium, dissolved	M200.7 ICP	1	2.31			mg/L	0.2	1	04/05/21 14:46	jlw
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	04/05/21 14:28	mfm
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	04/05/21 14:28	mfm
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	04/05/21 14:46	jlw
Zinc, dissolved	M200.7 ICP	1	0.552			mg/L	0.02	0.05	04/05/21 14:46	jlw

Ouray Silver Mines

Project ID:

Sample ID: GW-2A

ACZ Sample ID: **L65001-01**

Date Sampled: 03/29/21 09:45

Date Received: 03/30/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	<2	U		mg/L	2	20	04/03/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	04/03/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	04/03/21 0:00	eep
Total Alkalinity		1	<2	U		mg/L	2	20	04/03/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			12.2			%			04/19/21 0:00	calc
Sum of Anions			1.8			meq/L			04/19/21 0:00	calc
Sum of Cations			2.3			meq/L			04/19/21 0:00	calc
Chloride	SM4500Cl-E	1	1.18	B	*	mg/L	0.5	2	04/12/21 15:29	syw
Conductivity @25C	SM2510B	1	268			umhos/cm	1	10	04/01/21 7:02	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	04/06/21 16:17	bjp
Fluoride	SM4500F-C	1	0.27	B		mg/L	0.15	0.35	04/08/21 16:07	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		106			mg/L	0.2	5	04/19/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.125			mg/L	0.02	0.1	04/09/21 0:36	pjb
pH (lab)	SM4500H+ B									
pH		1	4.0	H		units	0.1	0.1	04/03/21 0:00	eep
pH measured at		1	22.0			C	0.1	0.1	04/03/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.024	B	*	mg/L	0.01	0.05	04/09/21 23:11	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	164			mg/L	20	40	03/31/21 20:33	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	7.0	B	*	mg/L	5	20	04/02/21 15:30	eep
Sulfate	D516-02/-07/-11 - Turbidimetric	5	83.1			mg/L	5	25	04/16/21 9:43	syw
TDS (calculated)	Calculation		134			mg/L			04/19/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.22						04/19/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: GW-3R

ACZ Sample ID: **L65001-02**

Date Sampled: 03/29/21 10:30

Date Received: 03/30/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						04/05/21 11:47	bjp
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								04/07/21 13:46	bjp

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	04/05/21 14:56	jlw
Antimony, dissolved	M200.8 ICP-MS	1	0.00080	B		mg/L	0.0004	0.002	04/08/21 17:54	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00050	B		mg/L	0.0002	0.001	04/05/21 14:30	mfm
Barium, dissolved	M200.7 ICP	1	0.0419			mg/L	0.007	0.035	04/05/21 14:56	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	04/05/21 14:30	mfm
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	04/05/21 14:56	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	0.000402			mg/L	0.00005	0.00025	04/05/21 14:30	mfm
Calcium, dissolved	M200.7 ICP	1	38.9			mg/L	0.1	0.5	04/05/21 14:56	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	04/05/21 14:30	mfm
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	04/05/21 14:30	mfm
Iron, dissolved	M200.7 ICP	1	0.060	B		mg/L	0.06	0.15	04/05/21 14:56	jlw
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	04/05/21 14:30	mfm
Magnesium, dissolved	M200.7 ICP	1	2.14			mg/L	0.2	1	04/05/21 14:56	jlw
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	04/05/21 14:56	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	04/05/21 12:10	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00057			mg/L	0.0002	0.0005	04/05/21 14:30	mfm
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	04/05/21 14:56	jlw
Potassium, dissolved	M200.7 ICP	1	0.33	B		mg/L	0.2	1	04/05/21 14:56	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00035			mg/L	0.0001	0.00025	04/05/21 14:30	mfm
Silica, dissolved	M200.7 ICP	1	5.5			mg/L	0.2	1	04/05/21 14:56	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	04/05/21 14:30	mfm
Sodium, dissolved	M200.7 ICP	1	2.41			mg/L	0.2	1	04/05/21 14:56	jlw
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	04/05/21 14:30	mfm
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	04/05/21 14:30	mfm
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	04/05/21 14:56	jlw
Zinc, dissolved	M200.7 ICP	1	0.225			mg/L	0.02	0.05	04/05/21 14:56	jlw

Ouray Silver Mines

Project ID:

Sample ID: GW-3R

ACZ Sample ID: **L65001-02**

Date Sampled: 03/29/21 10:30

Date Received: 03/30/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	23.7			mg/L	2	20	04/03/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	04/03/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	04/03/21 0:00	eep
Total Alkalinity		1	23.7			mg/L	2	20	04/03/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			2.2			%			04/19/21 0:00	calc
Sum of Anions			2.2			meq/L			04/19/21 0:00	calc
Sum of Cations			2.3			meq/L			04/19/21 0:00	calc
Chloride	SM4500Cl-E	1	0.90	B	*	mg/L	0.5	2	04/12/21 15:29	syw
Conductivity @25C	SM2510B	1	251			umhos/cm	1	10	04/01/21 7:10	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	04/06/21 16:18	bjp
Fluoride	SM4500F-C	1	0.15	B		mg/L	0.15	0.35	04/08/21 16:15	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		106			mg/L	0.2	5	04/19/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.165			mg/L	0.02	0.1	04/09/21 0:37	pjb
pH (lab)	SM4500H+ B									
pH		1	7.3	H		units	0.1	0.1	04/03/21 0:00	eep
pH measured at		1	22.0			C	0.1	0.1	04/03/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	04/09/21 23:13	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	162			mg/L	20	40	03/31/21 20:36	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	04/02/21 15:32	eep
Sulfate	D516-02/-07/-11 - Turbidimetric	5	81.7			mg/L	5	25	04/16/21 9:43	syw
TDS (calculated)	Calculation		148			mg/L			04/19/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.09						04/19/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: GW-99

ACZ Sample ID: **L65001-03**

Date Sampled: 03/29/21 10:30

Date Received: 03/30/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						04/05/21 11:59	bjp
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								04/07/21 14:06	bjp

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	04/05/21 14:59	jlw
Antimony, dissolved	M200.8 ICP-MS	1	0.00081	B		mg/L	0.0004	0.002	04/08/21 17:56	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00047	B		mg/L	0.0002	0.001	04/05/21 14:36	mfm
Barium, dissolved	M200.7 ICP	1	0.0421			mg/L	0.007	0.035	04/05/21 14:59	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	04/05/21 14:36	mfm
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	04/05/21 14:59	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	0.000415			mg/L	0.00005	0.00025	04/05/21 14:36	mfm
Calcium, dissolved	M200.7 ICP	1	38.8			mg/L	0.1	0.5	04/05/21 14:59	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	04/05/21 14:36	mfm
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	04/05/21 14:36	mfm
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	04/05/21 14:59	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.00010	B		mg/L	0.0001	0.0005	04/05/21 14:36	mfm
Magnesium, dissolved	M200.7 ICP	1	2.13			mg/L	0.2	1	04/05/21 14:59	jlw
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	04/05/21 14:59	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	04/05/21 12:11	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00071			mg/L	0.0002	0.0005	04/05/21 14:36	mfm
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	04/05/21 14:59	jlw
Potassium, dissolved	M200.7 ICP	1	0.33	B		mg/L	0.2	1	04/05/21 14:59	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00041			mg/L	0.0001	0.00025	04/05/21 14:36	mfm
Silica, dissolved	M200.7 ICP	1	5.6			mg/L	0.2	1	04/05/21 14:59	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	04/05/21 14:36	mfm
Sodium, dissolved	M200.7 ICP	1	2.39			mg/L	0.2	1	04/05/21 14:59	jlw
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	04/05/21 14:36	mfm
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	04/05/21 14:36	mfm
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	04/05/21 14:59	jlw
Zinc, dissolved	M200.7 ICP	1	0.224			mg/L	0.02	0.05	04/05/21 14:59	jlw

Ouray Silver Mines

Project ID:

Sample ID: GW-99

ACZ Sample ID: **L65001-03**

Date Sampled: 03/29/21 10:30

Date Received: 03/30/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	29.0			mg/L	2	20	04/03/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	04/03/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	04/03/21 0:00	eep
Total Alkalinity		1	29.0			mg/L	2	20	04/03/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-2.2			%			04/19/21 0:00	calc
Sum of Anions			2.3			meq/L			04/19/21 0:00	calc
Sum of Cations			2.2			meq/L			04/19/21 0:00	calc
Chloride	SM4500Cl-E	1	1.11	B	*	mg/L	0.5	2	04/12/21 15:31	syw
Conductivity @25C	SM2510B	1	250			umhos/cm	1	10	04/01/21 7:17	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	04/06/21 16:19	bjp
Fluoride	SM4500F-C	1	0.16	B		mg/L	0.15	0.35	04/08/21 16:31	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		106			mg/L	0.2	5	04/19/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.166			mg/L	0.02	0.1	04/09/21 0:39	pjb
pH (lab)	SM4500H+ B									
pH		1	7.6	H		units	0.1	0.1	04/03/21 0:00	eep
pH measured at		1	21.5			C	0.1	0.1	04/03/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	04/09/21 23:16	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	162			mg/L	20	40	03/31/21 20:38	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	04/02/21 15:33	eep
Sulfate	D516-02/-07/-11 - Turbidimetric	5	81.1			mg/L	5	25	04/16/21 9:44	syw
TDS (calculated)	Calculation		151			mg/L			04/19/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.07						04/19/21 0:00	calc



Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L65001**

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
WG516900													
WG516900PBW	PBW	04/03/21 11:57				15.9	mg/L		-20	20			
WG516900LCSW2	LCSW	04/03/21 12:14	WC210403-1	820.0001		833.2	mg/L	102	90	110			
L65018-01DUP	DUP	04/03/21 15:14			140	152.8	mg/L				9	20	

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516941													
WG516941ICV	ICV	04/05/21 13:58	II210317-1	2		1.906	mg/L	95	95	105			
WG516941ICB	ICB	04/05/21 14:04				U	mg/L		-0.15	0.15			
WG516941LFB	LFB	04/05/21 14:17	II210401-2	1.0013		.99	mg/L	99	85	115			
L64997-02AS	AS	04/05/21 14:27	II210401-2	1.0013	U	1.003	mg/L	100	85	115			
L64997-02ASD	ASD	04/05/21 14:30	II210401-2	1.0013	U	.959	mg/L	96	85	115	4	20	

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517165													
WG517165ICV	ICV	04/08/21 17:19	MS210330-3	.0201		.01941	mg/L	97	90	110			
WG517165ICB	ICB	04/08/21 17:21				U	mg/L		-0.00088	0.00088			
WG517165LFB	LFB	04/08/21 17:22	MS210312-6	.01		.00893	mg/L	89	85	115			
L65099-03AS	AS	04/08/21 18:10	MS210312-6	.01	U	.00897	mg/L	90	70	130			
L65099-03ASD	ASD	04/08/21 18:12	MS210312-6	.01	U	.00886	mg/L	89	70	130	1	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516950													
WG516950ICV	ICV	04/05/21 13:54	MS210330-3	.05		.04853	mg/L	97	90	110			
WG516950ICB	ICB	04/05/21 13:56				U	mg/L		-0.00044	0.00044			
WG516950LFB	LFB	04/05/21 13:58	MS210312-6	.05005		.04952	mg/L	99	85	115			
L65001-02AS	AS	04/05/21 14:32	MS210312-6	.05005	.0005	.05337	mg/L	106	70	130			
L65001-02ASD	ASD	04/05/21 14:34	MS210312-6	.05005	.0005	.04563	mg/L	90	70	130	16	20	

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516941													
WG516941ICV	ICV	04/05/21 13:58	II210317-1	2		1.921	mg/L	96	95	105			
WG516941ICB	ICB	04/05/21 14:04				U	mg/L		-0.021	0.021			
WG516941LFB	LFB	04/05/21 14:17	II210401-2	.5		.5057	mg/L	101	85	115			
L64997-02AS	AS	04/05/21 14:27	II210401-2	.5	.0696	.562	mg/L	98	85	115			
L64997-02ASD	ASD	04/05/21 14:30	II210401-2	.5	.0696	.5429	mg/L	95	85	115	3	20	

Ouray Silver Mines

ACZ Project ID: **L65001**

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
WG516950													
WG516950ICV	ICV	04/05/21 13:54	MS210330-3	.05		.047966	mg/L	96	90	110			
WG516950ICB	ICB	04/05/21 13:56				U	mg/L		-0.000176	0.000176			
WG516950LFB	LFB	04/05/21 13:58	MS210312-6	.05005		.049291	mg/L	98	85	115			
L65001-02AS	AS	04/05/21 14:32	MS210312-6	.05005	U	.052782	mg/L	105	70	130			
L65001-02ASD	ASD	04/05/21 14:34	MS210312-6	.05005	U	.046006	mg/L	92	70	130	14	20	

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516941													
WG516941ICV	ICV	04/05/21 13:58	II210317-1	2		1.973	mg/L	99	95	105			
WG516941ICB	ICB	04/05/21 14:04				U	mg/L		-0.06	0.06			
WG516941LFB	LFB	04/05/21 14:17	II210401-2	.5005		.514	mg/L	103	85	115			
L64997-02AS	AS	04/05/21 14:27	II210401-2	.5005	U	.535	mg/L	107	85	115			
L64997-02ASD	ASD	04/05/21 14:30	II210401-2	.5005	U	.511	mg/L	102	85	115	5	20	

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516950													
WG516950ICV	ICV	04/05/21 13:54	MS210330-3	.05		.051973	mg/L	104	90	110			
WG516950ICB	ICB	04/05/21 13:56				U	mg/L		-0.00011	0.00011			
WG516950LFB	LFB	04/05/21 13:58	MS210312-6	.05005		.051334	mg/L	103	85	115			
L65001-02AS	AS	04/05/21 14:32	MS210312-6	.05005	.000402	.052606	mg/L	104	70	130			
L65001-02ASD	ASD	04/05/21 14:34	MS210312-6	.05005	.000402	.045832	mg/L	91	70	130	14	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516941													
WG516941ICV	ICV	04/05/21 13:58	II210317-1	100		96.74	mg/L	97	95	105			
WG516941ICB	ICB	04/05/21 14:04				U	mg/L		-0.3	0.3			
WG516941LFB	LFB	04/05/21 14:17	II210401-2	68.00934		69.58	mg/L	102	85	115			
L64997-02AS	AS	04/05/21 14:27	II210401-2	68.00934	95.6	161.4	mg/L	97	85	115			
L64997-02ASD	ASD	04/05/21 14:30	II210401-2	68.00934	95.6	155.5	mg/L	88	85	115	4	20	

Chloride

SM4500Cl-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517317													
WG517317ICB	ICB	04/12/21 10:13				.52	mg/L		-1.5	1.5			
WG517317ICV	ICV	04/12/21 10:13	WI210325-1	55.055		52.56	mg/L	95	90	110			
WG517317LFB1	LFB	04/12/21 15:27	WI200327-3	30.03		30.13	mg/L	100	90	110			
L65000-03AS	AS	04/12/21 15:29	WI200327-3	30.03	9.23	38.68	mg/L	98	90	110			
L65001-01DUP	DUP	04/12/21 15:29			1.18	1.03	mg/L				14	20	RA
WG517317LFB2	LFB	04/12/21 16:41	WI200327-3	30.03		31.23	mg/L	104	90	110			

Ouray Silver Mines

ACZ Project ID: **L65001**

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
WG516950													
WG516950ICV	ICV	04/05/21 13:54	MS210330-3	.05		.05	mg/L	100	90	110			
WG516950ICB	ICB	04/05/21 13:56				U	mg/L		-0.0011	0.0011			
WG516950LFB	LFB	04/05/21 13:58	MS210312-6	.05		.04865	mg/L	97	85	115			
L65001-02AS	AS	04/05/21 14:32	MS210312-6	.05	U	.04753	mg/L	95	70	130			
L65001-02ASD	ASD	04/05/21 14:34	MS210312-6	.05	U	.0415	mg/L	83	70	130	14	20	

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516764													
WG516764LCSW2	LCSW	03/31/21 20:57	PCN63122	1410		1433	umhos/cm	102	90	110			
WG516764LCSW5	LCSW	04/01/21 0:58	PCN63122	1410		1405	umhos/cm	100	90	110			
WG516764LCSW8	LCSW	04/01/21 4:19	PCN63122	1410		1402	umhos/cm	99	90	110			
L65013-01DUP	DUP	04/01/21 7:47			1570	1551	umhos/cm				1	20	
WG516764LCSW11	LCSW	04/01/21 7:53	PCN63122	1410		1393	umhos/cm	99	90	110			
WG516764LCSW14	LCSW	04/01/21 11:58	PCN63122	1410		1367	umhos/cm	97	90	110			

Copper, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516950													
WG516950ICV	ICV	04/05/21 13:54	MS210330-3	.05		.05068	mg/L	101	90	110			
WG516950ICB	ICB	04/05/21 13:56				U	mg/L		-0.00176	0.00176			
WG516950LFB	LFB	04/05/21 13:58	MS210312-6	.05		.04995	mg/L	100	85	115			
L65001-02AS	AS	04/05/21 14:32	MS210312-6	.05	U	.04887	mg/L	98	70	130			
L65001-02ASD	ASD	04/05/21 14:34	MS210312-6	.05	U	.04197	mg/L	84	70	130	15	20	

Cyanide, total

M335.4 - Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517013													
WG517013ICV	ICV	04/06/21 16:04	WI210331-5	.3		.2847	mg/L	95	90	110			
WG517013ICB	ICB	04/06/21 16:05				U	mg/L		-0.003	0.003			
WG516922LRB	LRB	04/06/21 16:06				U	mg/L		-0.003	0.003			
WG516922LFB	LFB	04/06/21 16:07	WI210331-2	.2		.1982	mg/L	99	90	110			
L64976-01DUP	DUP	04/06/21 16:09			U	U	mg/L				0	20	RA
L64976-02LFM	LFM	04/06/21 16:32	WI210331-2	.2	.0767	.2734	mg/L	98	90	110			

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517131													
WG517131ICV	ICV	04/08/21 12:32	WC210408-1	2.002		2.08	mg/L	104	90	110			
WG517131ICB	ICB	04/08/21 12:36				U	mg/L		-0.3	0.3			
WG517131LFB1	LFB	04/08/21 12:48	WC201221-2	5.015		5	mg/L	100	90	110			
L64990-01AS	AS	04/08/21 14:45	WC201221-2	5.015	.25	5.26	mg/L	100	90	110			
L64990-01ASD	ASD	04/08/21 14:53	WC201221-2	5.015	.25	5.36	mg/L	102	90	110	2	20	
WG517131LFB2	LFB	04/08/21 16:23	WC201221-2	5.015		5.14	mg/L	102	90	110			
L65015-01AS	AS	04/08/21 17:26	WC201221-2	5.015	.65	5.62	mg/L	99	90	110			
L65015-01ASD	ASD	04/08/21 17:34	WC201221-2	5.015	.65	5.46	mg/L	96	90	110	3	20	

Ouray Silver Mines

ACZ Project ID: **L65001**

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
WG516941													
WG516941ICV	ICV	04/05/21 13:58	II210317-1	2		1.911	mg/L	96	95	105			
WG516941ICB	ICB	04/05/21 14:04				U	mg/L		-0.18	0.18			
WG516941LFB	LFB	04/05/21 14:17	II210401-2	1.0018		1.007	mg/L	101	85	115			
L64997-02AS	AS	04/05/21 14:27	II210401-2	1.0018	U	1.012	mg/L	101	85	115			
L64997-02ASD	ASD	04/05/21 14:30	II210401-2	1.0018	U	.968	mg/L	97	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
WG516950													
WG516950ICV	ICV	04/05/21 13:54	MS210330-3	.05		.05013	mg/L	100	90	110			
WG516950ICB	ICB	04/05/21 13:56				U	mg/L		-0.00022	0.00022			
WG516950LFB	LFB	04/05/21 13:58	MS210312-6	.05005		.04947	mg/L	99	85	115			
L65001-02AS	AS	04/05/21 14:32	MS210312-6	.05005	U	.04917	mg/L	98	70	130			
L65001-02ASD	ASD	04/05/21 14:34	MS210312-6	.05005	U	.04252	mg/L	85	70	130	15	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516941													
WG516941ICV	ICV	04/05/21 13:58	II210317-1	100		96.59	mg/L	97	95	105			
WG516941ICB	ICB	04/05/21 14:04				U	mg/L		-0.6	0.6			
WG516941LFB	LFB	04/05/21 14:17	II210401-2	50.00226		50.43	mg/L	101	85	115			
L64997-02AS	AS	04/05/21 14:27	II210401-2	50.00226	13.7	63.78	mg/L	100	85	115			
L64997-02ASD	ASD	04/05/21 14:30	II210401-2	50.00226	13.7	61.08	mg/L	95	85	115	4	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516941													
WG516941ICV	ICV	04/05/21 13:58	II210317-1	2		1.92	mg/L	96	95	105			
WG516941ICB	ICB	04/05/21 14:04				U	mg/L		-0.03	0.03			
WG516941LFB	LFB	04/05/21 14:17	II210401-2	.5005		.489	mg/L	98	85	115			
L64997-02AS	AS	04/05/21 14:27	II210401-2	.5005	U	.485	mg/L	97	85	115			
L64997-02ASD	ASD	04/05/21 14:30	II210401-2	.5005	U	.463	mg/L	93	85	115	5	20	

Mercury, dissolved

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516913													
WG516913ICV	ICV	04/05/21 11:13	HG210329-2	.00501		.00477	mg/L	95	95	105			
WG516913ICB	ICB	04/05/21 11:14				U	mg/L		-0.0002	0.0002			
WG516915													
WG516915LRB	LRB	04/05/21 11:56				U	mg/L		-0.00044	0.00044			
WG516915LFB	LFB	04/05/21 11:57	HG210326-3	.002002		.00218	mg/L	109	85	115			
L64997-01LFM	LFM	04/05/21 12:00	HG210326-3	.002002	U	.00216	mg/L	108	85	115			
L64997-01LFMD	LFMD	04/05/21 12:01	HG210326-3	.002002	U	.00215	mg/L	107	85	115	0	20	
L65028-02LFM	LFM	04/05/21 12:14	HG210326-3	.002002	U	.00231	mg/L	115	85	115			
L65028-02LFMD	LFMD	04/05/21 12:15	HG210326-3	.002002	U	.00219	mg/L	109	85	115	5	20	

Ouray Silver Mines

ACZ Project ID: **L65001**

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.

Molybdenum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516950													
WG516950ICV	ICV	04/05/21 13:54	MS210330-3	.01992		.0204	mg/L	102	90	110			
WG516950ICB	ICB	04/05/21 13:56				U	mg/L		-0.00044	0.00044			
WG516950LFB	LFB	04/05/21 13:58	MS210312-6	.0501		.0509	mg/L	102	85	115			
L65001-02AS	AS	04/05/21 14:32	MS210312-6	.0501	.00057	.05098	mg/L	101	70	130			
L65001-02ASD	ASD	04/05/21 14:34	MS210312-6	.0501	.00057	.04483	mg/L	88	70	130	13	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516941													
WG516941ICV	ICV	04/05/21 13:58	II210317-1	2		1.9178	mg/L	96	95	105			
WG516941ICB	ICB	04/05/21 14:04				U	mg/L		-0.024	0.024			
WG516941LFB	LFB	04/05/21 14:17	II210401-2	.502		.5036	mg/L	100	85	115			
L64997-02AS	AS	04/05/21 14:27	II210401-2	.502	U	.4982	mg/L	99	85	115			
L64997-02ASD	ASD	04/05/21 14:30	II210401-2	.502	U	.4768	mg/L	95	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
WG517194													
WG517194ICV	ICV	04/08/21 23:22	WI210302-17	2.416		2.261	mg/L	94	90	110			
WG517194ICB	ICB	04/08/21 23:23				U	mg/L		-0.02	0.02			
WG517196													
WG517196LFB	LFB	04/09/21 0:29	WI210331-13	2		1.961	mg/L	98	90	110			
L64901-01AS	AS	04/09/21 0:31	WI210331-13	2	.036	2.06	mg/L	101	90	110			
L64913-01DUP	DUP	04/09/21 0:34			.516	.519	mg/L				1	20	

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516900													
WG516900LCSW1	LCSW	04/03/21 12:02	PCN61687	6		6.1	units	102	5.9	6.1			
L65018-01DUP	DUP	04/03/21 15:14			8.3	8.3	units				0	20	
WG516900LCSW3	LCSW	04/03/21 15:19	PCN61687	6		6.1	units	102	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
WG517246													
WG517246ICV	ICV	04/09/21 22:20	WI210401-1	.65228		.672	mg/L	103	90	110			
WG517246ICB	ICB	04/09/21 22:22				U	mg/L		-0.01	0.01			
WG517248													
WG517072LRB	LRB	04/09/21 23:09				U	mg/L		-0.01	0.01			
WG517072LFB	LFB	04/09/21 23:10	WI210331-02	.5		.514	mg/L	103	90	110			
L65001-01LFM	LFM	04/09/21 23:12	WI210331-02	.5	.024	.552	mg/L	106	90	110			
L65001-02DUP	DUP	04/09/21 23:14			U	U	mg/L				0	20	RA

Ouray Silver Mines

ACZ Project ID: **L65001**

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.

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516941													
WG516941ICV	ICV	04/05/21 13:58	II210317-1	20		19.48	mg/L	97	95	105			
WG516941ICB	ICB	04/05/21 14:04				U	mg/L		-0.6	0.6			
WG516941LFB	LFB	04/05/21 14:17	II210401-2	99.97791		102.7	mg/L	103	85	115			
L64997-02AS	AS	04/05/21 14:27	II210401-2	99.97791	5.38	107.9	mg/L	103	85	115			
L64997-02ASD	ASD	04/05/21 14:30	II210401-2	99.97791	5.38	103.7	mg/L	98	85	115	4	20	

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516766													
WG516766PBW	PBW	03/31/21 20:10				U	mg/L		-20	20			
WG516766LCSW	LCSW	03/31/21 20:12	PCN62903	1000		990	mg/L	99	80	120			
L64997-01DUP	DUP	03/31/21 20:17			774	774	mg/L				0	10	

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516886													
WG516886PBW	PBW	04/02/21 15:20				U	mg/L		-5	5			
WG516886LCSW	LCSW	04/02/21 15:21	PCN62151	100		105	mg/L	105	80	120			
L65022-01DUP	DUP	04/02/21 15:40			16	15	mg/L				6	10	RA

Selenium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516950													
WG516950ICV	ICV	04/05/21 13:54	MS210330-3	.05		.04879	mg/L	98	90	110			
WG516950ICB	ICB	04/05/21 13:56				U	mg/L		-0.00022	0.00022			
WG516950LFB	LFB	04/05/21 13:58	MS210312-6	.05		.04656	mg/L	93	85	115			
L65001-02AS	AS	04/05/21 14:32	MS210312-6	.05	.00035	.05054	mg/L	100	70	130			
L65001-02ASD	ASD	04/05/21 14:34	MS210312-6	.05	.00035	.04593	mg/L	91	70	130	10	20	

Silica, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516941													
WG516941ICV	ICV	04/05/21 13:58	II210317-1	42.8		41.83	mg/L	98	95	105			
WG516941ICB	ICB	04/05/21 14:04				U	mg/L		-0.6	0.6			
WG516941LFB	LFB	04/05/21 14:17	II210401-2	21.415		22.34	mg/L	104	85	115			
L64997-02AS	AS	04/05/21 14:27	II210401-2	21.415	11.2	32.96	mg/L	102	85	115			
L64997-02ASD	ASD	04/05/21 14:30	II210401-2	21.415	11.2	31.82	mg/L	96	85	115	4	20	

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516950													
WG516950ICV	ICV	04/05/21 13:54	MS210330-3	.02004		.02113	mg/L	105	90	110			
WG516950ICB	ICB	04/05/21 13:56				U	mg/L		-0.00022	0.00022			
WG516950LFB	LFB	04/05/21 13:58	MS210312-6	.01002		.01013	mg/L	101	85	115			
L65001-02AS	AS	04/05/21 14:32	MS210312-6	.01002	U	.01001	mg/L	100	70	130			
L65001-02ASD	ASD	04/05/21 14:34	MS210312-6	.01002	U	.00969	mg/L	97	70	130	3	20	

Ouray Silver Mines

ACZ Project ID: **L65001**

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.

Sodium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516941													
WG516941ICV	ICV	04/05/21 13:58	II210317-1	100		96.69	mg/L	97	95	105			
WG516941ICB	ICB	04/05/21 14:04				U	mg/L		-0.6	0.6			
WG516941LFB	LFB	04/05/21 14:17	II210401-2	100.0235		101.5	mg/L	101	85	115			
L64997-02AS	AS	04/05/21 14:27	II210401-2	100.0235	10	111.2	mg/L	101	85	115			
L64997-02ASD	ASD	04/05/21 14:30	II210401-2	100.0235	10	107.5	mg/L	97	85	115	3	20	

Sulfate D516-02/-07/-11 - Turbidimetric

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517555													
WG517555ICB	ICB	04/16/21 9:05				U	mg/L		-3	3			
WG517555ICV	ICV	04/16/21 9:05	WI210415-1	20		20.9	mg/L	105	90	110			
WG517555LFB	LFB	04/16/21 9:33	WI210105-3	10		10.1	mg/L	101	90	110			
L65001-01DUP	DUP	04/16/21 9:43			83.1	82.6	mg/L				1	20	
L65001-02AS	AS	04/16/21 9:43	SO4TURB5X	10	81.7	91	mg/L	93	90	110			

Thallium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516950													
WG516950ICV	ICV	04/05/21 13:54	MS210330-3	.05		.04766	mg/L	95	90	110			
WG516950ICB	ICB	04/05/21 13:56				U	mg/L		-0.00022	0.00022			
WG516950LFB	LFB	04/05/21 13:58	MS210312-6	.05		.04481	mg/L	90	85	115			
L65001-02AS	AS	04/05/21 14:32	MS210312-6	.05	U	.046	mg/L	92	70	130			
L65001-02ASD	ASD	04/05/21 14:34	MS210312-6	.05	U	.03875	mg/L	78	70	130	17	20	

Uranium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516950													
WG516950ICV	ICV	04/05/21 13:54	MS210330-3	.05		.04834	mg/L	97	90	110			
WG516950ICB	ICB	04/05/21 13:56				U	mg/L		-0.00022	0.00022			
WG516950LFB	LFB	04/05/21 13:58	MS210312-6	.05		.04723	mg/L	94	85	115			
L65001-02AS	AS	04/05/21 14:32	MS210312-6	.05	U	.04842	mg/L	97	70	130			
L65001-02ASD	ASD	04/05/21 14:34	MS210312-6	.05	U	.04163	mg/L	83	70	130	15	20	

Vanadium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516941													
WG516941ICV	ICV	04/05/21 13:58	II210317-1	2		1.892	mg/L	95	95	105			
WG516941ICB	ICB	04/05/21 14:04				U	mg/L		-0.015	0.015			
WG516941LFB	LFB	04/05/21 14:17	II210401-2	.5005		.5047	mg/L	101	85	115			
L64997-02AS	AS	04/05/21 14:27	II210401-2	.5005	U	.5024	mg/L	100	85	115			
L64997-02ASD	ASD	04/05/21 14:30	II210401-2	.5005	U	.479	mg/L	96	85	115	5	20	

Ouray Silver Mines

ACZ Project ID: **L65001**

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.

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG516941													
WG516941ICV	ICV	04/05/21 13:58	II210317-1	2		1.925	mg/L	96	95	105			
WG516941ICB	ICB	04/05/21 14:04				U	mg/L		-0.06	0.06			
WG516941LFB	LFB	04/05/21 14:17	II210401-2	.50075		.498	mg/L	99	85	115			
L64997-02AS	AS	04/05/21 14:27	II210401-2	.50075	U	.509	mg/L	102	85	115			
L64997-02ASD	ASD	04/05/21 14:30	II210401-2	.50075	U	.485	mg/L	97	85	115	5	20	

Ouray Silver Mines

ACZ Project ID: **L65001**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65001-01	WG517317	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).
	WG517013	Cyanide, total	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).
	WG517248	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).
	WG516886	Residue, Non-Filterable (TSS) @105C	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
L65001-02	WG517317	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).
	WG517013	Cyanide, total	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).
	WG517248	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).
	WG516886	Residue, Non-Filterable (TSS) @105C	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
L65001-03	WG517317	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).
	WG517013	Cyanide, total	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).
	WG517248	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).
	WG516886	Residue, Non-Filterable (TSS) @105C	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

Ouray Silver Mines

ACZ Project ID: **L65001**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L65001

Date Received: 03/30/2021 12:03

Received By:

Date Printed: 3/31/2021

Receipt Verification

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

Samples/Containers

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

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?
NA34805	4.9	<=6.0	15	Yes

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.

Ouray Silver Mines

ACZ Project ID: L65001

Date Received: 03/30/2021 12:03

Received By:

Date Printed: 3/31/2021

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.** L65001**CHAIN of CUSTODY**

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

Report to:

Name: Solid Solutions Geoscience

Address:

Company: Briana GreeE-mail: briana@solid.solutions.geoscience.com

Copy of Report to:

Name: Chris Bodane

E-mail:

Company: Pure Water Systems

Telephone:

Invoice to:

Name: Ashlee Briggs

Address:

Company: Ouray Silver Mines IncE-mail: payables@ouraysilvermines.com

Telephone:

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 ☒
NO ☐

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 ☐

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

Sampler's Name: Chris Sampler's Site Information State CO Zip code 81427 Time Zone MT

*Sampler's 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

ANALYSES REQUESTED (attach list or use quote number)

Quote #: GW

PO#:

Reporting state for compliance testing:

Check box if samples include NRC licensed material? ☐

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	#	Q															
GW-2A	3/29 9:45	GW	5		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
GW-3R	3/29 10:30	GW	5		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
GW - 99	3/29 10:30	GW	5		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
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Account: OURAYSM/Ouray Silver Mines**Bottle Order:** BO46933

Internal Note:

Bill to Account: Bill to ACZ**Ship Date Requested:** 03/19/2021**Request Placed at:** 03/19/2021 08:09**Service Requested:** UPS Ground**Sampling supplies**

PACK	Qty	ACZ ID	Type	Description
	2	COC	Chain of Custody	Chain of Custody, 1 for 10 samples.
	2	SEAL	Custody Seal	Custody seals for cooler, two for each cooler.
	1	RETURN	Return Address	Return Address label, one for each cooler.
	65	LABELS	Sample Labels	ACZ supplied labels for sample containers
		TRIP HG		

ACZ Coolers

PACK	Qty	ACZ ID	Size	Weight	UPS Tracking Number
	1	6823	Large	12	
	1	4300	Large	11	

Quote number: GW

Groundwater

Sample Quantity: 13

Client is responsible for necessary field filtering

PACK	Qty	Type	Size	Filter/Raw/Preserve	Instructions
	1	GREEN PC	125 ML	Green pre-cleaned Filtered/Nitric	Metals (dissolved including ICPMS) - Filter sample with .45 micron filter. Do not overfill as there is Nitric Acid in the bottle.
	1	PURPLE	250 ML	Raw/NaOH	Cyanide - Do not overfill as there is Sodium Hydroxide in the bottle.
	1	RAW	500 ML	Raw	Wet Chemistry (analyses that do not require preservative or filtration) - Completely fill container.
	1	WHITE	250 ML	Filtered	Wet chemistry (dissolved) - Filter sample with .45 micron filter. Completely fill container.
	1	YELLOW	250 ML	Raw/Sulfuric	For total wet chemistry analyses. Do not overfill as there is Sulfuric Acid in the bottle.

Prepared By/Date: _____

sh

May 10, 2021

Report to:

Briana Greer
Ouray Silver Mines
285 S. Madison Ave.

Louisville, CO 80027

cc: Chris Bolane, Accounts Payable

Bill to:

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

Project ID:

ACZ Project ID: L65443

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on April 22, 2021. This project has been assigned to ACZ's project number, L65443. Please reference this number in all future inquiries.

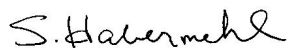
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L65443. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 June 09, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

May 10, 2021

Project ID:

ACZ Project ID: L65443

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 3 miscellaneous samples from Ouray Silver Mines on April 22, 2021. 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 L65443. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for organic 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. (VB) Continuing Calibration Verification, Control Samples and matrix spike recovery was above acceptance limits. Target analyte was not detected in the sample [$<MDL$].

2. (N1) Applies to: L65443-01/3,3-DICHLOROBENZIDINE

Laboratory control sample and matrix spike recovery was below acceptance limits. Recovery of laboratory control duplicated was within acceptance limits.

3. (R1) Applies to: L65443-01/2,4-DIMETHYLPHENOL
L65443-01/4-CHLOROANILINE
L65443-01/BENZOIC ACID

Relative Percent Difference for laboratory control samples exceeded the method or laboratory acceptance limit. At a minimum, one laboratory control sample recovery met acceptance criteria.

Ouray Silver Mines

Project ID:

Sample ID: GW-4

ACZ Sample ID: **L65443-01**

Date Sampled: 04/21/21 11:10

Date Received: 04/22/21

Sample Matrix: Surface Water

Base Neutral Acid Extractables by GC/MS

Analysis Method: **M8270D/E GC/MS**

Extract Method: **M3520C**

Workgroup: **WG518736**

Analyst: jmm

Extract Date: 04/28/21 11:15

Analysis Date: 05/04/21 15:28

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
1,2,4-Trichlorobenzene	120-82-1	<1.9	U	0.94		ug/L	1.9	9.4
1,2-Dichlorobenzene	95-50-1	<1.9	U	0.94		ug/L	1.9	9.4
1,3-Dichlorobenzene	541-73-1	<1.9	U	0.94		ug/L	1.9	9.4
1,4-Dichlorobenzene	106-46-7	<1.9	U	0.94		ug/L	1.9	9.4
1,4-Dioxane	123-91-1	<1.9	U	0.94	*	ug/L	1.9	9.4
2,4,5-Trichlorophenol	95-95-4	<9	U	0.94		ug/L	9	47
2,4,6-Trichlorophenol	88-06-2	<1.9	U	0.94		ug/L	1.9	9.4
2,4-Dichlorophenol	120-83-2	<1.9	U	0.94		ug/L	1.9	9.4
2,4-Dimethylphenol	105-67-9	<3.8	U	0.94	*	ug/L	3.8	18.8
2,4-Dinitrophenol	51-28-5	<19	U	0.94		ug/L	19	47
2,4-Dinitrotoluene	121-14-2	<1.9	U	0.94		ug/L	1.9	9.4
2,6-Dinitrotoluene	606-20-8	<9	U	0.94		ug/L	9	47
2-Chloronaphthalene	91-58-7	<1.9	U	0.94		ug/L	1.9	9.4
2-Chlorophenol	95-57-8	<1.9	U	0.94		ug/L	1.9	9.4
2-Methylnaphthalene	91-57-6	<1.9	U	0.94		ug/L	1.9	9.4
2-Methylphenol	95-48-7	<1.9	U	0.94		ug/L	1.9	9.4
2-Nitroaniline	88-74-4	<9	U	0.94	*	ug/L	9	47
2-Nitrophenol	88-75-5	<3.8	U	0.94		ug/L	3.8	18.8
3- & 4-Methylphenol	1319-77-3	<3.8	U	0.94		ug/L	3.8	18.8
3,3-Dichlorobenzidine	91-94-1	<19	U	0.94	*	ug/L	19	47
3-Nitroaniline	99-09-2	<9	U	0.94		ug/L	9	47
4,6-Dinitro-2-methylphenol	534-52-1	<9	U	0.94		ug/L	9	47
4-Bromophenyl phenyl ether	101-55-3	<1.9	U	0.94		ug/L	1.9	9.4
4-Chloro-3-methylphenol	59-50-7	<1.9	U	0.94		ug/L	1.9	9.4
4-Chloroaniline	106-47-8	<1.9	U	0.94	*	ug/L	1.9	9.4
4-Chlorophenyl phenyl ether	7005-72-3	<1.9	U	0.94		ug/L	1.9	9.4
4-Nitroaniline	100-01-6	<9	U	0.94	*	ug/L	9	47
4-Nitrophenol	100-02-07	<9	U	0.94		ug/L	9	47
Acenaphthene	83-32-9	<1.9	U	0.94		ug/L	1.9	9.4
Acenaphthylene	208-96-8	<1.9	U	0.94		ug/L	1.9	9.4
Alpha-terpineol		<4.7	U	0.94	*	ug/L	4.7	9.4
Aniline	62-53-3	<9	U	0.94	*	ug/L	9	47
Anthracene	120-12-7	<1.9	U	0.94		ug/L	1.9	9.4
Azobenzene	103-33-3	<9	U	0.94		ug/L	9	47
Benzidine	92-87-5	<3.8	U	0.94	*	ug/L	3.8	18.8
Benzo(a)anthracene	56-55-3	<1.9	U	0.94	*	ug/L	1.9	9.4
Benzo(a)pyrene	50-32-8	<1.9	U	0.94	*	ug/L	1.9	9.4
Benzo(b)fluoranthene	205-99-2	<1.9	U	0.94	*	ug/L	1.9	9.4
Benzo(g,h,i)perylene	191-24-2	<1.9	U	0.94	*	ug/L	1.9	9.4

Ouray Silver Mines

Project ID:

Sample ID: GW-4

ACZ Sample ID: **L65443-01**

Date Sampled: 04/21/21 11:10

Date Received: 04/22/21

Sample Matrix: Surface Water

Benzo(k)fluoranthene	207-08-9	<1.9	U	0.94	*	ug/L	1.9	9.4
Benzoic Acid	65-85-0	<19	U	0.94	*	ug/L	19	47
Benzyl alcohol	100-51-6	<1.9	U	0.94		ug/L	1.9	9.4
Bis(2-chloroethoxy)methane	111-91-1	<1.9	U	0.94		ug/L	1.9	9.4
Bis(2-chloroethyl) ether	111-44-4	<1.9	U	0.94		ug/L	1.9	9.4
Bis(2-chloroisopropyl) ether	108-60-1	<1.9	U	0.94		ug/L	1.9	9.4
Bis(2-ethylhexyl) phthalate	117-81-7	5.2	J	0.94	*	ug/L	3.8	18.8
Butyl benzyl phthalate	85-68-7	<1.9	U	0.94		ug/L	1.9	9.4
Chrysene	218-01-9	<1.9	U	0.94	*	ug/L	1.9	9.4
Dibenzo(a,h)anthracene	53-70-3	<1.9	U	0.94	*	ug/L	1.9	9.4
Dibenzofuran	132-64-9	<1.9	U	0.94		ug/L	1.9	9.4
Diethylphthalate	84-66-2	<1.9	U	0.94		ug/L	1.9	9.4
Dimethyl phthalate	131-11-3	<1.9	U	0.94		ug/L	1.9	9.4
Di-n-butyl phthalate	84-74-2	2.1	J	0.94		ug/L	1.9	9.4
Di-n-octyl phthalate	117-84-0	<1.9	U	0.94	*	ug/L	1.9	9.4
Fluoranthene	206-44-0	<1.9	U	0.94		ug/L	1.9	9.4
Fluorene	86-73-7	<1.9	U	0.94		ug/L	1.9	9.4
Hexachlorobenzene	118-74-1	<1.9	U	0.94		ug/L	1.9	9.4
Hexachlorobutadiene	87-68-3	<1.9	U	0.94		ug/L	1.9	9.4
Hexachlorocyclopentadiene	77-47-4	<3.8	U	0.94		ug/L	3.8	18.8
Hexachloroethane	67-72-1	<1.9	U	0.94		ug/L	1.9	9.4
Indeno(1,2,3-cd)pyrene	193-39-5	<1.9	U	0.94	*	ug/L	1.9	9.4
Isophorone	78-59-1	<1.9	U	0.94		ug/L	1.9	9.4
Naphthalene	91-20-3	<1.9	U	0.94		ug/L	1.9	9.4
Nitrobenzene	98-95-3	<1.9	U	0.94	*	ug/L	1.9	9.4
N-Nitrosodimethylamine	62-75-9	<9	U	0.94		ug/L	9	47
N-Nitrosodi-n-propylamine	621-64-7	<1.9	U	0.94		ug/L	1.9	9.4
N-Nitrosodiphenylamine	86-30-6	<1.9	U	0.94	*	ug/L	1.9	9.4
Pentachlorophenol	87-86-5	<9	U	0.94		ug/L	9	47
Phenanthrene	85-01-8	<1.9	U	0.94		ug/L	1.9	9.4
Phenol	108-95-2	<3.8	U	0.94		ug/L	3.8	18.8
Pyrene	129-00-0	<1.9	U	0.94		ug/L	1.9	9.4
Pyridine	110-86-1	<4.7	U	0.94		ug/L	4.7	9.4

Surrogate Recoveries	CAS	% Recovery	Dilution	XQ	Units	LCL	UCL
2,4,6-Tribromophenol	118-79-6	82.8	0.94		%	40	125
2-Fluorobiphenyl	321-60-8	74.9	0.94		%	50	110
2-Fluorophenol	367-12-4	69	0.94		%	54	100
Nitrobenzene-d5	4165-60-0	75.7	0.94		%	40	110
Phenol-d6	13127-88-3	76	0.94		%	47	113
Terphenyl-d14	1718-51-0	72.4	0.94		%	50	135

Ouray Silver Mines

Project ID:

Sample ID: GW-4

ACZ Sample ID: **L65443-02**

Date Sampled: 04/21/21 11:20

Date Received: 04/22/21

Sample Matrix: Surface Water

Volatile Organics by GC/MS

Analysis Method: **M8260C/D GC/MS**

Extract Method: **5030C**

Workgroup: **WG517626**

Analyst: jmm

Extract Date: 04/26/21 20:00

Analysis Date: 04/26/21 20:00

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
1,1,1,2-Tetrachloroethane	630-20-6	<4	U	1	*	ug/L	4	4
1,1,1-Trichloroethane	71-55-6	<10	U	1	*	ug/L	10	10
1,1,2,2-Tetrachloroethane	79-34-5	<3	U	1	*	ug/L	3	3
1,1,2-Trichloroethane	79-00-5	<4	U	1	*	ug/L	4	4
1,1-Dichloroethane	75-34-3	<4	U	1	*	ug/L	4	4
1,1-Dichloroethene	75-35-4	<4	U	1	*	ug/L	4	4
1,1-Dichloropropene	563-58-6	<4	U	1	*	ug/L	4	4
1,2,3-Trichlorobenzene	87-61-6	<4	U	1	*	ug/L	4	4
1,2,3-Trichloropropane	96-18-4	<4	U	1	*	ug/L	4	4
1,2,4-Trichlorobenzene	120-82-1	<4	U	1	*	ug/L	4	4
1,2,4-Trimethylbenzene	95-63-6	<4	U	1	*	ug/L	4	4
1,2-Dibromo-3-chloropropane	96-12-8	<4	U	1	*	ug/L	4	4
1,2-Dibromoethane	106-93-4	<4	U	1	*	ug/L	4	4
1,2-Dichlorobenzene	95-50-1	<4	U	1	*	ug/L	4	4
1,2-Dichloroethane	107-06-2	<4	U	1	*	ug/L	4	4
1,2-Dichloropropane	78-87-5	<4	U	1	*	ug/L	4	4
1,3,5-Trimethylbenzene	108-67-8	<4	U	1	*	ug/L	4	4
1,3-Dichlorobenzene	541-73-1	<4	U	1	*	ug/L	4	4
1,3-Dichloropropane	142-28-9	<4	U	1	*	ug/L	4	4
1,4-Dichlorobenzene	106-46-7	<4	U	1	*	ug/L	4	4
2,2-Dichloropropane	594-20-7	<4	U	1	*	ug/L	4	4
2-Butanone	78-93-3	<10	U	1	*	ug/L	10	10
2-Chlorotoluene	95-49-8	<4	U	1	*	ug/L	4	4
2-Hexanone	591-78-6	<10	U	1	*	ug/L	10	10
4-Chlorotoluene	106-43-4	<4	U	1	*	ug/L	4	4
4-Isopropyltoluene	99-87-6	<4	U	1	*	ug/L	4	4
4-Methyl-2-Pentanone	108-10-1	<10	U	1	*	ug/L	10	10
Acetone	67-64-1	<10	U	1	*	ug/L	10	10
Acrylonitrile	107-13-1	<4	U	1	*	ug/L	4	4
Benzene	71-43-2	<4	U	1	*	ug/L	4	4
Bromobenzene	108-86-1	<4	U	1	*	ug/L	4	4
Bromochloromethane	74-97-5	<4	U	1	*	ug/L	4	4
Bromodichloromethane	75-27-4	<4	U	1	*	ug/L	4	4
Bromoform	75-25-2	<4	U	1	*	ug/L	4	4
Bromomethane	74-83-9	<4	U	1	*	ug/L	4	4
Carbon Disulfide	75-15-0	<4	U	1	*	ug/L	4	4
Carbon Tetrachloride	56-23-5	<10	U	1	*	ug/L	10	10
Chlorobenzene	108-90-7	<4	U	1	*	ug/L	4	4

Ouray Silver Mines

Project ID:

Sample ID: GW-4

ACZ Sample ID: **L65443-02**

Date Sampled: 04/21/21 11:20

Date Received: 04/22/21

Sample Matrix: Surface Water

Chloroethane	75-00-3	<4	U	1	*	ug/L	4	4
Chloroform	67-66-3	<4	U	1	*	ug/L	4	4
Chloromethane	74-87-3	<4	U	1	*	ug/L	4	4
cis-1,2-Dichloroethene	156-59-2	<4	U	1	*	ug/L	4	4
cis-1,3-Dichloropropene	10061-01-5	<4	U	1	*	ug/L	4	4
Dibromochloromethane	124-48-1	<4	U	1	*	ug/L	4	4
Dibromomethane	74-95-3	<4	U	1	*	ug/L	4	4
Dichlorodifluoromethane	75-71-8	<5	U	1	*	ug/L	5	5
Ethylbenzene	100-41-4	<4	U	1	*	ug/L	4	4
Hexachlorobutadiene	87-68-3	<4	U	1	*	ug/L	4	4
Isopropylbenzene	98-82-8	<4	U	1	*	ug/L	4	4
m p Xylene	1330-20-7	<10	U	1	*	ug/L	10	10
Methyl Tert Butyl Ether	1634-04-4	<4	U	1	*	ug/L	4	4
Methylene Chloride	75-09-2	<4	U	1	*	ug/L	4	4
Naphthalene	91-20-3	<4	U	1	*	ug/L	4	4
n-Butylbenzene	104-51-8	<4	U	1	*	ug/L	4	4
n-Propylbenzene	103-65-1	<4	U	1	*	ug/L	4	4
o Xylene	95-47-6	<4	U	1	*	ug/L	4	4
sec-Butylbenzene	135-98-8	<4	U	1	*	ug/L	4	4
Styrene	100-42-5	<4	U	1	*	ug/L	4	4
tert-Butylbenzene	98-06-6	<4	U	1	*	ug/L	4	4
Tetrachloroethene	127-18-4	<4	U	1	*	ug/L	4	4
Toluene	108-88-3	<4	U	1	*	ug/L	4	4
trans-1,2-Dichloroethene	156-60-5	<4	U	1	*	ug/L	4	4
trans-1,3-Dichloropropene	10061-02-6	<3	U	1	*	ug/L	3	3
Trichloroethene	79-01-6	<5	U	1	*	ug/L	5	5
Trichlorofluoromethane	75-69-4	<4	U	1	*	ug/L	4	4
Vinyl Acetate	108-05-4	<4	U	1	*	ug/L	4	4
Vinyl Chloride	75-01-4	<4	U	1	*	ug/L	4	4
Surrogate Recoveries	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
Bromofluorobenzene	460-00-4	102.1		1		%	70	130
Dibromofluoromethane	1868-53-7	111.8		1		%	70	130
Toluene-d8	2037-26-5	93.1		1		%	70	130

Ouray Silver Mines

Project ID:

Sample ID: TB210412-1

ACZ Sample ID: **L65443-03**

Date Sampled: 04/21/21 11:20

Date Received: 04/22/21

Sample Matrix: Surface Water

Volatile Organics by GC/MS

Analysis Method: **M8260C/D GC/MS**

Extract Method: **5030C**

Workgroup: **WG517626**

Analyst: jmm

Extract Date: 04/26/21 19:31

Analysis Date: 04/26/21 19:31

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
1,1,1,2-Tetrachloroethane	630-20-6	<4	U	1	*	ug/L	4	4
1,1,1-Trichloroethane	71-55-6	<10	U	1	*	ug/L	10	10
1,1,2,2-Tetrachloroethane	79-34-5	<3	U	1	*	ug/L	3	3
1,1,2-Trichloroethane	79-00-5	<4	U	1	*	ug/L	4	4
1,1-Dichloroethane	75-34-3	<4	U	1	*	ug/L	4	4
1,1-Dichloroethene	75-35-4	<4	U	1	*	ug/L	4	4
1,1-Dichloropropene	563-58-6	<4	U	1	*	ug/L	4	4
1,2,3-Trichlorobenzene	87-61-6	<4	U	1	*	ug/L	4	4
1,2,3-Trichloropropane	96-18-4	<4	U	1	*	ug/L	4	4
1,2,4-Trichlorobenzene	120-82-1	<4	U	1	*	ug/L	4	4
1,2,4-Trimethylbenzene	95-63-6	<4	U	1	*	ug/L	4	4
1,2-Dibromo-3-chloropropane	96-12-8	<4	U	1	*	ug/L	4	4
1,2-Dibromoethane	106-93-4	<4	U	1	*	ug/L	4	4
1,2-Dichlorobenzene	95-50-1	<4	U	1	*	ug/L	4	4
1,2-Dichloroethane	107-06-2	<4	U	1	*	ug/L	4	4
1,2-Dichloropropane	78-87-5	<4	U	1	*	ug/L	4	4
1,3,5-Trimethylbenzene	108-67-8	<4	U	1	*	ug/L	4	4
1,3-Dichlorobenzene	541-73-1	<4	U	1	*	ug/L	4	4
1,3-Dichloropropane	142-28-9	<4	U	1	*	ug/L	4	4
1,4-Dichlorobenzene	106-46-7	<4	U	1	*	ug/L	4	4
2,2-Dichloropropane	594-20-7	<4	U	1	*	ug/L	4	4
2-Butanone	78-93-3	<10	U	1	*	ug/L	10	10
2-Chlorotoluene	95-49-8	<4	U	1	*	ug/L	4	4
2-Hexanone	591-78-6	<10	U	1	*	ug/L	10	10
4-Chlorotoluene	106-43-4	<4	U	1	*	ug/L	4	4
4-Isopropyltoluene	99-87-6	<4	U	1	*	ug/L	4	4
4-Methyl-2-Pentanone	108-10-1	<10	U	1	*	ug/L	10	10
Acetone	67-64-1	<10	U	1	*	ug/L	10	10
Acrylonitrile	107-13-1	<4	U	1	*	ug/L	4	4
Benzene	71-43-2	<4	U	1	*	ug/L	4	4
Bromobenzene	108-86-1	<4	U	1	*	ug/L	4	4
Bromochloromethane	74-97-5	<4	U	1	*	ug/L	4	4
Bromodichloromethane	75-27-4	<4	U	1	*	ug/L	4	4
Bromoform	75-25-2	<4	U	1	*	ug/L	4	4
Bromomethane	74-83-9	<4	U	1	*	ug/L	4	4
Carbon Disulfide	75-15-0	<4	U	1	*	ug/L	4	4
Carbon Tetrachloride	56-23-5	<10	U	1	*	ug/L	10	10
Chlorobenzene	108-90-7	<4	U	1	*	ug/L	4	4

Ouray Silver Mines

Project ID:

Sample ID: TB210412-1

ACZ Sample ID: **L65443-03**

Date Sampled: 04/21/21 11:20

Date Received: 04/22/21

Sample Matrix: Surface Water

Chloroethane	75-00-3	<4	U	1	*	ug/L	4	4
Chloroform	67-66-3	<4	U	1	*	ug/L	4	4
Chloromethane	74-87-3	<4	U	1	*	ug/L	4	4
cis-1,2-Dichloroethene	156-59-2	<4	U	1	*	ug/L	4	4
cis-1,3-Dichloropropene	10061-01-5	<4	U	1	*	ug/L	4	4
Dibromochloromethane	124-48-1	<4	U	1	*	ug/L	4	4
Dibromomethane	74-95-3	<4	U	1	*	ug/L	4	4
Dichlorodifluoromethane	75-71-8	<5	U	1	*	ug/L	5	5
Ethylbenzene	100-41-4	<4	U	1	*	ug/L	4	4
Hexachlorobutadiene	87-68-3	<4	U	1	*	ug/L	4	4
Isopropylbenzene	98-82-8	<4	U	1	*	ug/L	4	4
m p Xylene	1330-20-7	<10	U	1	*	ug/L	10	10
Methyl Tert Butyl Ether	1634-04-4	<4	U	1	*	ug/L	4	4
Methylene Chloride	75-09-2	<4	U	1	*	ug/L	4	4
Naphthalene	91-20-3	<4	U	1	*	ug/L	4	4
n-Butylbenzene	104-51-8	<4	U	1	*	ug/L	4	4
n-Propylbenzene	103-65-1	<4	U	1	*	ug/L	4	4
o Xylene	95-47-6	<4	U	1	*	ug/L	4	4
sec-Butylbenzene	135-98-8	<4	U	1	*	ug/L	4	4
Styrene	100-42-5	<4	U	1	*	ug/L	4	4
tert-Butylbenzene	98-06-6	<4	U	1	*	ug/L	4	4
Tetrachloroethene	127-18-4	<4	U	1	*	ug/L	4	4
Toluene	108-88-3	<4	U	1	*	ug/L	4	4
trans-1,2-Dichloroethene	156-60-5	<4	U	1	*	ug/L	4	4
trans-1,3-Dichloropropene	10061-02-6	<3	U	1	*	ug/L	3	3
Trichloroethene	79-01-6	<5	U	1	*	ug/L	5	5
Trichlorofluoromethane	75-69-4	<4	U	1	*	ug/L	4	4
Vinyl Acetate	108-05-4	<4	U	1	*	ug/L	4	4
Vinyl Chloride	75-01-4	<4	U	1	*	ug/L	4	4
Surrogate Recoveries	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
Bromofluorobenzene	460-00-4	103.7		1		%	70	130
Dibromofluoromethane	1868-53-7	111.3		1		%	70	130
Toluene-d8	2037-26-5	93.8		1		%	70	130

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>Lower</i>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<i>LCL</i>	Lower Control Limit
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #4) Allows for instrument and annual fluctuations.
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>Upper</i>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<i>UCL</i>	Upper Control Limit
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>SURR</i>	Surrogate	<i>LFB</i>	Laboratory Fortified Blank
<i>INTS</i>	Internal Standard	<i>LFM</i>	Laboratory Fortified Matrix
<i>AS</i>	Analytical Spike (Post Digestion)	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>ASD</i>	Analytical Spike (Post Digestion) Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>DUP</i>	Sample Duplicate	<i>MS/MSD</i>	Matrix Spike/Matrix Spike Duplicate
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBS</i>	Prep Blank - Soil
<i>LCSW</i>	Laboratory Control Sample - Water	<i>PBW</i>	Prep Blank - Water

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.

ACZ Qualifiers (Qual)

O	Analyte concentration is estimated due to result exceeding calibration range.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
J	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
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 600/4-90/020. Methods for the Determination of Organic Compounds in Drinking Water (I), July 1990.
- (3) EPA 600/R-92/129. Methods for the Determination of Organic Compounds in Drinking Water (II), July 1990.
- (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) Excluding Oil & Grease, solid & biological matrices for organic analyses are reported on a wet weight basis.
- (3) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
- (4) 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>

Ouray Silver Mines

ACZ Project ID: **L65443**

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.

Base Neutral Acid Extractables by GC/MS

M8270D/E GC/MS

WG518736

MS	Sample ID: L65443-01MS			PCN/SCN: OPMBNA210414-				Analyzed:		05/04/21 16:01	
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual	
1,2,4-TRICHLOROBENZENE	50015	U	29.5	ug/L	63.0	29	116				
1,2-DICHLOROBENZENE	50000	U	28.3	ug/L	61.0	32	111				
1,3-DICHLOROBENZENE	50015	U	26.3	ug/L	56.0	28	110				
1,4-DICHLOROBENZENE	50005	U	27.2	ug/L	58.0	29	112				
1,4-DIOXANE	50050	U	27	ug/L	58.0	55	84				
2,4,5-TRICHLOROPHENOL	50005	U	40	ug/L	86.0	53	123				
2,4,6-TRICHLOROPHENOL	50015	U	42.5	ug/L	91.0	43	140				
2,4-DICHLOROPHENOL	50005	U	40.7	ug/L	87.0	47	121				
2,4-DIMETHYLPHENOL	50005	U	36.3	ug/L	78.0	31	124				
2,4-DINITROPHENOL	50020	U	43	ug/L	92.0	23	143				
2,4-DINITROTOLUENE	50005	U	38.2	ug/L	82.0	57	128				
2,6-DINITROTOLUENE	50010	U	39	ug/L	84.0	57	124				
2-CHLORONAPHTHALENE	50015	U	32.4	ug/L	69.0	40	116				
2-CHLOROPHENOL	50005	U	35.3	ug/L	76.0	38	117				
2-METHYLNAPHTHALENE	50005	U	33.6	ug/L	72.0	40	121				
2-METHYLPHENOL	50010	U	35.2	ug/L	75.0	40	110				
2-NITROANILINE	50010	U	18	ug/L	39.0	55	127			M2	
2-NITROPHENOL	50005	U	38.3	ug/L	82.0	47	123				
3- & 4-METHYLPHENOL	50025	U	37.8	ug/L	81.0	29	110				
3,3-DICHLOROBENZIDINE	50120	U	U	ug/L	0.0	27	129			N1	
3-NITROANILINE	50010	U	30	ug/L	64.0	41	128				
4,6-DINITRO-2-METHYLPHENOL	50010	U	28	ug/L	60.0	44	137				
4-BROMOPHENYL PHENYL ETHER	50005	U	31.2	ug/L	67.0	55	124				
4-CHLORO-3-METHYLPHENOL	50020	U	46.3	ug/L	99.0	52	119				
4-CHLOROANILINE	50005	U	30.5	ug/L	65.0	33	117				
4-CHLOROPHENYL PHENYL ETHER	50005	U	31	ug/L	66.0	53	121				
4-NITROANILINE	50005	U	15	ug/L	32.0	35	120			M2	
4-NITROPHENOL	50025	U	44	ug/L	94.0	38	142				
ACENAPHTHENE	50000	U	32.5	ug/L	70.0	47	122				
ACENAPHTHYLENE	50010	U	32	ug/L	69.0	41	130				
ALPHA-TERPINEOL	50040	U	50.5	ug/L	108.0	38	113				
ANILINE	50005	U	33	ug/L	71.0	51	105				
ANTHRACENE	50010	U	28.4	ug/L	61.0	57	123				
AZOBENZENE	50005	U	29	ug/L	62.0	61	116				
BENZIDINE	50110	U	4.9	ug/L	10.0	25	111			M2	
BENZO(A)ANTHRACENE	50005	U	24.6	ug/L	53.0	58	125			M2	
BENZO(A)PYRENE	50005	U	22.6	ug/L	48.0	54	128			M2	
BENZO(B)FLUORANTHENE	50015	U	23.3	ug/L	50.0	53	131			M2	
BENZO(G,H,I)PERYLENE	50005	U	22.7	ug/L	49.0	50	134			M2	
BENZO(K)FLUORANTHENE	50005	U	22.5	ug/L	48.0	57	129			M2	
BENZOIC ACID	80000	U	58	ug/L	78.0	0	125				
BENZYL ALCOHOL	50005	U	40	ug/L	86.0	31	112				
BIS(2-CHLOROETHOXY)METHANE	50005	U	36.9	ug/L	79.0	48	120				
BIS(2-CHLOROETHYL) ETHER	50020	U	34.3	ug/L	74.0	43	118				

Ouray Silver Mines

ACZ Project ID: **L65443**

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.

BIS(2-CHLOROISOPROPYL) ETHER	50005	U	33.5	ug/L	72.0	37	130	
BIS(2-ETHYLHEXYL) PHTHALATE	50020	5.2	29.3	ug/L	52.0	55	135	M2
BUTYL BENZYL PHTHALATE	50005	U	29.4	ug/L	63.0	60	122	
CHRYSENE	50005	U	24.5	ug/L	53.0	59	127	M2
DIBENZO(A,H)ANTHRACENE	50010	U	23	ug/L	49.0	51	134	M2
DIBENZOFURAN	50005	U	33.3	ug/L	71.0	53	118	
DIETHYLPHTHALATE	50010	U	40.6	ug/L	87.0	56	125	
DIMETHYL PHTHALATE	50005	U	42.7	ug/L	92.0	62	132	
DI-N-BUTYL PHTHALATE	50015	2.1	30.5	ug/L	61.0	51	140	
DI-N-OCTYL PHTHALATE	50000	U	28	ug/L	60.0	67	124	M2
FLUORANTHENE	50005	U	27.1	ug/L	58.0	57	128	
FLUORENE	50005	U	33.5	ug/L	72.0	52	124	
HEXACHLOROBENZENE	50010	U	25.5	ug/L	55.0	53	125	
HEXACHLOROBUTADIENE	50000	U	26.3	ug/L	56.0	22	124	
HEXACHLOROCYCLOPENTADIENE	50005	U	9.6	ug/L	21.0	8	65	
HEXACHLOROETHANE	50020	U	25.6	ug/L	55.0	21	115	
INDENO(1,2,3-CD)PYRENE	50015	U	22.5	ug/L	48.0	52	134	M2
ISOPHORONE	50015	U	42.3	ug/L	91.0	42	124	
NAPHTHALENE	50020	U	33.1	ug/L	71.0	40	121	
NITROBENZENE	50005	U	77.1	ug/L	165.0	45	121	M1
N-NITROSODIMETHYLAMINE	50010	U	33	ug/L	71.0	33	92	
N-NITROSODI-N-PROPYLAMINE	50010	U	37.9	ug/L	81.0	49	119	
N-NITROSODIPHENYLAMINE	50010	U	22.5	ug/L	48.0	51	123	M2
PENTACHLOROPHENOL	50020	U	33	ug/L	71.0	35	138	
PHENANTHRENE	50005	U	30.6	ug/L	66.0	59	120	
PHENOL	50005	U	34.7	ug/L	74.0	0	115	
PYRENE	50005	U	29.2	ug/L	63.0	57	126	
PYRIDINE	50020	U	26.2	ug/L	56.0	44	86	
2,4,6-TRIBROMOPHENOL (surr)				%	86.4	50	125	
2-FLUOROBIPHENYL (surr)				%	69.7	44	119	
2-FLUOROPHENOL (surr)				%	65.6	54	100	
NITROBENZENE-D5 (surr)				%	77.2	44	120	
PHENOL-D6 (surr)				%	72.1	47	113	
TERPHENYL-D14 (surr)				%	52.0	50	134	

LCSW	Sample ID: WG518607LCSW			PCN/SCN: OPMBNA210414-				Analyzed: 05/04/21 11:36		
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
1,2,4-TRICHLOROBENZENE	50015		31.3	ug/L	63.0	29	116			
1,2-DICHLOROBENZENE	50000		28.3	ug/L	57.0	32	111			
1,3-DICHLOROBENZENE	50015		25.8	ug/L	52.0	28	110			
1,4-DICHLOROBENZENE	50005		26.1	ug/L	52.0	29	112			
1,4-DIOXANE	50050		34.3	ug/L	69.0	55	84			
2,4,5-TRICHLOROPHENOL	50005		49	ug/L	98.0	53	123			
2,4,6-TRICHLOROPHENOL	50015		50.5	ug/L	101.0	43	140			
2,4-DICHLOROPHENOL	50005		46.5	ug/L	93.0	47	121			
2,4-DIMETHYLPHENOL	50005		46.2	ug/L	92.0	31	124			
2,4-DINITROPHENOL	50020		54	ug/L	108.0	23	143			
2,4-DINITROTOLUENE	50005		53.8	ug/L	108.0	57	128			
2,6-DINITROTOLUENE	50010		51	ug/L	102.0	57	124			

Ouray Silver Mines

ACZ Project ID: **L65443**

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2-CHLORONAPHTHALENE	50015	43	ug/L	86.0	40	116
2-CHLOROPHENOL	50005	41	ug/L	82.0	38	117
2-METHYLNAPHTHALENE	50005	40.3	ug/L	81.0	40	121
2-METHYLPHENOL	50010	43	ug/L	86.0	40	110
2-NITROANILINE	50010	54	ug/L	108.0	55	127
2-NITROPHENOL	50005	44.2	ug/L	88.0	47	123
3- & 4-METHYLPHENOL	50025	44	ug/L	88.0	29	110
3,3-DICHLOROBENZIDINE	50120	48	ug/L	96.0	27	129
3-NITROANILINE	50010	53	ug/L	106.0	41	128
4,6-DINITRO-2-METHYLPHENOL	50010	56	ug/L	112.0	44	137
4-BROMOPHENYL PHENYL ETHER	50005	50.3	ug/L	101.0	55	124
4-CHLORO-3-METHYLPHENOL	50020	52.4	ug/L	105.0	52	119
4-CHLOROANILINE	50005	47.5	ug/L	95.0	33	117
4-CHLOROPHENYL PHENYL ETHER	50005	49	ug/L	98.0	53	121
4-NITROANILINE	50005	54	ug/L	108.0	35	120
4-NITROPHENOL	50025	52	ug/L	104.0	38	142
ACENAPHTHENE	50000	46.7	ug/L	93.0	47	122
ACENAPHTHYLENE	50010	46.3	ug/L	93.0	41	130
ALPHA-TERPINEOL	50040	48.8	ug/L	98.0	38	113
ANILINE	50005	42	ug/L	84.0	51	105
ANTHRACENE	50010	52.6	ug/L	105.0	57	123
AZOBENZENE	50005	50	ug/L	100.0	61	116
BENZIDINE	50110	39	ug/L	78.0	25	111
BENZO(A)ANTHRACENE	50005	49.4	ug/L	99.0	58	125
BENZO(A)PYRENE	50005	52	ug/L	104.0	54	128
BENZO(B)FLUORANTHENE	50015	50.1	ug/L	100.0	53	131
BENZO(G,H,I)PERYLENE	50005	48.7	ug/L	97.0	50	134
BENZO(K)FLUORANTHENE	50005	50.9	ug/L	102.0	57	129
BENZOIC ACID	80000	58	ug/L	73.0	0	125
BENZYL ALCOHOL	50005	46.5	ug/L	93.0	31	112
BIS(2-CHLOROETHOXY)METHANE	50005	43.7	ug/L	87.0	48	120
BIS(2-CHLOROETHYL) ETHER	50020	40.5	ug/L	81.0	43	118
BIS(2-CHLOROISOPROPYL) ETHER	50005	40.3	ug/L	81.0	37	130
BIS(2-ETHYLHEXYL) PHTHALATE	50020	52.7	ug/L	105.0	55	135
BUTYL BENZYL PHTHALATE	50005	52.8	ug/L	106.0	60	122
CHRYSENE	50005	48.9	ug/L	98.0	59	127
DIBENZO(A,H)ANTHRACENE	50010	48.7	ug/L	97.0	51	134
DIBENZOFURAN	50005	47.8	ug/L	96.0	53	118
DIETHYLPHTHALATE	50010	54.3	ug/L	109.0	56	125
DIMETHYL PHTHALATE	50005	52.8	ug/L	106.0	62	132
DI-N-BUTYL PHTHALATE	50015	51.9	ug/L	104.0	51	140
DI-N-OCTYL PHTHALATE	50000	54.4	ug/L	109.0	67	124
FLUORANTHENE	50005	52.8	ug/L	106.0	57	128
FLUORENE	50005	50.1	ug/L	100.0	52	124
HEXACHLOROBENZENE	50010	49.9	ug/L	100.0	53	125
HEXACHLOROBUTADIENE	50000	27.4	ug/L	55.0	22	124
HEXACHLOROCYCLOPENTADIENE	50005	11.3	ug/L	23.0	8	65
HEXACHLOROETHANE	50020	23	ug/L	46.0	21	115
INDENO(1,2,3-CD)PYRENE	50015	47.7	ug/L	95.0	52	134

Ouray Silver Mines

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ISOPHORONE	50015	49.3	ug/L	99.0	42	124
NAPHTHALENE	50020	36.5	ug/L	73.0	40	121
NITROBENZENE	50005	45.1	ug/L	90.0	45	121
N-NITROSODIMETHYLAMINE	50010	39	ug/L	78.0	33	92
N-NITROSODI-N-PROPYLAMINE	50010	45.6	ug/L	91.0	49	119
N-NITROSODIPHENYLAMINE	50010	47.3	ug/L	95.0	51	123
PENTACHLOROPHENOL	50020	48	ug/L	96.0	35	138
PHENANTHRENE	50005	50.5	ug/L	101.0	59	120
PHENOL	50005	42.8	ug/L	86.0	0	115
PYRENE	50005	50.9	ug/L	102.0	57	126
PYRIDINE	50020	31.4	ug/L	63.0	44	86
2,4,6-TRIBROMOPHENOL (surr)			%	97.0	50	125
2-FLUOROBIPHENYL (surr)			%	86.9	44	119
2-FLUOROPHENOL (surr)			%	74.3	54	100
NITROBENZENE-D5 (surr)			%	85.6	44	120
PHENOL-D6 (surr)			%	80.3	47	113
TERPHENYL-D14 (surr)			%	98.7	50	134

LCSWD	Sample ID: WG518607LCSWD			PCN/SCN: OPMBNA210414-				Analyzed: 05/04/21 12:09		
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
1,2,4-TRICHLOROBENZENE	50015		28.2	ug/L	56.0	29	116	10	20	
1,2-DICHLOROBENZENE	50000		24.8	ug/L	50.0	32	111	13	20	
1,3-DICHLOROBENZENE	50015		22.5	ug/L	45.0	28	110	14	20	
1,4-DICHLOROBENZENE	50005		23	ug/L	46.0	29	112	13	20	
1,4-DIOXANE	50050		29.9	ug/L	60.0	55	84	14	20	
2,4,5-TRICHLOROPHENOL	50005		42	ug/L	84.0	53	123	15	20	
2,4,6-TRICHLOROPHENOL	50015		43.2	ug/L	86.0	43	140	16	20	
2,4-DICHLOROPHENOL	50005		40.7	ug/L	81.0	47	121	13	20	
2,4-DIMETHYLPHENOL	50005		37.1	ug/L	74.0	31	124	22	20	R1
2,4-DINITROPHENOL	50020		45	ug/L	90.0	23	143	18	20	
2,4-DINITROTOLUENE	50005		45.3	ug/L	91.0	57	128	17	20	
2,6-DINITROTOLUENE	50010		43	ug/L	86.0	57	124	17	20	
2-CHLORONAPHTHALENE	50015		36.7	ug/L	73.0	40	116	16	20	
2-CHLOROPHENOL	50005		36.7	ug/L	73.0	38	117	11	20	
2-METHYLNAPHTHALENE	50005		36.5	ug/L	73.0	40	121	10	20	
2-METHYLPHENOL	50010		37.7	ug/L	75.0	40	110	13	20	
2-NITROANILINE	50010		45	ug/L	90.0	55	127	18	20	
2-NITROPHENOL	50005		38.5	ug/L	77.0	47	123	14	20	
3- & 4-METHYLPHENOL	50025		39	ug/L	78.0	29	110	12	20	
3,3-DICHLOROBENZIDINE	50120		U	ug/L	0.0	27	129		34	N1
3-NITROANILINE	50010		44	ug/L	88.0	41	128	19	20	
4,6-DINITRO-2-METHYLPHENOL	50010		47	ug/L	94.0	44	137	17	20	
4-BROMOPHENYL PHENYL ETHER	50005		44.6	ug/L	89.0	55	124	12	20	
4-CHLORO-3-METHYLPHENOL	50020		46.1	ug/L	92.0	52	119	13	20	
4-CHLOROANILINE	50005		36.7	ug/L	73.0	33	117	26	20	R1
4-CHLOROPHENYL PHENYL ETHER	50005		42.1	ug/L	84.0	53	121	15	20	
4-NITROANILINE	50005		45	ug/L	90.0	35	120	18	20	
4-NITROPHENOL	50025		44	ug/L	88.0	38	142	17	20	
ACENAPHTHENE	50000		39.5	ug/L	79.0	47	122	17	20	

Ouray Silver Mines

ACZ Project ID: **L65443**

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.

ACENAPHTHYLENE	50010	40.3	ug/L	81.0	41	130	14	20	
ALPHA-TERPINEOL	50040	54.8	ug/L	110.0	38	113	12	20	
ANILINE	50005	37	ug/L	74.0	51	105	13	20	
ANTHRACENE	50010	46	ug/L	92.0	57	123	13	20	
AZOBENZENE	50005	44	ug/L	88.0	61	116	13	20	
BENZIDINE	50110	43.4	ug/L	87.0	25	111	11	34	
BENZO(A)ANTHRACENE	50005	42.8	ug/L	86.0	58	125	14	20	
BENZO(A)PYRENE	50005	44.8	ug/L	90.0	54	128	15	20	
BENZO(B)FLUORANTHENE	50015	43.6	ug/L	87.0	53	131	14	20	
BENZO(G,H,I)PERYLENE	50005	42	ug/L	84.0	50	134	15	20	
BENZO(K)FLUORANTHENE	50005	44.1	ug/L	88.0	57	129	14	20	
BENZOIC ACID	80000	41	ug/L	51.0	0	125	34	20	R1
BENZYL ALCOHOL	50005	40.7	ug/L	81.0	31	112	13	20	
BIS(2-CHLOROETHOXY)METHANE	50005	39.4	ug/L	79.0	48	120	10	20	
BIS(2-CHLOROETHYL) ETHER	50020	36.1	ug/L	72.0	43	118	11	20	
BIS(2-CHLOROISOPROPYL) ETHER	50005	35.4	ug/L	71.0	37	130	13	20	
BIS(2-ETHYLHEXYL) PHTHALATE	50020	46.3	ug/L	93.0	55	135	13	20	
BUTYL BENZYL PHTHALATE	50005	46.8	ug/L	94.0	60	122	12	20	
CHRYSENE	50005	42.5	ug/L	85.0	59	127	14	20	
DIBENZO(A,H)ANTHRACENE	50010	41.7	ug/L	83.0	51	134	15	20	
DIBENZOFURAN	50005	41.4	ug/L	83.0	53	118	14	20	
DIETHYLPHTHALATE	50010	47	ug/L	94.0	56	125	14	20	
DIMETHYL PHTHALATE	50005	45.6	ug/L	91.0	62	132	15	20	
DI-N-BUTYL PHTHALATE	50015	46.6	ug/L	93.0	51	140	11	20	
DI-N-OCTYL PHTHALATE	50000	48.4	ug/L	97.0	67	124	12	20	
FLUORANTHENE	50005	46.3	ug/L	93.0	57	128	13	20	
FLUORENE	50005	43.3	ug/L	87.0	52	124	15	20	
HEXACHLOROBENZENE	50010	43.2	ug/L	86.0	53	125	14	20	
HEXACHLOROBUTADIENE	50000	24.6	ug/L	49.0	22	124	11	20	
HEXACHLOROCYCLOPENTADIENE	50005	11.6	ug/L	23.0	8	65	3	39	
HEXACHLOROETHANE	50020	20.6	ug/L	41.0	21	115	11	20	
INDENO(1,2,3-CD)PYRENE	50015	40.8	ug/L	82.0	52	134	16	20	
ISOPHORONE	50015	44	ug/L	88.0	42	124	11	20	
NAPHTHALENE	50020	32	ug/L	64.0	40	121	13	20	
NITROBENZENE	50005	39.8	ug/L	80.0	45	121	12	20	
N-NITROSODIMETHYLAMINE	50010	35	ug/L	70.0	33	92	11	20	
N-NITROSODI-N-PROPYLAMINE	50010	40.6	ug/L	81.0	49	119	12	20	
N-NITROSODIPHENYLAMINE	50010	42.3	ug/L	85.0	51	123	11	20	
PENTACHLOROPHENOL	50020	43	ug/L	86.0	35	138	11	20	
PHENANTHRENE	50005	44.7	ug/L	89.0	59	120	12	20	
PHENOL	50005	36.4	ug/L	73.0	0	115	16	20	
PYRENE	50005	44.3	ug/L	89.0	57	126	14	20	
PYRIDINE	50020	32.1	ug/L	64.0	44	86	2	20	
2,4,6-TRIBROMOPHENOL (surr)			%	86.4	50	125			
2-FLUOROBIPHENYL (surr)			%	73.7	44	119			
2-FLUOROPHENOL (surr)			%	64.1	54	100			
NITROBENZENE-D5 (surr)			%	75.0	44	120			
PHENOL-D6 (surr)			%	69.4	47	113			
TERPHENYL-D14 (surr)			%	84.8	50	134			

Ouray Silver MinesACZ Project ID: **L65443**

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.

Sample ID: WG518607PBW							Analyzed:		05/04/21 13:15	
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
1,2,4-TRICHLOROBENZENE			U	ug/L		-10	10			
1,2-DICHLOROBENZENE			U	ug/L		-10	10			
1,3-DICHLOROBENZENE			U	ug/L		-10	10			
1,4-DICHLOROBENZENE			U	ug/L		-10	10			
1,4-DIOXANE			U	ug/L		-10	10			
2,4,5-TRICHLOROPHENOL			U	ug/L		-50	50			
2,4,6-TRICHLOROPHENOL			U	ug/L		-10	10			
2,4-DICHLOROPHENOL			U	ug/L		-10	10			
2,4-DIMETHYLPHENOL			U	ug/L		-20	20			
2,4-DINITROPHENOL			U	ug/L		-50	50			
2,4-DINITROTOLUENE			U	ug/L		-10	10			
2,6-DINITROTOLUENE			U	ug/L		-50	50			
2-CHLORONAPHTHALENE			U	ug/L		-10	10			
2-CHLOROPHENOL			U	ug/L		-10	10			
2-METHYLNAPHTHALENE			U	ug/L		-10	10			
2-METHYLPHENOL			U	ug/L		-10	10			
2-NITROANILINE			U	ug/L		-50	50			
2-NITROPHENOL			U	ug/L		-20	20			
3- & 4-METHYLPHENOL			U	ug/L		-20	20			
3,3-DICHLOROBENZIDINE			U	ug/L		-50	50			
3-NITROANILINE			U	ug/L		-50	50			
4,6-DINITRO-2-METHYLPHENOL			U	ug/L		-50	50			
4-BROMOPHENYL PHENYL ETHER			U	ug/L		-10	10			
4-CHLORO-3-METHYLPHENOL			U	ug/L		-10	10			
4-CHLOROANILINE			U	ug/L		-10	10			
4-CHLOROPHENYL PHENYL ETHER			U	ug/L		-10	10			
4-NITROANILINE			U	ug/L		-50	50			
4-NITROPHENOL			U	ug/L		-50	50			
ACENAPHTHENE			U	ug/L		-10	10			
ACENAPHTHYLENE			U	ug/L		-10	10			
ALPHA-TERPINEOL			U	ug/L		-10	10			
ANILINE			U	ug/L		-50	50			
ANTHRACENE			U	ug/L		-10	10			
AZOBENZENE			U	ug/L		-50	50			
BENZIDINE			U	ug/L		-20	20			
BENZO(A)ANTHRACENE			U	ug/L		-10	10			
BENZO(A)PYRENE			U	ug/L		-10	10			
BENZO(B)FLUORANTHENE			U	ug/L		-10	10			
BENZO(G,H,I)PERYLENE			U	ug/L		-10	10			
BENZO(K)FLUORANTHENE			U	ug/L		-10	10			
BENZOIC ACID			U	ug/L		-50	50			
BENZYL ALCOHOL			U	ug/L		-10	10			
BIS(2-CHLOROETHOXY)METHANE			U	ug/L		-10	10			
BIS(2-CHLOROETHYL) ETHER			U	ug/L		-10	10			
BIS(2-CHLOROISOPROPYL) ETHER			U	ug/L		-10	10			
BIS(2-ETHYLHEXYL) PHTHALATE			U	ug/L		-20	20			

Ouray Silver MinesACZ Project ID: **L65443**

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BUTYL BENZYL PHTHALATE	U	ug/L	-10	10	
CHRYSENE	U	ug/L	-10	10	
DIBENZO(A,H)ANTHRACENE	U	ug/L	-10	10	
DIBENZOFURAN	U	ug/L	-10	10	
DIETHYLPHTHALATE	U	ug/L	-10	10	
DIMETHYL PHTHALATE	U	ug/L	-10	10	
DI-N-BUTYL PHTHALATE	U	ug/L	-10	10	
DI-N-OCTYL PHTHALATE	U	ug/L	-10	10	
FLUORANTHENE	U	ug/L	-10	10	
FLUORENE	U	ug/L	-10	10	
HEXACHLOROBENZENE	U	ug/L	-10	10	
HEXACHLOROBUTADIENE	U	ug/L	-10	10	
HEXACHLOROCYCLOPENTADIENE	U	ug/L	-20	20	
HEXACHLOROETHANE	U	ug/L	-10	10	
INDENO(1,2,3-CD)PYRENE	U	ug/L	-10	10	
ISOPHORONE	U	ug/L	-10	10	
NAPHTHALENE	U	ug/L	-10	10	
NITROBENZENE	U	ug/L	-10	10	
N-NITROSODIMETHYLAMINE	U	ug/L	-50	50	
N-NITROSODI-N-PROPYLAMINE	U	ug/L	-10	10	
N-NITROSODIPHENYLAMINE	U	ug/L	-10	10	
PENTACHLOROPHENOL	U	ug/L	-50	50	
PHENANTHRENE	U	ug/L	-10	10	
PHENOL	U	ug/L	-20	20	
PYRENE	U	ug/L	-10	10	
PYRIDINE	U	ug/L	-10	10	
2,4,6-TRIBROMOPHENOL (surr)		%	84.2	50	125
2-FLUOROBIPHENYL (surr)		%	70.5	44	119
2-FLUOROPHENOL (surr)		%	68.1	54	100
NITROBENZENE-D5 (surr)		%	76.4	44	120
PHENOL-D6 (surr)		%	73.1	47	113
TERPHENYL-D14 (surr)		%	97.4	50	134

Ouray Silver Mines

ACZ Project ID: **L65443**

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Volatile Organics by GC/MS

M8260C/D GC/MS

WG517626

DUP	Sample ID: L65290-02DUP						Analyzed: 04/26/21 15:39			
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
1,1,1,2-TETRACHLOROETHANE			U	ug/L				0	20	RA
1,1,1-TRICHLOROETHANE			U	ug/L				0	20	RA
1,1,2,2-TETRACHLOROETHANE			U	ug/L				0	20	RA
1,1,2-TRICHLOROETHANE			U	ug/L				0	20	RA
1,1-DICHLOROETHANE			U	ug/L				0	20	RA
1,1-DICHLOROETHENE			U	ug/L				0	20	RA
1,1-DICHLOROPROPENE			U	ug/L				0	20	RA
1,2,3-TRICHLOROBENZENE			U	ug/L				0	20	RA
1,2,3-TRICHLOROPROPANE			U	ug/L				0	20	RA
1,2,4-TRICHLOROBENZENE			U	ug/L				0	20	RA
1,2,4-TRIMETHYLBENZENE			U	ug/L				0	20	RA
1,2-DIBROMO-3-CHLOROPROPANE			U	ug/L				0	20	RA
1,2-DIBROMOETHANE			U	ug/L				0	20	RA
1,2-DICHLOROBENZENE			U	ug/L				0	20	RA
1,2-DICHLOROETHANE			U	ug/L				0	20	RA
1,2-DICHLOROPROPANE			U	ug/L				0	20	RA
1,3,5-TRIMETHYLBENZENE			U	ug/L				0	20	RA
1,3-DICHLOROBENZENE			U	ug/L				0	20	RA
1,3-DICHLOROPROPANE			U	ug/L				0	20	RA
1,4-DICHLOROBENZENE			U	ug/L				0	20	RA
2,2-DICHLOROPROPANE			U	ug/L				0	20	RA
2-BUTANONE			U	ug/L				0	20	RA
2-CHLOROTOLUENE			U	ug/L				0	20	RA
2-HEXANONE			U	ug/L				0	20	RA
4-CHLOROTOLUENE			U	ug/L				0	20	RA
4-ISOPROPYLTOLUENE			U	ug/L				0	20	RA
4-METHYL-2-PENTANONE			U	ug/L				0	20	RA
ACETONE			U	ug/L				0	20	RA
ACRYLONITRILE			U	ug/L				0	20	RA
BENZENE		U	U	ug/L				0	20	RA
BROMOBENZENE			U	ug/L				0	20	RA
BROMOCHLOROMETHANE			U	ug/L				0	20	RA
BROMODICHLOROMETHANE			U	ug/L				0	20	RA
BROMOFORM			U	ug/L				0	20	RA
BROMOMETHANE			U	ug/L				0	20	RA
CARBON DISULFIDE		U	U	ug/L				0	20	RA
CARBON TETRACHLORIDE			U	ug/L				0	20	RA
CHLOROBENZENE			U	ug/L				0	20	RA
CHLOROETHANE			U	ug/L				0	20	RA
CHLOROFORM			U	ug/L				0	20	RA
CHLOROMETHANE			U	ug/L				0	20	RA
CIS-1,2-DICHLOROETHENE			U	ug/L				0	20	RA
CIS-1,3-DICHLOROPROPENE			U	ug/L				0	20	RA
DIBROMOCHLOROMETHANE			U	ug/L				0	20	RA

Ouray Silver Mines

ACZ Project ID: **L65443**

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DIBROMOMETHANE		U	ug/L	0	20	RA
DICHLORODIFLUOROMETHANE		U	ug/L	0	20	RA
ETHYLBENZENE	U	U	ug/L	0	20	RA
HEXACHLOROBUTADIENE		U	ug/L	0	20	RA
ISOPROPYLBENZENE		U	ug/L	0	20	RA
M P XYLENE	U	U	ug/L	0	20	RA
METHYL TERT BUTYL ETHER		U	ug/L	0	20	RA
METHYLENE CHLORIDE		U	ug/L	0	20	RA
NAPHTHALENE		U	ug/L	0	20	RA
N-BUTYLBENZENE		U	ug/L	0	20	RA
N-PROPYLBENZENE		U	ug/L	0	20	RA
O XYLENE	U	U	ug/L	0	20	RA
SEC-BUTYLBENZENE		U	ug/L	0	20	RA
STYRENE		U	ug/L	0	20	RA
TERT-BUTYLBENZENE		U	ug/L	0	20	RA
TETRACHLOROETHENE		U	ug/L	0	20	RA
TOLUENE	U	U	ug/L	0	20	RA
TRANS-1,2-DICHLOROETHENE		U	ug/L	0	20	RA
TRANS-1,3-DICHLOROPROPENE		U	ug/L	0	20	RA
TRICHLOROETHENE		U	ug/L	0	20	RA
TRICHLOROFLUOROMETHANE		U	ug/L	0	20	RA
VINYL ACETATE		U	ug/L	0	20	RA
VINYL CHLORIDE		U	ug/L	0	20	RA
BROMOFLUOROBENZENE (surr)			%	104.2	70	130
DIBROMOFLUOROMETHANE (surr)			%	110.7	70	130
TOLUENE-D8 (surr)			%	94.4	70	130

AS	Sample ID: L65290-04AS		PCN/SCN: V210413-2-CCV					Analyzed:		04/26/21 18:03	
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual	
1,1,1,2-TETRACHLOROETHANE	24.7		26.81	ug/L	108.0	70	130				
1,1,1-TRICHLOROETHANE	25.1		34.3	ug/L	137.0	70	130			M1	
1,1,2,2-TETRACHLOROETHANE	25.3		28.255	ug/L	112.0	70	130				
1,1,2-TRICHLOROETHANE	24.9		25.82	ug/L	104.0	70	130				
1,1-DICHLOROETHANE	25		34.3	ug/L	137.0	70	130			M1	
1,1-DICHLOROETHENE	25		41.05	ug/L	164.0	70	130			M1	
1,1-DICHLOROPROPENE	25		33.76	ug/L	135.0	70	130			M1	
1,2,3-TRICHLOROBENZENE	25		25.7	ug/L	103.0	70	130				
1,2,3-TRICHLOROPROPANE	25		26.07	ug/L	104.0	70	130				
1,2,4-TRICHLOROBENZENE	25		26.7	ug/L	107.0	70	130				
1,2,4-TRIMETHYLBENZENE	25		27.56	ug/L	110.0	70	130				
1,2-DIBROMO-3-CHLOROPROPANE	25.1		28.98	ug/L	116.0	70	130				
1,2-DIBROMOETHANE	25.1		25.323	ug/L	101.0	70	130				
1,2-DICHLOROBENZENE	25		25.77	ug/L	103.0	70	130				
1,2-DICHLOROETHANE	25		35.74	ug/L	143.0	70	130			M1	
1,2-DICHLOROPROPANE	25		31.92	ug/L	128.0	70	130				
1,3,5-TRIMETHYLBENZENE	25		28.02	ug/L	112.0	70	130				
1,3-DICHLOROBENZENE	25.1		25.62	ug/L	102.0	70	130				
1,3-DICHLOROPROPANE	25		27.26	ug/L	109.0	70	130				
1,4-DICHLOROBENZENE	25.1		25.77	ug/L	103.0	70	130				

Ouray Silver Mines

ACZ Project ID: **L65443**

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.

2,2-DICHLOROPROPANE	25		36.91	ug/L	148.0	70	130	M1
2-BUTANONE	50		79.81	ug/L	160.0	70	130	VB
2-CHLOROTOLUENE	24.9		28.18	ug/L	113.0	70	130	
2-HEXANONE	50.2		73.68	ug/L	147.0	70	130	M1
4-CHLOROTOLUENE	25.1		28.31	ug/L	113.0	70	130	
4-ISOPROPYLTOLUENE	25		29.3	ug/L	117.0	70	130	
4-METHYL-2-PENTANONE	50.1		79.11	ug/L	158.0	70	130	VB
ACETONE	50		81	ug/L	156.0	70	130	VB
ACRYLONITRILE	24.9		39.143	ug/L	157.0	70	130	VB
BENZENE	24.9	U	31.08	ug/L	125.0	70	130	
BROMOBENZENE	25		27.11	ug/L	108.0	70	130	
BROMOCHLOROMETHANE	25		40.45	ug/L	162.0	70	130	VB
BROMODICHLOROMETHANE	24.9		29.38	ug/L	118.0	70	130	
BROMOFORM	24.9		27.52	ug/L	111.0	70	130	
BROMOMETHANE	24.9		31.42	ug/L	126.0	70	130	
CARBON DISULFIDE	25	U	35	ug/L	140.0	70	130	M1
CARBON TETRACHLORIDE	25		36.92	ug/L	148.0	70	130	M1
CHLOROBENZENE	25		27.53	ug/L	110.0	70	130	
CHLOROETHANE	24.8		35.75	ug/L	144.0	70	130	M1
CHLOROFORM	24.9		31.64	ug/L	127.0	70	130	
CHLOROMETHANE	25.1		42.32	ug/L	169.0	70	130	VB
CIS-1,2-DICHLOROETHENE	24.1		36.67	ug/L	152.0	70	130	M1
CIS-1,3-DICHLOROPROPENE	25		29.94	ug/L	120.0	70	130	
DIBROMOCHLOROMETHANE	25.3		26.44	ug/L	105.0	70	130	
DIBROMOMETHANE	25		29.26	ug/L	117.0	70	130	
DICHLORODIFLUOROMETHANE	25		37.53	ug/L	150.0	70	130	M1
ETHYLBENZENE	25	U	28.91	ug/L	116.0	70	130	
HEXACHLOROBUTADIENE	25		28.8	ug/L	115.0	70	130	
ISOPROPYLBENZENE	25		28.57	ug/L	114.0	70	130	
M P XYLENE	49.9	U	57.1	ug/L	114.0	70	130	
METHYL TERT BUTYL ETHER	25		30.66	ug/L	123.0	70	130	
METHYLENE CHLORIDE	25		40.04	ug/L	160.0	70	130	VB
NAPHTHALENE	25		27.1	ug/L	108.0	70	130	
N-BUTYLBENZENE	25.1		31.02	ug/L	124.0	70	130	
N-PROPYLBENZENE	25		30.05	ug/L	120.0	70	130	
O XYLENE	25	U	27.58	ug/L	110.0	70	130	
SEC-BUTYLBENZENE	25		30.03	ug/L	120.0	70	130	
STYRENE	25		28.07	ug/L	112.0	70	130	
TERT-BUTYLBENZENE	25		29.61	ug/L	118.0	70	130	
TETRACHLOROETHENE	25.1		28.28	ug/L	113.0	70	130	
TOLUENE	24.9	U	27.8	ug/L	112.0	70	130	
TRANS-1,2-DICHLOROETHENE	24.9		37.37	ug/L	150.0	70	130	M1
TRANS-1,3-DICHLOROPROPENE	25.1		26.58	ug/L	106.0	70	130	
TRICHLOROETHENE	24.8		30.09	ug/L	121.0	71	130	
TRICHLOROFLUOROMETHANE	24.9		39.13	ug/L	157.0	70	130	M1
VINYL ACETATE	25.2		48.63	ug/L	193.0	70	130	VB
VINYL CHLORIDE	25.1		40.611	ug/L	162.0	70	130	M1
BROMOFLUOROBENZENE (surr)				%	104.4	70	130	
DIBROMOFLUOROMETHANE (surr)				%	111.9	70	130	

Ouray Silver Mines

ACZ Project ID: **L65443**

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.

TOLUENE-D8 (surr) % 93.6 70 130

LCSW		Sample ID: WG517626LCSW		PCN/SCN: V210413-2-CCV			Analyzed: 04/26/21 12:16			
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
1,1,1,2-TETRACHLOROETHANE	24.7		23.36	ug/L	94.0	70	130			
1,1,1-TRICHLOROETHANE	25.1		24.6	ug/L	98.0	70	130			
1,1,2,2-TETRACHLOROETHANE	25.3		23.26	ug/L	92.0	70	130			
1,1,2-TRICHLOROETHANE	24.9		23.56	ug/L	95.0	70	130			
1,1-DICHLOROETHANE	25		28.16	ug/L	113.0	70	130			
1,1-DICHLOROETHENE	25		27.98	ug/L	112.0	70	130			
1,1-DICHLOROPROPENE	25		24.4	ug/L	98.0	70	130			
1,2,3-TRICHLOROBENZENE	25		23.1	ug/L	92.0	70	130			
1,2,3-TRICHLOROPROPANE	25		22.03	ug/L	88.0	70	130			
1,2,4-TRICHLOROBENZENE	25		23.4	ug/L	94.0	70	130			
1,2,4-TRIMETHYLBENZENE	25		22.39	ug/L	90.0	70	130			
1,2-DIBROMO-3-CHLOROPROPANE	25.1		26.83	ug/L	107.0	70	130			
1,2-DIBROMOETHANE	25.1		22.723	ug/L	90.0	70	130			
1,2-DICHLOROBENZENE	25		23.39	ug/L	94.0	70	130			
1,2-DICHLOROETHANE	25		31.02	ug/L	124.0	70	130			
1,2-DICHLOROPROPANE	25		27.53	ug/L	110.0	70	130			
1,3,5-TRIMETHYLBENZENE	25		21.43	ug/L	86.0	70	130			
1,3-DICHLOROBENZENE	25.1		22.01	ug/L	88.0	70	130			
1,3-DICHLOROPROPANE	25		24.17	ug/L	97.0	70	130			
1,4-DICHLOROBENZENE	25.1		22.82	ug/L	91.0	70	130			
2,2-DICHLOROPROPANE	25		27.94	ug/L	112.0	70	130			
2-BUTANONE	50		71.57	ug/L	143.0	70	130			VB
2-CHLOROTOLUENE	24.9		21.62	ug/L	87.0	70	130			
2-HEXANONE	50.2		65.48	ug/L	130.0	70	130			
4-CHLOROTOLUENE	25.1		22.12	ug/L	88.0	70	130			
4-ISOPROPYLTOLUENE	25		23.61	ug/L	94.0	70	130			
4-METHYL-2-PENTANONE	50.1		70	ug/L	140.0	70	130			VB
ACETONE	50		66.8	ug/L	134.0	70	130			VB
ACRYLONITRILE	24.9		35.495	ug/L	143.0	70	130			VB
BENZENE	24.9		25.61	ug/L	103.0	70	130			
BROMOBENZENE	25		20.96	ug/L	84.0	70	130			
BROMOCHLOROMETHANE	25		34.62	ug/L	138.0	70	130			VB
BROMODICHLOROMETHANE	24.9		26.21	ug/L	105.0	70	130			
BROMOFORM	24.9		24.12	ug/L	97.0	70	130			
BROMOMETHANE	24.9		26.2	ug/L	105.0	70	130			
CARBON DISULFIDE	25		25.02	ug/L	100.0	70	130			
CARBON TETRACHLORIDE	25		24.27	ug/L	97.0	70	130			
CHLOROBENZENE	25		23.61	ug/L	94.0	70	130			
CHLOROETHANE	24.8		27.29	ug/L	110.0	70	130			
CHLOROFORM	24.9		26.36	ug/L	106.0	70	130			
CHLOROMETHANE	25.1		33.23	ug/L	133.0	70	130			VB
CIS-1,2-DICHLOROETHENE	24.1		30.2	ug/L	125.0	70	130			
CIS-1,3-DICHLOROPROPENE	25		26.01	ug/L	104.0	70	130			
DIBROMOCHLOROMETHANE	25.3		23.83	ug/L	94.0	70	130			
DIBROMOMETHANE	25		26.284	ug/L	105.0	70	130			

Ouray Silver Mines

ACZ Project ID: **L65443**

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.

DICHLORODIFLUOROMETHANE	25	21.43	ug/L	86.0	70	130	
ETHYLBENZENE	25	23.91	ug/L	96.0	70	130	
HEXACHLOROBUTADIENE	25	22.6	ug/L	90.0	70	130	
ISOPROPYLBENZENE	25	22.89	ug/L	92.0	70	130	
M P XYLENE	49.9	47.5	ug/L	95.0	70	130	
METHYL TERT BUTYL ETHER	25	27.25	ug/L	109.0	70	130	
METHYLENE CHLORIDE	25	34.37	ug/L	137.0	70	130	VB
NAPHTHALENE	25	24	ug/L	96.0	70	130	
N-BUTYLBENZENE	25.1	26.26	ug/L	105.0	70	130	
N-PROPYLBENZENE	25	21.63	ug/L	87.0	70	130	
O XYLENE	25	23.69	ug/L	95.0	70	130	
SEC-BUTYLBENZENE	25	22.56	ug/L	90.0	70	130	
STYRENE	25	24.49	ug/L	98.0	70	130	
TERT-BUTYLBENZENE	25	21.78	ug/L	87.0	70	130	
TETRACHLOROETHENE	25.1	21.05	ug/L	84.0	70	130	
TOLUENE	24.9	23.71	ug/L	95.0	70	130	
TRANS-1,2-DICHLOROETHENE	24.9	28.88	ug/L	116.0	70	130	
TRANS-1,3-DICHLOROPROPENE	25.1	24.99	ug/L	100.0	70	130	
TRICHLOROETHENE	24.8	23.75	ug/L	96.0	71	130	
TRICHLOROFLUOROMETHANE	24.9	23.76	ug/L	95.0	70	130	
VINYL ACETATE	25.2	40.72	ug/L	162.0	70	130	VB
VINYL CHLORIDE	25.1	27.769	ug/L	111.0	70	130	
BROMOFLUOROBENZENE (surr)			%	104.9	70	130	
DIBROMOFLUOROMETHANE (surr)			%	111.3	70	130	
TOLUENE-D8 (surr)			%	94.1	70	130	

LCSWD	Sample ID: WG517626LCSWD			PCN/SCN: V210413-2-CCV			Analyzed: 04/26/21 12:45			
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
1,1,1,2-TETRACHLOROETHANE	24.7		24.43	ug/L	99.0	70	130	4	20	
1,1,1-TRICHLOROETHANE	25.1		25	ug/L	100.0	70	130	2	20	
1,1,2,2-TETRACHLOROETHANE	25.3		25.019	ug/L	99.0	70	130	7	20	
1,1,2-TRICHLOROETHANE	24.9		23.64	ug/L	95.0	70	130	0	20	
1,1-DICHLOROETHANE	25		29.53	ug/L	118.0	70	130	5	20	
1,1-DICHLOROETHENE	25		28.94	ug/L	116.0	70	130	3	20	
1,1-DICHLOROPROPENE	25		24.07	ug/L	96.0	70	130	1	20	
1,2,3-TRICHLOROBENZENE	25		24.1	ug/L	96.0	70	130	4	20	
1,2,3-TRICHLOROPROPANE	25		24.1	ug/L	96.0	70	130	9	20	
1,2,4-TRICHLOROBENZENE	25		24.1	ug/L	96.0	70	130	3	20	
1,2,4-TRIMETHYLBENZENE	25		24.02	ug/L	96.0	70	130	7	20	
1,2-DIBROMO-3-CHLOROPROPANE	25.1		25.58	ug/L	102.0	70	130	5	20	
1,2-DIBROMOETHANE	25.1		23.191	ug/L	92.0	70	130	2	20	
1,2-DICHLOROBENZENE	25		23.38	ug/L	93.0	70	130	0	20	
1,2-DICHLOROETHANE	25		32.28	ug/L	129.0	70	130	4	20	
1,2-DICHLOROPROPANE	25		28.79	ug/L	115.0	70	130	4	20	
1,3,5-TRIMETHYLBENZENE	25		23.76	ug/L	95.0	70	130	10	20	
1,3-DICHLOROBENZENE	25.1		23.31	ug/L	93.0	70	130	6	20	
1,3-DICHLOROPROPANE	25		24.86	ug/L	99.0	70	130	3	20	
1,4-DICHLOROBENZENE	25.1		23.34	ug/L	93.0	70	130	2	20	
2,2-DICHLOROPROPANE	25		28.47	ug/L	114.0	70	130	2	20	

Ouray Silver Mines

ACZ Project ID: **L65443**

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2-BUTANONE	50	69.9	ug/L	140.0	70	130	2	20	VB
2-CHLOROTOLUENE	24.9	25.09	ug/L	101.0	70	130	15	20	
2-HEXANONE	50.2	64.16	ug/L	128.0	70	130	2	20	
4-CHLOROTOLUENE	25.1	24.8	ug/L	99.0	70	130	11	20	
4-ISOPROPYLTOLUENE	25	23.67	ug/L	95.0	70	130	0	20	
4-METHYL-2-PENTANONE	50.1	68.89	ug/L	137.0	70	130	2	20	VB
ACETONE	50	70.1	ug/L	140.0	70	130	5	20	VB
ACRYLONITRILE	24.9	36.066	ug/L	145.0	70	130	2	20	VB
BENZENE	24.9	26.71	ug/L	107.0	70	130	4	20	
BROMOBENZENE	25	24.25	ug/L	97.0	70	130	15	20	
BROMOCHLOROMETHANE	25	35.96	ug/L	144.0	70	130	4	20	VB
BROMODICHLOROMETHANE	24.9	26.96	ug/L	108.0	70	130	3	20	
BROMOFORM	24.9	24.7	ug/L	99.0	70	130	2	20	
BROMOMETHANE	24.9	26.29	ug/L	106.0	70	130	0	20	
CARBON DISULFIDE	25	25.82	ug/L	103.0	70	130	3	20	
CARBON TETRACHLORIDE	25	24.88	ug/L	100.0	70	130	2	20	
CHLOROBENZENE	25	24.79	ug/L	99.0	70	130	5	20	
CHLOROETHANE	24.8	28.15	ug/L	114.0	70	130	3	20	
CHLOROFORM	24.9	27.58	ug/L	111.0	70	130	5	20	
CHLOROMETHANE	25.1	34.96	ug/L	140.0	70	130	5	20	VB
CIS-1,2-DICHLOROETHENE	24.1	31.47	ug/L	130.0	70	130	4	20	
CIS-1,3-DICHLOROPROPENE	25	27.6	ug/L	110.0	70	130	6	20	
DIBROMOCHLOROMETHANE	25.3	24.77	ug/L	98.0	70	130	4	20	
DIBROMOMETHANE	25	26.75	ug/L	107.0	70	130	2	20	
DICHLORODIFLUOROMETHANE	25	21.9	ug/L	88.0	70	130	2	20	
ETHYLBENZENE	25	24.88	ug/L	100.0	70	130	4	20	
HEXACHLOROBUTADIENE	25	23.5	ug/L	94.0	70	130	4	20	
ISOPROPYLBENZENE	25	23.35	ug/L	93.0	70	130	2	20	
M P XYLENE	49.9	50.03	ug/L	100.0	70	130	5	20	
METHYL TERT BUTYL ETHER	25	27.48	ug/L	110.0	70	130	1	20	
METHYLENE CHLORIDE	25	35.35	ug/L	141.0	70	130	3	20	VB
NAPHTHALENE	25	24.8	ug/L	99.0	70	130	3	20	
N-BUTYLBENZENE	25.1	24.71	ug/L	99.0	70	130	6	20	
N-PROPYLBENZENE	25	24.28	ug/L	97.0	70	130	12	20	
O XYLENE	25	24.98	ug/L	100.0	70	130	5	20	
SEC-BUTYLBENZENE	25	23.24	ug/L	93.0	70	130	3	20	
STYRENE	25	25.69	ug/L	103.0	70	130	5	20	
TERT-BUTYLBENZENE	25	23.25	ug/L	93.0	70	130	7	20	
TETRACHLOROETHENE	25.1	22.02	ug/L	88.0	70	130	5	20	
TOLUENE	24.9	24.68	ug/L	99.0	70	130	4	20	
TRANS-1,2-DICHLOROETHENE	24.9	30.81	ug/L	124.0	70	130	6	20	
TRANS-1,3-DICHLOROPROPENE	25.1	25.16	ug/L	100.0	70	130	1	20	
TRICHLOROETHENE	24.8	25.17	ug/L	101.0	71	130	6	20	
TRICHLOROFLUOROMETHANE	24.9	23.96	ug/L	96.0	70	130	1	20	
VINYL ACETATE	25.2	40.43	ug/L	161.0	70	130	1	20	VB
VINYL CHLORIDE	25.1	28.259	ug/L	113.0	70	130	2	20	
BROMOFLUOROBENZENE (surr)			%	105.3	70	130			
DIBROMOFLUOROMETHANE (surr)			%	109.7	70	130			
TOLUENE-D8 (surr)			%	94.2	70	130			

Ouray Silver Mines

ACZ Project ID: **L65443**

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.

Sample ID: WG517626PBW							Analyzed:		04/26/21 13:43	
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
1,1,1,2-TETRACHLOROETHANE			U	ug/L		-4	4			
1,1,1-TRICHLOROETHANE			U	ug/L		-10	10			
1,1,2,2-TETRACHLOROETHANE			U	ug/L		-3	3			
1,1,2-TRICHLOROETHANE			U	ug/L		-4	4			
1,1-DICHLOROETHANE			U	ug/L		-4	4			
1,1-DICHLOROETHENE			U	ug/L		-4	4			
1,1-DICHLOROPROPENE			U	ug/L		-4	4			
1,2,3-TRICHLOROBENZENE			U	ug/L		-4	4			
1,2,3-TRICHLOROPROPANE			U	ug/L		-4	4			
1,2,4-TRICHLOROBENZENE			U	ug/L		-4	4			
1,2,4-TRIMETHYLBENZENE			U	ug/L		-4	4			
1,2-DIBROMO-3-CHLOROPROPANE			U	ug/L		-4	4			
1,2-DIBROMOETHANE			U	ug/L		-4	4			
1,2-DICHLOROBENZENE			U	ug/L		-4	4			
1,2-DICHLOROETHANE			U	ug/L		-4	4			
1,2-DICHLOROPROPANE			U	ug/L		-4	4			
1,3,5-TRIMETHYLBENZENE			U	ug/L		-4	4			
1,3-DICHLOROBENZENE			U	ug/L		-4	4			
1,3-DICHLOROPROPANE			U	ug/L		-4	4			
1,4-DICHLOROBENZENE			U	ug/L		-4	4			
2,2-DICHLOROPROPANE			U	ug/L		-4	4			
2-BUTANONE			U	ug/L		-10	10			
2-CHLOROTOLUENE			U	ug/L		-4	4			
2-HEXANONE			U	ug/L		-10	10			
4-CHLOROTOLUENE			U	ug/L		-4	4			
4-ISOPROPYLTOLUENE			U	ug/L		-4	4			
4-METHYL-2-PENTANONE			U	ug/L		-10	10			
ACETONE			U	ug/L		-10	10			
ACRYLONITRILE			U	ug/L		-4	4			
BENZENE			U	ug/L		-4	4			
BROMOBENZENE			U	ug/L		-4	4			
BROMOCHLOROMETHANE			U	ug/L		-4	4			
BROMODICHLOROMETHANE			U	ug/L		-4	4			
BROMOFORM			U	ug/L		-4	4			
BROMOMETHANE			U	ug/L		-4	4			
CARBON DISULFIDE			U	ug/L		-4	4			
CARBON TETRACHLORIDE			U	ug/L		-10	10			
CHLOROBENZENE			U	ug/L		-4	4			
CHLOROETHANE			U	ug/L		-4	4			
CHLOROFORM			U	ug/L		-4	4			
CHLOROMETHANE			U	ug/L		-4	4			
CIS-1,2-DICHLOROETHENE			U	ug/L		-4	4			
CIS-1,3-DICHLOROPROPENE			U	ug/L		-4	4			
DIBROMOCHLOROMETHANE			U	ug/L		-4	4			
DIBROMOMETHANE			U	ug/L		-4	4			
DICHLORODIFLUOROMETHANE			U	ua/L		-5	5			

Ouray Silver MinesACZ Project ID: **L65443**

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.

ETHYLBENZENE	U	ug/L	-4	4
HEXACHLOROBUTADIENE	U	ug/L	-4	4
ISOPROPYLBENZENE	U	ug/L	-4	4
M P XYLENE	U	ug/L	-10	10
METHYL TERT BUTYL ETHER	U	ug/L	-4	4
METHYLENE CHLORIDE	U	ug/L	-4	4
NAPHTHALENE	U	ug/L	-4	4
N-BUTYLBENZENE	U	ug/L	-4	4
N-PROPYLBENZENE	U	ug/L	-4	4
O XYLENE	U	ug/L	-4	4
SEC-BUTYLBENZENE	U	ug/L	-4	4
STYRENE	U	ug/L	-4	4
TERT-BUTYLBENZENE	U	ug/L	-4	4
TETRACHLOROETHENE	U	ug/L	-4	4
TOLUENE	U	ug/L	-4	4
TRANS-1,2-DICHLOROETHENE	U	ug/L	-4	4
TRANS-1,3-DICHLOROPROPENE	U	ug/L	-3	3
TRICHLOROETHENE	U	ug/L	-5	5
TRICHLOROFLUOROMETHANE	U	ug/L	-4	4
VINYL ACETATE	U	ug/L	-4	4
VINYL CHLORIDE	U	ug/L	-4	4
BROMOFLUOROBENZENE (surr)		%	104.0	70
DIBROMOFLUOROMETHANE (surr)		%	107.6	70
TOLUENE-D8 (surr)		%	94.7	70

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65443-01	WG518736	2,4-Dimethylphenol	M8270D/E GC/MS	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.
		2-Nitroaniline	M8270D/E GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		3,3-Dichlorobenzidine	M8270D/E GC/MS	N1	See Case Narrative.
		4-Chloroaniline	M8270D/E GC/MS	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.
		4-Nitroaniline	M8270D/E GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Aniline	M8270D/E GC/MS	VC	CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [$< MDL$].
		Benzidine	M8270D/E GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Benzo(a)anthracene	M8270D/E GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Benzo(a)pyrene	M8270D/E GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Benzo(b)fluoranthene	M8270D/E GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Benzo(g,h,i)perylene	M8270D/E GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Benzo(k)fluoranthene	M8270D/E GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Benzoic Acid	M8270D/E GC/MS	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.
		Bis(2-ethylhexyl) phthalate	M8270D/E GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Chrysene	M8270D/E GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Dibenzo(a,h)anthracene	M8270D/E GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Di-n-octyl phthalate	M8270D/E GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Indeno(1,2,3-cd)pyrene	M8270D/E GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Nitrobenzene	M8270D/E GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
		N-Nitrosodiphenylamine	M8270D/E GC/MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
L65443-02	WG517626	1,1,1,2-Tetrachloroethane	M8260C/D GC/MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10x MDL$).
		1,1,1-Trichloroethane	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10x MDL$).
		1,1,2,2-Tetrachloroethane	M8260C/D GC/MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10x MDL$).
		1,1,2-Trichloroethane	M8260C/D GC/MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10x MDL$).
			M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
		1,1-Dichloroethane	M8260C/D GC/MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10x MDL$).
			M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
		1,1-Dichloroethene	M8260C/D GC/MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation ($< 10x MDL$).
			M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
		1,1-Dichloropropene	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
					associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
		1,2,3-Trichlorobenzene	M8260C/D GC/MS	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).
		1,2,3-Trichloropropane	M8260C/D GC/MS	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).
		1,2,4-Trichlorobenzene	M8260C/D GC/MS	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).
		1,2,4-Trimethylbenzene	M8260C/D GC/MS	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).
		1,2-Dibromo-3-chloropropane	M8260C/D GC/MS	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).
		1,2-Dibromoethane	M8260C/D GC/MS	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).
		1,2-Dichlorobenzene	M8260C/D GC/MS	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).
		1,2-Dichloroethane	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
			M8260C/D GC/MS	VC	CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [< MDL].
		1,2-Dichloropropane	M8260C/D GC/MS	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).
		1,3,5-Trimethylbenzene	M8260C/D GC/MS	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).
		1,3-Dichlorobenzene	M8260C/D GC/MS	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).
		1,3-Dichloropropane	M8260C/D GC/MS	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).
		1,4-Dichlorobenzene	M8260C/D GC/MS	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).
		2,2-Dichloropropane	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
		2-Butanone	M8260C/D GC/MS	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).
			M8260C/D GC/MS	VB	CCV recovery was outside of acceptance limits. See Case Narrative.
		2-Chlorotoluene	M8260C/D GC/MS	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).
		2-Hexanone	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
			M8260C/D GC/MS	VC	CCV recovery was above the acceptance limits. Target

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
					analyte was not detected in the sample [< MDL].
		4-Chlorotoluene	M8260C/D GC/MS	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).
		4-Isopropyltoluene	M8260C/D GC/MS	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).
		4-Methyl-2-Pentanone	M8260C/D GC/MS	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).
			M8260C/D GC/MS	VB	CCV recovery was outside of acceptance limits. See Case Narrative.
		Acetone	M8260C/D GC/MS	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).
			M8260C/D GC/MS	VB	CCV recovery was outside of acceptance limits. See Case Narrative.
		Acrylonitrile	M8260C/D GC/MS	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).
			M8260C/D GC/MS	VB	CCV recovery was outside of acceptance limits. See Case Narrative.
		Benzene	M8260C/D GC/MS	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).
		Bromobenzene	M8260C/D GC/MS	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).
		Bromochloromethane	M8260C/D GC/MS	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).
			M8260C/D GC/MS	VB	CCV recovery was outside of acceptance limits. See Case Narrative.
		Bromodichloromethane	M8260C/D GC/MS	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).
		Bromoform	M8260C/D GC/MS	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).
		Bromomethane	M8260C/D GC/MS	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).
		Carbon Disulfide	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
		Carbon Tetrachloride	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
		Chlorobenzene	M8260C/D GC/MS	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).
		Chloroethane	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
		Chloroform	M8260C/D GC/MS	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).
		Chloromethane	M8260C/D GC/MS	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).

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
			M8260C/D GC/MS	VB	CCV recovery was outside of acceptance limits. See Case Narrative.
		cis-1,2-Dichloroethene	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
			M8260C/D GC/MS	VC	CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [< MDL].
		cis-1,3-Dichloropropene	M8260C/D GC/MS	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).
		Dibromochloromethane	M8260C/D GC/MS	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).
		Dibromomethane	M8260C/D GC/MS	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).
		Dichlorodifluoromethane	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
		Ethylbenzene	M8260C/D GC/MS	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).
		Hexachlorobutadiene	M8260C/D GC/MS	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).
		Isopropylbenzene	M8260C/D GC/MS	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).
		m p Xylene	M8260C/D GC/MS	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).
		Methyl Tert Butyl Ether	M8260C/D GC/MS	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).
		Methylene Chloride	M8260C/D GC/MS	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).
			M8260C/D GC/MS	VB	CCV recovery was outside of acceptance limits. See Case Narrative.
		Naphthalene	M8260C/D GC/MS	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).
		n-Butylbenzene	M8260C/D GC/MS	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).
		n-Propylbenzene	M8260C/D GC/MS	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).
		o Xylene	M8260C/D GC/MS	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).
		sec-Butylbenzene	M8260C/D GC/MS	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).
		Styrene	M8260C/D GC/MS	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).
		tert-Butylbenzene	M8260C/D GC/MS	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).
		Tetrachloroethene	M8260C/D GC/MS	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).

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
		Toluene	M8260C/D GC/MS	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).
		trans-1,2-Dichloroethene	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
		trans-1,3-Dichloropropene	M8260C/D GC/MS	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).
		Trichloroethene	M8260C/D GC/MS	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).
		Trichlorofluoromethane	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
		Vinyl Acetate	M8260C/D GC/MS	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).
			M8260C/D GC/MS	VB	CCV recovery was outside of acceptance limits. See Case Narrative.
		Vinyl Chloride	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
L65443-03	WG517626	1,1,1,2-Tetrachloroethane	M8260C/D GC/MS	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).
		1,1,1-Trichloroethane	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
		1,1,2,2-Tetrachloroethane	M8260C/D GC/MS	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).
		1,1,2-Trichloroethane	M8260C/D GC/MS	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).
		1,1-Dichloroethane	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
		1,1-Dichloroethene	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
		1,1-Dichloropropene	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
		1,2,3-Trichlorobenzene	M8260C/D GC/MS	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).
		1,2,3-Trichloropropane	M8260C/D GC/MS	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).
		1,2,4-Trichlorobenzene	M8260C/D GC/MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
					sample is too low for accurate evaluation (< 10x MDL).
		1,2,4-Trimethylbenzene	M8260C/D GC/MS	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).
		1,2-Dibromo-3-chloropropane	M8260C/D GC/MS	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).
		1,2-Dibromoethane	M8260C/D GC/MS	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).
		1,2-Dichlorobenzene	M8260C/D GC/MS	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).
		1,2-Dichloroethane	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
			M8260C/D GC/MS	VC	CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [< MDL].
		1,2-Dichloropropane	M8260C/D GC/MS	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).
		1,3,5-Trimethylbenzene	M8260C/D GC/MS	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).
		1,3-Dichlorobenzene	M8260C/D GC/MS	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).
		1,3-Dichloropropane	M8260C/D GC/MS	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).
		1,4-Dichlorobenzene	M8260C/D GC/MS	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).
		2,2-Dichloropropane	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
		2-Butanone	M8260C/D GC/MS	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).
			M8260C/D GC/MS	VB	CCV recovery was outside of acceptance limits. See Case Narrative.
		2-Chlorotoluene	M8260C/D GC/MS	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).
		2-Hexanone	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
			M8260C/D GC/MS	VC	CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [< MDL].
		4-Chlorotoluene	M8260C/D GC/MS	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).
		4-Isopropyltoluene	M8260C/D GC/MS	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).
		4-Methyl-2-Pentanone	M8260C/D GC/MS	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).
			M8260C/D GC/MS	VB	CCV recovery was outside of acceptance limits. See Case Narrative.

REPAD.15.06.05.01

ACZ Project ID: **L65443**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
		Acetone	M8260C/D GC/MS	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).
			M8260C/D GC/MS	VB	CCV recovery was outside of acceptance limits. See Case Narrative.
		Acrylonitrile	M8260C/D GC/MS	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).
			M8260C/D GC/MS	VB	CCV recovery was outside of acceptance limits. See Case Narrative.
		Benzene	M8260C/D GC/MS	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).
		Bromobenzene	M8260C/D GC/MS	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).
		Bromochloromethane	M8260C/D GC/MS	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).
			M8260C/D GC/MS	VB	CCV recovery was outside of acceptance limits. See Case Narrative.
		Bromodichloromethane	M8260C/D GC/MS	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).
		Bromoform	M8260C/D GC/MS	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).
		Bromomethane	M8260C/D GC/MS	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).
		Carbon Disulfide	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
		Carbon Tetrachloride	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
		Chlorobenzene	M8260C/D GC/MS	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).
		Chloroethane	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
		Chloroform	M8260C/D GC/MS	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).
		Chloromethane	M8260C/D GC/MS	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).
			M8260C/D GC/MS	VB	CCV recovery was outside of acceptance limits. See Case Narrative.
		cis-1,2-Dichloroethene	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
			M8260C/D GC/MS	VC	CCV recovery was above the acceptance limits. Target analyte was not detected in the sample [< MDL].
		cis-1,3-Dichloropropene	M8260C/D GC/MS	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).

REPAD.15.06.05.01

ACZ Project ID: **L65443**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
		Dibromochloromethane	M8260C/D GC/MS	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).
		Dibromomethane	M8260C/D GC/MS	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).
		Dichlorodifluoromethane	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
		Ethylbenzene	M8260C/D GC/MS	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).
		Hexachlorobutadiene	M8260C/D GC/MS	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).
		Isopropylbenzene	M8260C/D GC/MS	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).
		m p Xylene	M8260C/D GC/MS	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).
		Methyl Tert Butyl Ether	M8260C/D GC/MS	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).
		Methylene Chloride	M8260C/D GC/MS	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).
			M8260C/D GC/MS	VB	CCV recovery was outside of acceptance limits. See Case Narrative.
		Naphthalene	M8260C/D GC/MS	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).
		n-Butylbenzene	M8260C/D GC/MS	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).
		n-Propylbenzene	M8260C/D GC/MS	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).
		o Xylene	M8260C/D GC/MS	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).
		sec-Butylbenzene	M8260C/D GC/MS	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).
		Styrene	M8260C/D GC/MS	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).
		tert-Butylbenzene	M8260C/D GC/MS	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).
		Tetrachloroethene	M8260C/D GC/MS	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).
		Toluene	M8260C/D GC/MS	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).
		trans-1,2-Dichloroethene	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
		trans-1,3-Dichloropropene	M8260C/D GC/MS	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).

ACZ Project ID: **L65443**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
		Trichloroethene	M8260C/D GC/MS	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).
		Trichlorofluoromethane	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).
		Vinyl Acetate	M8260C/D GC/MS	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).
			M8260C/D GC/MS	VB	CCV recovery was outside of acceptance limits. See Case Narrative.
		Vinyl Chloride	M8260C/D GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260C/D GC/MS	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).

Ouray Silver Mines

ACZ Project ID: **L65443**

GC/MS

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

1,4-Dioxane	M8270D/E GC/MS
Alpha-terpineol	M8270D/E GC/MS

Ouray Silver Mines

ACZ Project ID: L65443

Date Received: 04/22/2021 10:38

Received By:

Date Printed: 4/23/2021

Receipt Verification

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

Samples/Containers

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

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?
NA34951	5.8	<=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.

Ouray Silver Mines

ACZ Project ID: L65443

Date Received: 04/22/2021 10:38

Received By:

Date Printed: 4/23/2021

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).

May 21, 2021

Report to:

Briana Greer
Ouray Silver Mines
285 S. Madison Ave.

Louisville, CO 80027

cc: Accounts Payable, Chris Bolane

Bill to:

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

Project ID:

ACZ Project ID: L65713

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 07, 2021. This project has been assigned to ACZ's project number, L65713. Please reference this number in all future inquiries.

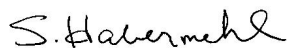
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L65713. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 June 20, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: 001-A

ACZ Sample ID: **L65713-01**

Date Sampled: 05/06/21 12:00

Date Received: 05/07/21

Sample Matrix: Waste Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002- 31.5.31 (2009)								05/10/21 23:40	enb
Cyanide, WAD	SM4500-CN I- distillation								05/13/21 12:20	syw
Total Hot Plate Digestion	M200.2 ICP				*				05/17/21 18:40	jlw
Total Recoverable Digestion	M200.2 ICP				*				05/17/21 15:32	jlw

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, potentially dissolved	M200.8 ICP-MS	1	0.00129		*	mg/L	0.00005	0.00025	05/17/21 14:34	mfm
Copper, potentially dissolved	M200.8 ICP-MS	1	0.00572			mg/L	0.0008	0.002	05/17/21 14:34	mfm
Iron, total recoverable	M200.7 ICP	2	5.59			mg/L	0.12	0.3	05/18/21 18:15	kja
Lead, potentially dissolved	M200.8 ICP-MS	1	0.0165			mg/L	0.0001	0.0005	05/17/21 14:34	mfm
Lead, total	M200.7 ICP	2	0.235	B		mg/L	0.06	0.3	05/18/21 17:04	kja
Manganese, potentially dissolved	M200.8 ICP-MS	1	0.458			mg/L	0.0004	0.002	05/17/21 14:34	mfm
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	05/12/21 17:09	mlh
Silver, potentially dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	05/18/21 16:31	mfm
Zinc, potentially dissolved	M200.8 ICP-MS	1	0.269			mg/L	0.006	0.015	05/17/21 14:34	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	05/15/21 2:34	pjb
pH (lab)	SM4500H+ B									
pH		1	8.0	H		units	0.1	0.1	05/13/21 0:00	emk
pH measured at		1	21.5			C	0.1	0.1	05/13/21 0:00	emk
Residue, Non- Filterable (TSS) @105C	SM2540D	2	126		*	mg/L	10	40	05/11/21 17:17	jck

Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L65713**

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.

Cadmium, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519377													
WG519377ICV	ICV	05/17/21 14:07	MS210503-1	.05		.050736	mg/L	101	90	110			
WG519377ICB	ICB	05/17/21 14:09				.000114	mg/L		-0.00011	0.00011			BB
WG519377LFB	LFB	05/17/21 14:11	MS210420-3	.05005		.047703	mg/L	95	85	115			
WG519028PBW	PBW	05/17/21 14:12				U	mg/L		-0.00015	0.00015			
L65660-02AS	AS	05/17/21 14:18	MS210420-3	.05005	U	.043696	mg/L	87	70	130			
L65660-02ASD	ASD	05/17/21 14:19	MS210420-3	.05005	U	.046583	mg/L	93	70	130	6	20	

Copper, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519377													
WG519377ICV	ICV	05/17/21 14:07	MS210503-1	.05		.04997	mg/L	100	90	110			
WG519377ICB	ICB	05/17/21 14:09				U	mg/L		-0.00176	0.00176			
WG519377LFB	LFB	05/17/21 14:11	MS210420-3	.05		.04873	mg/L	97	85	115			
WG519028PBW	PBW	05/17/21 14:12				U	mg/L		-0.0024	0.0024			
L65660-02AS	AS	05/17/21 14:18	MS210420-3	.05	U	.03675	mg/L	74	70	130			
L65660-02ASD	ASD	05/17/21 14:19	MS210420-3	.05	U	.03943	mg/L	79	70	130	7	20	

Cyanide, WAD

SM4500-CN I,E-Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519305													
WG519305ICV	ICV	05/15/21 1:01	WI210501-3	.3		.2765	mg/L	92	90	110			
WG519305ICB	ICB	05/15/21 1:02				U	mg/L		-0.003	0.003			
WG519309													
WG519166LRB	LRB	05/15/21 2:17				U	mg/L		-0.003	0.003			
WG519166LFB	LFB	05/15/21 2:18	WI210501-2	.2		.1853	mg/L	93	90	110			
L65773-02DUP	DUP	05/15/21 2:41			.0031	U	mg/L				200	20	RA
L65774-02LFM	LFM	05/15/21 2:42	WI210501-2	.2	U	.1941	mg/L	97	90	110			

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519458													
WG519458ICV	ICV	05/18/21 17:32	II210514-2	2		1.99	mg/L	100	95	105			
WG519458ICB	ICB	05/18/21 17:38				U	mg/L		-0.18	0.18			
WG519357LRB	LRB	05/18/21 17:51				U	mg/L		-0.132	0.132			
WG519357LFB	LFB	05/18/21 17:54	II210507-4	1.0018		1.009	mg/L	101	85	115			
L65722-02LFM	LFM	05/18/21 18:30	II2XWATER	2.0022	U	2.074	mg/L	104	70	130			
L65722-02LFMD	LFMD	05/18/21 18:34	II2XWATER	2.0022	U	2.026	mg/L	101	70	130	2	20	

Lead, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519377													
WG519377ICV	ICV	05/17/21 14:07	MS210503-1	.05		.0504	mg/L	101	90	110			
WG519377ICB	ICB	05/17/21 14:09				.0002	mg/L		-0.00022	0.00022			
WG519377LFB	LFB	05/17/21 14:11	MS210420-3	.05005		.04717	mg/L	94	85	115			
WG519028PBW	PBW	05/17/21 14:12				U	mg/L		-0.0003	0.0003			
L65660-02AS	AS	05/17/21 14:18	MS210420-3	.05005	U	.04927	mg/L	98	70	130			
L65660-02ASD	ASD	05/17/21 14:19	MS210420-3	.05005	U	.05123	mg/L	102	70	130	4	20	

Ouray Silver Mines

ACZ Project ID: **L65713**

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.

Lead, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519432													
WG519432ICV	ICV	05/18/21 15:23	II210511-1	4		3.825	mg/L	96	95	105			
WG519432ICB	ICB	05/18/21 15:29				U	mg/L		-0.09	0.09			
WG519355LRB	LRB	05/18/21 15:41				U	mg/L		-0.066	0.066			
WG519355LFB	LFB	05/18/21 15:44	II210507-4	1.0014		1.002	mg/L	100	85	115			
L65709-07LFM	LFM	05/18/21 16:58	II210507-4	1.0014	U	.972	mg/L	97	70	130			
L65709-07LFMD	LFMD	05/18/21 17:01	II210507-4	1.0014	U	.997	mg/L	100	70	130	3	20	

Manganese, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519377													
WG519377ICV	ICV	05/17/21 14:07	MS210503-1	.05		.05108	mg/L	102	90	110			
WG519377ICB	ICB	05/17/21 14:09				U	mg/L		-0.00088	0.00088			
WG519377LFB	LFB	05/17/21 14:11	MS210420-3	.0499		.0477	mg/L	96	85	115			
WG519028PBW	PBW	05/17/21 14:12				U	mg/L		-0.0012	0.0012			
L65660-02AS	AS	05/17/21 14:18	MS210420-3	.0499	.111	.14917	mg/L	76	70	130			
L65660-02ASD	ASD	05/17/21 14:19	MS210420-3	.0499	.111	.15245	mg/L	83	70	130	2	20	

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG518991													
WG518991ICV	ICV	05/12/21 13:21	HG210329-2	.00501		.00497	mg/L	99	95	105			
WG518991ICB	ICB	05/12/21 13:21				U	mg/L		-0.0002	0.0002			
WG519061													
WG519061LRB	LRB	05/12/21 16:42				U	mg/L		-0.00044	0.00044			
WG519061LFB	LFB	05/12/21 16:43	HG210423-3	.002002		.00171	mg/L	85	85	115			
L65709-06LFM	LFM	05/12/21 17:06	HG210423-3	.002002	U	.00175	mg/L	87	85	115			
L65709-06LFMD	LFMD	05/12/21 17:07	HG210423-3	.002002	U	.0018	mg/L	90	85	115	3	20	

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519212													
WG519212LCSW1	LCSW	05/13/21 16:37	PCN61687	6		6	units	100	5.9	6.1			
WG519212LCSW4	LCSW	05/13/21 20:10	PCN61687	6		6.1	units	102	5.9	6.1			
L65721-04DUP	DUP	05/13/21 23:29			8.1	8.1	units				0	20	
WG519212LCSW7	LCSW	05/13/21 23:34	PCN61687	6		6.1	units	102	5.9	6.1			
WG519212LCSW10	LCSW	05/14/21 2:51	PCN61687	6		6.1	units	102	5.9	6.1			
WG519212LCSW13	LCSW	05/14/21 6:22	PCN61687	6		6.1	units	102	5.9	6.1			

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519051													
WG519051PBW	PBW	05/11/21 17:00				U	mg/L		-5	5			
WG519051LCSW	LCSW	05/11/21 17:02	PCN62907	100		115	mg/L	115	80	120			
L65744-01DUP	DUP	05/11/21 17:26			U	U	mg/L				0	10	RA

Ouray Silver MinesACZ Project ID: **L65713**

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.

Silver, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519460													
WG519460ICV	ICV	05/18/21 16:22	MS210503-1	.02		.01826	mg/L	91	90	110			
WG519460ICB	ICB	05/18/21 16:24				U	mg/L		-0.00022	0.00022			
WG519460LFB	LFB	05/18/21 16:25	MS210420-3	.01002		.00961	mg/L	96	85	115			
WG519028PBW	PBW	05/18/21 16:27				U	mg/L		-0.0003	0.0003			
L65713-01AS	AS	05/18/21 16:32	MS210420-3	.01002	U	.00947	mg/L	95	70	130			
L65713-01ASD	ASD	05/18/21 16:34	MS210420-3	.01002	U	.00942	mg/L	94	70	130	1	20	

Zinc, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519377													
WG519377ICV	ICV	05/17/21 14:07	MS210503-1	.05		.048	mg/L	96	90	110			
WG519377ICB	ICB	05/17/21 14:09				U	mg/L		-0.0132	0.0132			
WG519377LFB	LFB	05/17/21 14:11	MS210420-3	.050075		.0485	mg/L	97	85	115			
WG519028PBW	PBW	05/17/21 14:12				U	mg/L		-0.018	0.018			
L65660-02AS	AS	05/17/21 14:18	MS210420-3	.050075	U	.0396	mg/L	79	70	130			
L65660-02ASD	ASD	05/17/21 14:19	MS210420-3	.050075	U	.0416	mg/L	83	70	130	5	20	

Ouray Silver Mines

ACZ Project ID: **L65713**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65713-01	WG519377	Cadmium, potentially dissolved	M200.8 ICP-MS	BB	Target analyte detected in calibration blank at or above acceptance limit. Sample value was > 10X the concentration in the calibration blank.
	WG519309	Cyanide, WAD	SM4500-CN I,E-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).
	WG519051	Residue, Non-Filterable (TSS) @105C	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).
	WG519355	Total Hot Plate Digestion	M200.2 ICP	DF	Sample required dilution due to high sediment.
	WG519357	Total Recoverable Digestion	M200.2 ICP	DF	Sample required dilution due to high sediment.

Ouray Silver Mines

ACZ Project ID: **L65713**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L65713

Date Received: 05/07/2021 11:27

Received By:

Date Printed: 5/10/2021

Receipt Verification

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

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	☒	☐	☐
9) Are all labels on containers and are they intact and legible?	☒	☐	☐
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	☒	☐	☐
11) For preserved bottle types, was the pH checked and within limits? ¹	☒	☐	☐
12) Is there sufficient sample volume to perform all requested work?	☒	☐	☐
13) Is the custody seal intact on all containers?	☐	☐	☒
14) Are samples that require zero headspace acceptable?	☐	☐	☒
15) Are all sample containers appropriate for analytical requirements?	☐	☒	☐
L65713-01 : A Orange container not received and the associated analysis could not be run.			
16) Is there an Hg-1631 trip blank present?	☐	☐	☒
17) Is there a VOA trip blank present?	☐	☐	☒
18) Were all samples received within hold time?	☒	☐	☐

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?
NA35058	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.

Ouray Silver Mines

ACZ Project ID: L65713

Date Received: 05/07/2021 11:27

Received By:

Date Printed: 5/10/2021

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).

May 28, 2021

Report to:

Briana Greer
Ouray Silver Mines
285 S. Madison Ave.

Louisville, CO 80027

cc: Accounts Payable, Chris Bolane

Bill to:

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

Project ID:

ACZ Project ID: L65845

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 14, 2021. This project has been assigned to ACZ's project number, L65845. Please reference this number in all future inquiries.

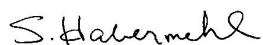
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L65845. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 June 27, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: CDPS-BIMONTH WW

ACZ Sample ID: **L65845-01**

Date Sampled: 05/13/21 11:15

Date Received: 05/14/21

Sample Matrix: Waste Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002- 31.5.31 (2009)								05/17/21 16:21	enb
Cyanide, WAD	SM4500-CN I- distillation								05/21/21 12:46	md
Total Hot Plate Digestion	M200.2 ICP								05/21/21 13:39	kja
Total Recoverable Digestion	M200.2 ICP								05/20/21 15:58	kja

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, potentially dissolved	M200.8 ICP-MS	1	0.000770			mg/L	0.00005	0.00025	05/24/21 14:51	mfm
Copper, potentially dissolved	M200.8 ICP-MS	1	0.00461			mg/L	0.0008	0.002	05/24/21 14:51	mfm
Iron, total recoverable	M200.7 ICP	1	0.322			mg/L	0.06	0.15	05/21/21 16:35	kja
Lead, potentially dissolved	M200.8 ICP-MS	1	0.0198			mg/L	0.0001	0.0005	05/24/21 14:51	mfm
Lead, total	M200.7 ICP	1	0.036	B		mg/L	0.03	0.15	05/24/21 11:12	kja
Manganese, potentially dissolved	M200.8 ICP-MS	1	0.356			mg/L	0.0004	0.002	05/24/21 14:51	mfm
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	05/19/21 12:43	mlh
Silver, potentially dissolved	M200.8 ICP-MS	1	0.00017	B		mg/L	0.0001	0.0005	05/24/21 14:51	mfm
Zinc, potentially dissolved	M200.8 ICP-MS	1	0.191			mg/L	0.006	0.015	05/24/21 14:51	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	05/22/21 0:30	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H		units	0.1	0.1	05/16/21 0:00	eep
pH measured at		1	21.1			C	0.1	0.1	05/16/21 0:00	eep
Residue, Non- Filterable (TSS) @105C	SM2540D	1	6.0	B	*	mg/L	5	20	05/19/21 11:38	scd



Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L65845**

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.

Cadmium, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519783													
WG519783ICV	ICV	05/24/21 14:33	MS210503-1	.05		.051253	mg/L	103	90	110			
WG519783ICB	ICB	05/24/21 14:34				U	mg/L		-0.00011	0.00011			
WG519783LFB	LFB	05/24/21 14:36	MS210420-3	.05005		.052388	mg/L	105	85	115			
WG519514PBW	PBW	05/24/21 14:38				U	mg/L		-0.00015	0.00015			
L65833-01AS	AS	05/24/21 14:47	MS210420-3	.05005	U	.049502	mg/L	99	70	130			
L65833-01ASD	ASD	05/24/21 14:49	MS210420-3	.05005	U	.050533	mg/L	101	70	130	2	20	
WG519710PBW	PBW	05/24/21 14:58				U	mg/L		-0.00015	0.00015			

Copper, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519783													
WG519783ICV	ICV	05/24/21 14:33	MS210503-1	.05		.0538	mg/L	108	90	110			
WG519783ICB	ICB	05/24/21 14:34				U	mg/L		-0.00176	0.00176			
WG519783LFB	LFB	05/24/21 14:36	MS210420-3	.05		.05496	mg/L	110	85	115			
WG519514PBW	PBW	05/24/21 14:38				U	mg/L		-0.0024	0.0024			
L65833-01AS	AS	05/24/21 14:47	MS210420-3	.05	.00345	.04823	mg/L	90	70	130			
L65833-01ASD	ASD	05/24/21 14:49	MS210420-3	.05	.00345	.04972	mg/L	93	70	130	3	20	
WG519710PBW	PBW	05/24/21 14:58				U	mg/L		-0.0024	0.0024			

Cyanide, WAD

SM4500-CN I,E-Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519720													
WG519720ICV	ICV	05/21/21 23:48	WI210517-5	.3		.3056	mg/L	102	90	110			
WG519720ICB	ICB	05/21/21 23:48				U	mg/L		-0.003	0.003			
WG519658LRB	LRB	05/21/21 23:49				U	mg/L		-0.003	0.003			
WG519658LFB	LFB	05/21/21 23:50	WI210517-3	.2		.203	mg/L	102	90	110			
L65845-01DUP	DUP	05/22/21 0:31			U	U	mg/L				0	20	RA
L65864-01LFM	LFM	05/22/21 0:33	WI210517-3	.2	U	.2099	mg/L	105	90	110			

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519678													
WG519678ICV	ICV	05/21/21 15:12	II210514-2	2		1.945	mg/L	97	95	105			
WG519678ICB	ICB	05/21/21 15:18				U	mg/L		-0.18	0.18			
WG519587LRB	LRB	05/21/21 15:31				U	mg/L		-0.132	0.132			
WG519587LFB	LFB	05/21/21 15:34	II210507-4	1.0018		1.114	mg/L	111	85	115			
L65845-01LFM	LFM	05/21/21 16:45	II210507-4	1.0018	.322	1.247	mg/L	92	70	130			
L65845-01LFMD	LFMD	05/21/21 16:48	II210507-4	1.0018	.322	1.226	mg/L	90	70	130	2	20	

Ouray Silver Mines

ACZ Project ID: **L65845**

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.

Lead, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519783													
WG519783ICV	ICV	05/24/21 14:33	MS210503-1	.05		.05285	mg/L	106	90	110			
WG519783ICB	ICB	05/24/21 14:34				U	mg/L		-0.00022	0.00022			
WG519783LFB	LFB	05/24/21 14:36	MS210420-3	.05005		.05447	mg/L	109	85	115			
WG519514PBW	PBW	05/24/21 14:38				U	mg/L		-0.0003	0.0003			
L65833-01AS	AS	05/24/21 14:47	MS210420-3	.05005	.00098	.05257	mg/L	103	70	130			
L65833-01ASD	ASD	05/24/21 14:49	MS210420-3	.05005	.00098	.05286	mg/L	104	70	130	1	20	
WG519710PBW	PBW	05/24/21 14:58				U	mg/L		-0.0003	0.0003			

Lead, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519747													
WG519747ICV	ICV	05/24/21 9:54	II210511-1	4		3.846	mg/L	96	95	105			
WG519747ICB	ICB	05/24/21 10:00				U	mg/L		-0.09	0.09			
WG519664LRB	LRB	05/24/21 10:13				U	mg/L		-0.066	0.066			
WG519664LFB	LFB	05/24/21 10:16	II210507-4	1.0014		1.037	mg/L	104	85	115			
L65849-02LFM	LFM	05/24/21 11:27	II2XWATER	2.0034	U	2.068	mg/L	103	70	130			
L65849-02LFMD	LFMD	05/24/21 11:30	II2XWATER	2.0034	U	2.09	mg/L	104	70	130	1	20	

Manganese, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519783													
WG519783ICV	ICV	05/24/21 14:33	MS210503-1	.05		.05128	mg/L	103	90	110			
WG519783ICB	ICB	05/24/21 14:34				U	mg/L		-0.00088	0.00088			
WG519783LFB	LFB	05/24/21 14:36	MS210420-3	.0499		.05265	mg/L	106	85	115			
WG519514PBW	PBW	05/24/21 14:38				U	mg/L		-0.0012	0.0012			
L65833-01AS	AS	05/24/21 14:47	MS210420-3	.0499	.0175	.06508	mg/L	95	70	130			
L65833-01ASD	ASD	05/24/21 14:49	MS210420-3	.0499	.0175	.06617	mg/L	98	70	130	2	20	
WG519710PBW	PBW	05/24/21 14:58				U	mg/L		-0.0012	0.0012			

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519479													
WG519479ICV	ICV	05/19/21 12:16	HG210329-2	.00501		.005	mg/L	100	95	105			
WG519479ICB	ICB	05/19/21 12:17				U	mg/L		-0.0002	0.0002			
WG519479LRB	LRB	05/19/21 12:19				U	mg/L		-0.00044	0.00044			
WG519479LFB	LFB	05/19/21 12:20	HG210513-4	.002002		.00205	mg/L	102	85	115			
L65843-01LFM	LFM	05/19/21 12:41	HG210513-4	.002002	U	.00192	mg/L	96	85	115			
L65843-01LFMD	LFMD	05/19/21 12:42	HG210513-4	.002002	U	.00205	mg/L	102	85	115	7	20	

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519311													
WG519311LCSW1	LCSW	05/15/21 11:46	PCN61687	6		6	units	100	5.9	6.1			
WG519311LCSW4	LCSW	05/15/21 14:50	PCN61687	6		6.1	units	102	5.9	6.1			
WG519311LCSW7	LCSW	05/15/21 17:47	PCN61687	6		6.1	units	102	5.9	6.1			
WG519311LCSW10	LCSW	05/15/21 21:21	PCN61687	6		6.1	units	102	5.9	6.1			
L65856-02DUP	DUP	05/16/21 1:00			9.5	9.5	units				0	20	
WG519311LCSW13	LCSW	05/16/21 1:05	PCN61687	6		6.1	units	102	5.9	6.1			

Ouray Silver Mines

ACZ Project ID: **L65845**

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.

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

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519506													
WG519506PBW	PBW	05/19/21 11:10				U	mg/L		-5	5			
WG519506LCSW	LCSW	05/19/21 11:11	PCN62897	100		117	mg/L	117	80	120			
L65858-04DUP	DUP	05/19/21 11:44			17	16	mg/L				6	10	RA

Silver, potentially dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519783													
WG519783ICV	ICV	05/24/21 14:33	MS210503-1	.02		.02009	mg/L	100	90	110			
WG519783ICB	ICB	05/24/21 14:34				U	mg/L		-0.00022	0.00022			
WG519783LFB	LFB	05/24/21 14:36	MS210420-3	.01002		.01034	mg/L	103	85	115			
WG519514PBW	PBW	05/24/21 14:38				U	mg/L		-0.0003	0.0003			
L65833-01AS	AS	05/24/21 14:47	MS210420-3	.01002	U	.00954	mg/L	95	70	130			
L65833-01ASD	ASD	05/24/21 14:49	MS210420-3	.01002	U	.0095	mg/L	95	70	130	0	20	
WG519710PBW	PBW	05/24/21 14:58				U	mg/L		-0.0003	0.0003			

Zinc, potentially dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519783													
WG519783ICV	ICV	05/24/21 14:33	MS210503-1	.05		.0526	mg/L	105	90	110			
WG519783ICB	ICB	05/24/21 14:34				U	mg/L		-0.0132	0.0132			
WG519783LFB	LFB	05/24/21 14:36	MS210420-3	.050075		.0566	mg/L	113	85	115			
WG519514PBW	PBW	05/24/21 14:38				U	mg/L		-0.018	0.018			
L65833-01AS	AS	05/24/21 14:47	MS210420-3	.050075	.052	.1028	mg/L	101	70	130			
L65833-01ASD	ASD	05/24/21 14:49	MS210420-3	.050075	.052	.1033	mg/L	102	70	130	0	20	
WG519710PBW	PBW	05/24/21 14:58				U	mg/L		-0.018	0.018			

Ouray Silver Mines

ACZ Project ID: **L65845**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65845-01	WG519720	Cyanide, WAD	SM4500-CN I,E-Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			SM4500-CN I,E-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).
	WG519506	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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

Ouray Silver Mines

ACZ Project ID: **L65845**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L65845

Date Received: 05/14/2021 11:33

Received By:

Date Printed: 5/17/2021

Receipt Verification

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

Samples/Containers

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

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?
-----	-----	-----	-----	-----
4828	8	<=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.

Ouray Silver Mines

ACZ Project ID: L65845

Date Received: 05/14/2021 11:33

Received By:

Date Printed: 5/17/2021

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).

June 21, 2021

Report to:

Briana Greer
Ouray Silver Mines
285 S. Madison Ave.

Louisville, CO 80027

cc: Accounts Payable, Chris Bolane

Bill to:

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

Project ID:

ACZ Project ID: L66147

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 28, 2021. This project has been assigned to ACZ's project number, L66147. 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 L66147. 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 July 21, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: SW-2

ACZ Sample ID: **L66147-01**

Date Sampled: 05/27/21 11:45

Date Received: 05/28/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								06/03/21 9:00	mfm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0139	B		mg/L	0.005	0.015	06/09/21 17:49	mfm
Aluminum, total recoverable	M200.8 ICP-MS	1	0.105			mg/L	0.005	0.015	06/08/21 11:48	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00096	B		mg/L	0.0002	0.001	06/09/21 17:49	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00151			mg/L	0.0002	0.001	06/08/21 11:48	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.000137	B		mg/L	0.00005	0.00025	06/09/21 17:49	mfm
Calcium, dissolved	M200.7 ICP	1	17.1			mg/L	0.1	0.5	06/08/21 2:12	jlw
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	06/09/21 17:49	mfm
Iron, dissolved	M200.8 ICP-MS	1	0.0079	B	*	mg/L	0.007	0.02	06/09/21 17:49	mfm
Iron, total recoverable	M200.8 ICP-MS	1	0.0938		*	mg/L	0.007	0.02	06/08/21 11:48	bsu
Lead, dissolved	M200.8 ICP-MS	1	0.00036	B		mg/L	0.0001	0.0005	06/09/21 17:49	mfm
Magnesium, dissolved	M200.7 ICP	1	1.56			mg/L	0.2	1	06/08/21 2:12	jlw
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	06/08/21 2:12	jlw
Mercury, total	M1631E, Atomic Fluorescence	1	1.52			ng/L	0.3	1	06/07/21 13:47	enb
Potassium, dissolved	M200.7 ICP	1	0.34	B		mg/L	0.2	1	06/08/21 2:12	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/11/21 16:22	mfm
Sodium, dissolved	M200.7 ICP	1	1.30			mg/L	0.2	1	06/08/21 2:12	jlw
Zinc, dissolved	M200.7 ICP	1	0.051			mg/L	0.02	0.05	06/08/21 2:12	jlw

Ouray Silver Mines

Project ID:

Sample ID: SW-2

ACZ Sample ID: **L66147-01**

Date Sampled: 05/27/21 11:45

Date Received: 05/28/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	24.8			mg/L	2	20	06/08/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/08/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	06/08/21 0:00	eep
Total Alkalinity		1	24.8			mg/L	2	20	06/08/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	1.1	B	*	mg/L	1	5	06/16/21 16:37	ttg
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			06/21/21 0:00	calc
Sum of Anions			1.1			meq/L			06/21/21 0:00	calc
Sum of Cations			1.1			meq/L			06/21/21 0:00	calc
Chloride	SM4500Cl-E	1	0.70	B	*	mg/L	0.5	2	06/14/21 9:42	syw
Fluoride	SM4500F-C	1	0.22	B		mg/L	0.15	0.35	06/10/21 18:04	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		49			mg/L	0.2	5	06/21/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.194		*	mg/L	0.02	0.1	06/09/21 2:04	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	80			mg/L	20	40	06/03/21 12:43	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	06/02/21 16:30	scd
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	29.1		*	mg/L	1	5	06/17/21 8:58	wtc
TDS (calculated)	Calculation		65.5			mg/L			06/21/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.22						06/21/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW-15

ACZ Sample ID: **L66147-02**

Date Sampled: 05/27/21 12:30

Date Received: 05/28/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								06/03/21 9:00	mfm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0139	B		mg/L	0.005	0.015	06/09/21 17:51	mfm
Aluminum, total recoverable	M200.8 ICP-MS	1	0.130			mg/L	0.005	0.015	06/08/21 11:50	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00089	B		mg/L	0.0002	0.001	06/09/21 17:51	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00177			mg/L	0.0002	0.001	06/08/21 11:50	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.000106	B		mg/L	0.00005	0.00025	06/09/21 17:51	mfm
Calcium, dissolved	M200.7 ICP	1	15.7			mg/L	0.1	0.5	06/08/21 16:34	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	06/09/21 17:51	mfm
Iron, dissolved	M200.8 ICP-MS	1	0.0088	B	*	mg/L	0.007	0.02	06/09/21 17:51	mfm
Iron, total recoverable	M200.8 ICP-MS	1	0.136		*	mg/L	0.007	0.02	06/08/21 11:50	bsu
Lead, dissolved	M200.8 ICP-MS	1	0.00021	B		mg/L	0.0001	0.0005	06/09/21 17:51	mfm
Magnesium, dissolved	M200.7 ICP	1	1.41			mg/L	0.2	1	06/08/21 16:34	kja
Manganese, dissolved	M200.7 ICP	1	0.011	B		mg/L	0.01	0.05	06/08/21 16:34	kja
Mercury, total	M1631E, Atomic Fluorescence	1	1.59			ng/L	0.3	1	06/07/21 13:51	enb
Potassium, dissolved	M200.7 ICP	1	0.38	B		mg/L	0.2	1	06/08/21 16:34	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/11/21 16:23	mfm
Sodium, dissolved	M200.7 ICP	1	1.31			mg/L	0.2	1	06/08/21 16:34	kja
Zinc, dissolved	M200.7 ICP	1	0.042	B		mg/L	0.02	0.05	06/08/21 16:34	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-15

ACZ Sample ID: **L66147-02**

Date Sampled: 05/27/21 12:30

Date Received: 05/28/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	23.9			mg/L	2	20	06/08/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/08/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	06/08/21 0:00	eep
Total Alkalinity		1	23.9			mg/L	2	20	06/08/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	<1	U	*	mg/L	1	5	06/16/21 16:49	ttg
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-0.2			%			06/21/21 0:00	calc
Sum of Anions			0.975			meq/L			06/21/21 0:00	calc
Sum of Cations			0.972			meq/L			06/21/21 0:00	calc
Chloride	SM4500Cl-E	1	0.65	B	*	mg/L	0.5	2	06/14/21 9:42	syw
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	06/10/21 18:23	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		45.0			mg/L	0.2	5	06/21/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.166		*	mg/L	0.02	0.1	06/09/21 2:06	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	72			mg/L	20	40	06/03/21 12:45	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	06/02/21 16:32	scd
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	22.8		*	mg/L	1	5	06/17/21 8:58	wtc
TDS (calculated)	Calculation		56.9			mg/L			06/21/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.27						06/21/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: TRIP BLANK

ACZ Sample ID: **L66147-03**

Date Sampled: 05/27/21 00:00

Date Received: 05/28/21

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Mercury, total	M1631E, Atomic Fluorescence	1	<0.3	U		ng/L	0.3	1	06/07/21 13:56	enb


Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L66147**

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
WG520620													
WG520620PBW1	PBW	06/08/21 20:19				5.7	mg/L		-20	20			
WG520620LCSW3	LCSW	06/08/21 20:36	WC210604-7	820.0001		786.6	mg/L	96	90	110			
L66148-01DUP	DUP	06/08/21 23:14			26.4	26.8	mg/L				2	20	
WG520620LCSW6	LCSW	06/08/21 23:32	WC210604-7	820.0001		782.4	mg/L	95	90	110			
WG520620PBW2	PBW	06/08/21 23:38				U	mg/L		-20	20			
WG520620LCSW9	LCSW	06/09/21 3:07	WC210604-7	820.0001		801.3	mg/L	98	90	110			
WG520620PBW3	PBW	06/09/21 3:14				U	mg/L		-20	20			
WG520620LCSW12	LCSW	06/09/21 6:29	WC210604-7	820.0001		807.8	mg/L	99	90	110			
WG520620PBW4	PBW	06/09/21 6:35				U	mg/L		-20	20			
WG520620LCSW15	LCSW	06/09/21 9:35	WC210604-7	820.0001		813.6	mg/L	99	90	110			

Aluminum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520713													
WG520713ICV	ICV	06/09/21 17:42	MS210503-1	.1		.102	mg/L	102	90	110			
WG520713ICB	ICB	06/09/21 17:44				U	mg/L		-0.011	0.011			
WG520713LFB	LFB	06/09/21 17:46	MS210420-3	.050065		.0457	mg/L	91	85	115			
L66148-01AS	AS	06/09/21 17:55	MS210420-3	.050065	.0214	.068	mg/L	93	70	130			
L66148-01ASD	ASD	06/09/21 17:57	MS210420-3	.050065	.0214	.0668	mg/L	91	70	130	2	20	

Aluminum, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520518													
WG520518ICV	ICV	06/08/21 10:53	MS210503-1	.1		.1029	mg/L	103	90	110			
WG520518ICB	ICB	06/08/21 10:55				U	mg/L		-0.015	0.015			
WG520312LRB	LRB	06/08/21 10:57				U	mg/L		-0.011	0.011			
WG520312LFB	LFB	06/08/21 10:59	MS210420-3	.050065		.0484	mg/L	97	85	115			
L66143-02LFM	LFM	06/08/21 11:41	MS210420-3	.050065	.022	.0696	mg/L	95	70	130			
L66143-02LFMD	LFMD	06/08/21 11:43	MS210420-3	.050065	.022	.0691	mg/L	94	70	130	1	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520713													
WG520713ICV	ICV	06/09/21 17:42	MS210503-1	.05		.04904	mg/L	98	90	110			
WG520713ICB	ICB	06/09/21 17:44				U	mg/L		-0.00044	0.00044			
WG520713LFB	LFB	06/09/21 17:46	MS210420-3	.05005		.04731	mg/L	95	85	115			
L66148-01AS	AS	06/09/21 17:55	MS210420-3	.05005	.00088	.05049	mg/L	99	70	130			
L66148-01ASD	ASD	06/09/21 17:57	MS210420-3	.05005	.00088	.05048	mg/L	99	70	130	0	20	

Arsenic, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520518													
WG520518ICV	ICV	06/08/21 10:53	MS210503-1	.05		.05149	mg/L	103	90	110			
WG520518ICB	ICB	06/08/21 10:55				U	mg/L		-0.0006	0.0006			
WG520312LRB	LRB	06/08/21 10:57				U	mg/L		-0.00044	0.00044			
WG520312LFB	LFB	06/08/21 10:59	MS210420-3	.05005		.04953	mg/L	99	85	115			
L66143-02LFM	LFM	06/08/21 11:41	MS210420-3	.05005	U	.0511	mg/L	102	70	130			
L66143-02LFMD	LFMD	06/08/21 11:43	MS210420-3	.05005	U	.05105	mg/L	102	70	130	0	20	

Ouray Silver Mines

ACZ Project ID: **L66147**

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.

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520713													
WG520713ICV	ICV	06/09/21 17:42	MS210503-1	.05		.05083	mg/L	102	90	110			
WG520713ICB	ICB	06/09/21 17:44				U	mg/L		-0.00011	0.00011			
WG520713LFB	LFB	06/09/21 17:46	MS210420-3	.05005		.045821	mg/L	92	85	115			
L66148-01AS	AS	06/09/21 17:55	MS210420-3	.05005	.000238	.048275	mg/L	96	70	130			
L66148-01ASD	ASD	06/09/21 17:57	MS210420-3	.05005	.000238	.047957	mg/L	95	70	130	1	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520488													
WG520488ICV	ICV	06/08/21 1:24	II210514-2	100		99.57	mg/L	100	95	105			
WG520488ICB	ICB	06/08/21 1:30				U	mg/L		-0.3	0.3			
WG520488LFB	LFB	06/08/21 1:43	II210601-2	67.98753		71.13	mg/L	105	85	115			
L66126-03AS	AS	06/08/21 1:56	II210601-2	339.93765	524	877	mg/L	104	85	115			
L66126-03ASD	ASD	06/08/21 1:59	II210601-2	339.93765	524	881	mg/L	105	85	115	0	20	
WG520557													
WG520557ICV	ICV	06/08/21 15:23	II210514-2	100		98.89	mg/L	99	95	105			
WG520557ICB	ICB	06/08/21 15:29				U	mg/L		-0.3	0.3			
WG520557LFB	LFB	06/08/21 15:42	II210601-2	67.98753		66.82	mg/L	98	85	115			
L66151-01AS	AS	06/08/21 16:55	II210601-2	67.98753	66.8	126.5	mg/L	88	85	115			
L66151-01ASD	ASD	06/08/21 16:58	II210601-2	67.98753	66.8	131.4	mg/L	95	85	115	4	20	

Carbon, dissolved organic (DOC)

SM5310B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519681													
WG519681ICV	ICV	05/21/21 18:53	WI210521-3	100		101.3	mg/L	101	90	110			
WG519681ICB	ICB	05/21/21 19:05				U	mg/L		-3	3			
WG521135													
WG521135LFB	LFB	06/16/21 11:33	WI210128-1	50		47.2	mg/L	94	90	110			
L66130-10DUP	DUP	06/16/21 15:09			U	U	mg/L				0	20	RA
L66130-11AS	AS	06/16/21 15:34	WI210128-1	50	1.1	50	mg/L	98	90	110			

Chloride

SM4500CI-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520959													
WG520959ICB	ICB	06/14/21 8:58				U	mg/L		-1.5	1.5			
WG520959ICV	ICV	06/14/21 8:58	WI210503-1	54.89		53.79	mg/L	98	90	110			
WG520959LFB1	LFB	06/14/21 9:40	WI200327-3	30.03		30.04	mg/L	100	90	110			
L66148-01AS	AS	06/14/21 9:42	WI200327-3	30.03	1.07	31.79	mg/L	102	90	110			
L66148-02DUP	DUP	06/14/21 9:42			1.13	1.03	mg/L				9	20	RA
WG520959LFB2	LFB	06/14/21 9:44	WI200327-3	30.03		29.87	mg/L	99	90	110			

Ouray Silver Mines

ACZ Project ID: **L66147**

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.

Copper, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520713													
WG520713ICV	ICV	06/09/21 17:42	MS210503-1	.05		.05126	mg/L	103	90	110			
WG520713ICB	ICB	06/09/21 17:44				U	mg/L		-0.00176	0.00176			
WG520713LFB	LFB	06/09/21 17:46	MS210420-3	.05		.04821	mg/L	96	85	115			
L66148-01AS	AS	06/09/21 17:55	MS210420-3	.05	.00101	.0478	mg/L	94	70	130			
L66148-01ASD	ASD	06/09/21 17:57	MS210420-3	.05	.00101	.04817	mg/L	94	70	130	1	20	

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520771													
WG520771ICV	ICV	06/10/21 11:30	WC210609-3	2.002		2.15	mg/L	107	90	110			
WG520771ICB	ICB	06/10/21 11:34				U	mg/L		-0.3	0.3			
WG520772													
WG520772ICV	ICV	06/10/21 16:52	WC210609-3	2.002		2.18	mg/L	109	90	110			
WG520772ICB	ICB	06/10/21 17:00				U	mg/L		-0.3	0.3			
WG520772LFB1	LFB	06/10/21 17:07	WC201221-2	5.015		5.21	mg/L	104	90	110			
L66037-01AS	AS	06/10/21 17:42	WC201221-2	5.015	U	5.21	mg/L	104	90	110			
L66037-01ASD	ASD	06/10/21 17:45	WC201221-2	5.015	U	5.18	mg/L	103	90	110	1	20	
WG520772LFB2	LFB	06/10/21 20:19	WC201221-2	5.015		5.28	mg/L	105	90	110			

Iron, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520713													
WG520713ICV	ICV	06/09/21 17:42	MS210503-1	.10016		.1007	mg/L	101	90	110			
WG520713ICB	ICB	06/09/21 17:44				U	mg/L		-0.0154	0.0154			
WG520713LFB	LFB	06/09/21 17:46	MS210420-3	.0501		.0471	mg/L	94	85	115			
L66148-01AS	AS	06/09/21 17:55	MS210420-3	.0501	.0121	.0554	mg/L	86	70	130			
L66148-01ASD	ASD	06/09/21 17:57	MS210420-3	.0501	.0121	.057	mg/L	90	70	130	3	20	

Iron, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520518													
WG520518ICV	ICV	06/08/21 10:53	MS210503-1	.10016		.1001	mg/L	100	90	110			
WG520518ICB	ICB	06/08/21 10:55				U	mg/L		-0.021	0.021			
WG520312LRB	LRB	06/08/21 10:57				U	mg/L		-0.0154	0.0154			
WG520312LFB	LFB	06/08/21 10:59	MS210420-3	.0501		.0483	mg/L	96	85	115			
L66143-02LFM	LFM	06/08/21 11:41	MS210420-3	.0501	.0283	.0757	mg/L	95	70	130			
L66143-02LFMD	LFMD	06/08/21 11:43	MS210420-3	.0501	.0283	.0762	mg/L	96	70	130	1	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520713													
WG520713ICV	ICV	06/09/21 17:42	MS210503-1	.05		.05152	mg/L	103	90	110			
WG520713ICB	ICB	06/09/21 17:44				U	mg/L		-0.00022	0.00022			
WG520713LFB	LFB	06/09/21 17:46	MS210420-3	.05005		.047	mg/L	94	85	115			
L66148-01AS	AS	06/09/21 17:55	MS210420-3	.05005	.00066	.04806	mg/L	95	70	130			
L66148-01ASD	ASD	06/09/21 17:57	MS210420-3	.05005	.00066	.04804	mg/L	95	70	130	0	20	

Ouray Silver Mines

ACZ Project ID: **L66147**

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.

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520488													
WG520488ICV	ICV	06/08/21 1:24	II210514-2	100		98.21	mg/L	98	95	105			
WG520488ICB	ICB	06/08/21 1:30				U	mg/L		-0.6	0.6			
WG520488LFB	LFB	06/08/21 1:43	II210601-2	50.00302		50.92	mg/L	102	85	115			
L66126-03AS	AS	06/08/21 1:56	II210601-2	250.0151	522	782.5	mg/L	104	85	115			
L66126-03ASD	ASD	06/08/21 1:59	II210601-2	250.0151	522	787	mg/L	106	85	115	1	20	
WG520557													
WG520557ICV	ICV	06/08/21 15:23	II210514-2	100		97.78	mg/L	98	95	105			
WG520557ICB	ICB	06/08/21 15:29				U	mg/L		-0.6	0.6			
WG520557LFB	LFB	06/08/21 15:42	II210601-2	50.00302		48	mg/L	96	85	115			
L66151-01AS	AS	06/08/21 16:55	II210601-2	50.00302	13.4	58.96	mg/L	91	85	115			
L66151-01ASD	ASD	06/08/21 16:58	II210601-2	50.00302	13.4	61.52	mg/L	96	85	115	4	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520488													
WG520488ICV	ICV	06/08/21 1:24	II210514-2	2		1.952	mg/L	98	95	105			
WG520488ICB	ICB	06/08/21 1:30				U	mg/L		-0.03	0.03			
WG520488LFB	LFB	06/08/21 1:43	II210601-2	.5005		.497	mg/L	99	85	115			
L66126-03AS	AS	06/08/21 1:56	II210601-2	2.5025	.798	3.228	mg/L	97	85	115			
L66126-03ASD	ASD	06/08/21 1:59	II210601-2	2.5025	.798	3.23	mg/L	97	85	115	0	20	
WG520557													
WG520557ICV	ICV	06/08/21 15:23	II210514-2	2		1.93	mg/L	97	95	105			
WG520557ICB	ICB	06/08/21 15:29				U	mg/L		-0.03	0.03			
WG520557LFB	LFB	06/08/21 15:42	II210601-2	.5005		.471	mg/L	94	85	115			
L66151-01AS	AS	06/08/21 16:55	II210601-2	.5005	.041	.496	mg/L	91	85	115			
L66151-01ASD	ASD	06/08/21 16:58	II210601-2	.5005	.041	.517	mg/L	95	85	115	4	20	

Mercury, total

M1631E, Atomic Fluorescence

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG510539													
WG510539ICV	ICV	12/02/20 11:56	HG201005-4	10		8.76	ng/L	88	79	121			
WG510539ICB	ICB	12/02/20 12:01				U	ng/L		-0.501	0.501			
WG520476													
WG520476CCV1	CCV	06/07/21 12:54	HG210407-4	10		8.07	ng/L	81	76.5	123.4			
WG520476CCB1	CCB	06/07/21 12:59				U	ng/L		-0.501	0.501			
WG520476PQV	PQV	06/07/21 13:04	HG210407-6	1		1.25	ng/L	125	70	130			
WG520476LFB	LFB	06/07/21 13:08	HG210407-5	2		2.09	ng/L	105	71	125			
L66074-05MS	MS	06/07/21 13:18	HG210407-5	2	U	2.11	ng/L	106	71	125			
L66074-05MSD	MSD	06/07/21 13:23	HG210407-5	2	U	1.94	ng/L	97	71	125	8	24	
WG520476CCV2	CCV	06/07/21 14:01	HG210407-4	10		8.24	ng/L	82	76.5	123.4			
WG520476CCB2	CCB	06/07/21 14:06				U	ng/L		-0.501	0.501			
WG520476CCV3	CCV	06/07/21 15:04	HG210407-4	10		7.72	ng/L	77	76.5	123.4			
WG520476CCB3	CCB	06/07/21 15:08				U	ng/L		-0.501	0.501			

Ouray Silver Mines

ACZ Project ID: **L66147**

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.

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520623													
WG520623ICV	ICV	06/09/21 0:19	WI210603-7	2.416		2.298	mg/L	95	90	110			
WG520623ICB	ICB	06/09/21 0:20				U	mg/L		-0.02	0.02			
WG520625													
WG520625LFB	LFB	06/09/21 1:55	WI210331-13	2		2.152	mg/L	108	90	110			
L65069-10DUP	DUP	06/09/21 2:01			U	U	mg/L				0	20	RA
L65068-10AS	AS	06/09/21 2:34	WI210331-13	2	U	2.095	mg/L	105	90	110			

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520488													
WG520488ICV	ICV	06/08/21 1:24	II210514-2	20		19.81	mg/L	99	95	105			
WG520488ICB	ICB	06/08/21 1:30				U	mg/L		-0.6	0.6			
WG520488LFB	LFB	06/08/21 1:43	II210601-2	100.0157		102.9	mg/L	103	85	115			
L66126-03AS	AS	06/08/21 1:56	II210601-2	500.0785	30.4	549	mg/L	104	85	115			
L66126-03ASD	ASD	06/08/21 1:59	II210601-2	500.0785	30.4	550.5	mg/L	104	85	115	0	20	
WG520557													
WG520557ICV	ICV	06/08/21 15:23	II210514-2	20		19.51	mg/L	98	95	105			
WG520557ICB	ICB	06/08/21 15:29				U	mg/L		-0.6	0.6			
WG520557LFB	LFB	06/08/21 15:42	II210601-2	100.0157		95.51	mg/L	95	85	115			
L66151-01AS	AS	06/08/21 16:55	II210601-2	100.0157	2.84	97.3	mg/L	94	85	115			
L66151-01ASD	ASD	06/08/21 16:58	II210601-2	100.0157	2.84	101.1	mg/L	98	85	115	4	20	

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520342													
WG520342PBW	PBW	06/03/21 12:30				U	mg/L		-20	20			
WG520342LCSW	LCSW	06/03/21 12:31	PCN63553	1000		996	mg/L	100	80	120			
L66153-02DUP	DUP	06/03/21 12:53			3100	3112	mg/L				0	10	

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520299													
WG520299PBW	PBW	06/02/21 16:25				U	mg/L		-5	5			
WG520299LCSW	LCSW	06/02/21 16:26	PCN63553	100		89	mg/L	89	80	120			
L66197-05DUP	DUP	06/02/21 16:48			5	7	mg/L				33	10	RA

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520911													
WG520911ICV	ICV	06/11/21 16:16	MS210503-1	.02		.01963	mg/L	98	90	110			
WG520911ICB	ICB	06/11/21 16:18				U	mg/L		-0.00022	0.00022			
WG520911LFB	LFB	06/11/21 16:20	MS210610-2	.01002		.01016	mg/L	101	85	115			
L66148-03AS	AS	06/11/21 16:31	MS210610-2	.01002	U	.00945	mg/L	94	70	130			
L66148-03ASD	ASD	06/11/21 16:32	MS210610-2	.01002	U	.00984	mg/L	98	70	130	4	20	

Ouray Silver Mines

ACZ Project ID: **L66147**

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.

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520488													
WG520488ICV	ICV	06/08/21 1:24	II210514-2	100		97.68	mg/L	98	95	105			
WG520488ICB	ICB	06/08/21 1:30				U	mg/L		-0.6	0.6			
WG520488LFB	LFB	06/08/21 1:43	II210601-2	100.0605		101.2	mg/L	101	85	115			
L66126-03AS	AS	06/08/21 1:56	II210601-2	500.3025	159	672.5	mg/L	103	85	115			
L66126-03ASD	ASD	06/08/21 1:59	II210601-2	500.3025	159	672.5	mg/L	103	85	115	0	20	
WG520557													
WG520557ICV	ICV	06/08/21 15:23	II210514-2	100		96.59	mg/L	97	95	105			
WG520557ICB	ICB	06/08/21 15:29				U	mg/L		-0.6	0.6			
WG520557LFB	LFB	06/08/21 15:42	II210601-2	100.0605		94.1	mg/L	94	85	115			
L66151-01AS	AS	06/08/21 16:55	II210601-2	100.0605	12.5	105.1	mg/L	93	85	115			
L66151-01ASD	ASD	06/08/21 16:58	II210601-2	100.0605	12.5	108.7	mg/L	96	85	115	3	20	

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521251													
WG521251ICB	ICB	06/17/21 8:02				U	mg/L		-3	3			
WG521251ICV	ICV	06/17/21 8:02	WI210615-1	20.46		20.5	mg/L	100	90	110			
WG521251LFB	LFB	06/17/21 8:55	WI210105-3	10		9.8	mg/L	98	90	110			
L66146-03DUP	DUP	06/17/21 9:36			1710	1755.8	mg/L				3	20	
L66146-04AS	AS	06/17/21 9:37	SO4TURB	10.0000008	1750	1615.6	mg/L	-1344	90	110			M3

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520488													
WG520488ICV	ICV	06/08/21 1:24	II210514-2	2		1.972	mg/L	99	95	105			
WG520488ICB	ICB	06/08/21 1:30				U	mg/L		-0.06	0.06			
WG520488LFB	LFB	06/08/21 1:43	II210601-2	.50075		.506	mg/L	101	85	115			
L66126-03AS	AS	06/08/21 1:56	II210601-2	2.50375	U	2.519	mg/L	101	85	115			
L66126-03ASD	ASD	06/08/21 1:59	II210601-2	2.50375	U	2.533	mg/L	101	85	115	1	20	
WG520557													
WG520557ICV	ICV	06/08/21 15:23	II210514-2	2		1.912	mg/L	96	95	105			
WG520557ICB	ICB	06/08/21 15:29				U	mg/L		-0.06	0.06			
WG520557LFB	LFB	06/08/21 15:42	II210601-2	.50075		.477	mg/L	95	85	115			
L66151-01AS	AS	06/08/21 16:55	II210601-2	.50075	U	.453	mg/L	90	85	115			
L66151-01ASD	ASD	06/08/21 16:58	II210601-2	.50075	U	.476	mg/L	95	85	115	5	20	

Ouray Silver Mines

ACZ Project ID: **L66147**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66147-01	WG521135	Carbon, dissolved organic (DOC)	SM5310B	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).
	WG520959	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).
	WG520625	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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).
	WG520299	Residue, Non-Filterable (TSS) @105C	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).
	WG521251	Sulfate	SM2540D D516-02/-07/-11 - TURBIDIMETRIC	Z3 M3	Sample volume yielded a residue less than 2.5 mg 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.
L66147-02	WG521135	Carbon, dissolved organic (DOC)	SM5310B	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).
	WG520959	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).
	WG520625	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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).
	WG520299	Residue, Non-Filterable (TSS) @105C	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).
	WG521251	Sulfate	SM2540D D516-02/-07/-11 - TURBIDIMETRIC	Z3 M3	Sample volume yielded a residue less than 2.5 mg 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.

Ouray Silver Mines

ACZ Project ID: **L66147**

Metals Analysis

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Iron, dissolved	M200.8 ICP-MS
Iron, total recoverable	M200.8 ICP-MS

Ouray Silver Mines

ACZ Project ID: L66147

Date Received: 05/28/2021 11:59

Received By:

Date Printed: 6/1/2021

Receipt Verification

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

Samples/Containers

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

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?

Ouray Silver Mines

ACZ Project ID: L66147

Date Received: 05/28/2021 11:59

Received By:

Date Printed: 6/1/2021

4900

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.

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).

June 21, 2021

Report to:

Briana Greer
Ouray Silver Mines
285 S. Madison Ave.

Louisville, CO 80027

cc: Accounts Payable, Chris Bolane

Bill to:

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

Project ID:

ACZ Project ID: L66148

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 28, 2021. This project has been assigned to ACZ's project number, L66148. Please reference this number in all future inquiries.

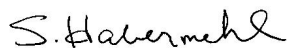
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L66148. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 July 21, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: SW-21

ACZ Sample ID: **L66148-01**

Date Sampled: 05/26/21 10:00

Date Received: 05/28/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								06/04/21 11:10	mfm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0214			mg/L	0.005	0.015	06/09/21 17:53	mfm
Aluminum, total recoverable	M200.8 ICP-MS	1	0.298		*	mg/L	0.005	0.015	06/08/21 17:56	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00088	B		mg/L	0.0002	0.001	06/09/21 17:53	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00220			mg/L	0.0002	0.001	06/08/21 17:56	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.000238	B		mg/L	0.00005	0.00025	06/09/21 17:53	mfm
Calcium, dissolved	M200.7 ICP	1	19.4			mg/L	0.1	0.5	06/08/21 18:02	kja
Copper, dissolved	M200.8 ICP-MS	1	0.00101	B		mg/L	0.0008	0.002	06/09/21 17:53	mfm
Iron, dissolved	M200.8 ICP-MS	1	0.0121	B	*	mg/L	0.007	0.02	06/09/21 17:53	mfm
Iron, total recoverable	M200.8 ICP-MS	1	0.259		*	mg/L	0.007	0.02	06/08/21 17:56	bsu
Lead, dissolved	M200.8 ICP-MS	1	0.00066			mg/L	0.0001	0.0005	06/09/21 17:53	mfm
Magnesium, dissolved	M200.7 ICP	1	1.51			mg/L	0.2	1	06/08/21 18:02	kja
Manganese, dissolved	M200.7 ICP	1	0.016	B		mg/L	0.01	0.05	06/08/21 18:02	kja
Mercury, total	M1631E, Atomic Fluorescence	1	2.99			ng/L	0.3	1	06/07/21 14:11	enb
Potassium, dissolved	M200.7 ICP	1	0.31	B		mg/L	0.2	1	06/08/21 18:02	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/11/21 16:25	mfm
Sodium, dissolved	M200.7 ICP	1	1.26			mg/L	0.2	1	06/08/21 18:02	kja
Zinc, dissolved	M200.7 ICP	1	0.094			mg/L	0.02	0.05	06/08/21 18:02	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-21

ACZ Sample ID: **L66148-01**

Date Sampled: 05/26/21 10:00

Date Received: 05/28/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	26.4		*	mg/L	2	20	06/08/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	06/08/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	06/08/21 0:00	eep
Total Alkalinity		1	26.4		*	mg/L	2	20	06/08/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	1.2	B	*	mg/L	1	5	06/16/21 16:59	ttg
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-4.0			%			06/21/21 0:00	calc
Sum of Anions			1.3			meq/L			06/21/21 0:00	calc
Sum of Cations			1.2			meq/L			06/21/21 0:00	calc
Chloride	SM4500Cl-E	1	1.07	B	*	mg/L	0.5	2	06/14/21 9:42	syw
Fluoride	SM4500F-C	1	<0.15	U	*	mg/L	0.15	0.35	06/10/21 18:31	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		55			mg/L	0.2	5	06/21/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.324		*	mg/L	0.02	0.1	06/09/21 2:07	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	80	H	*	mg/L	20	40	06/07/21 13:02	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	8.0	B	*	mg/L	5	20	06/01/21 10:21	cgm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	33.0		*	mg/L	1	5	06/12/21 9:17	wtc
TDS (calculated)	Calculation		72.8			mg/L			06/21/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.10						06/21/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW-4

ACZ Sample ID: **L66148-02**

Date Sampled: 05/26/21 11:00

Date Received: 05/28/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								06/04/21 11:10	mfm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0182			mg/L	0.005	0.015	06/09/21 17:58	mfm
Aluminum, total recoverable	M200.8 ICP-MS	1	0.235		*	mg/L	0.005	0.015	06/08/21 17:58	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00072	B		mg/L	0.0002	0.001	06/09/21 17:58	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00240			mg/L	0.0002	0.001	06/08/21 17:58	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.000320			mg/L	0.00005	0.00025	06/09/21 17:58	mfm
Calcium, dissolved	M200.7 ICP	1	19.9			mg/L	0.1	0.5	06/08/21 18:05	kja
Copper, dissolved	M200.8 ICP-MS	1	0.00090	B		mg/L	0.0008	0.002	06/09/21 17:58	mfm
Iron, dissolved	M200.8 ICP-MS	1	0.0089	B	*	mg/L	0.007	0.02	06/09/21 17:58	mfm
Iron, total recoverable	M200.8 ICP-MS	1	0.235		*	mg/L	0.007	0.02	06/08/21 17:58	bsu
Lead, dissolved	M200.8 ICP-MS	1	0.00050			mg/L	0.0001	0.0005	06/09/21 17:58	mfm
Magnesium, dissolved	M200.7 ICP	1	1.61			mg/L	0.2	1	06/08/21 18:05	kja
Manganese, dissolved	M200.7 ICP	1	0.022	B		mg/L	0.01	0.05	06/08/21 18:05	kja
Mercury, total	M1631E, Atomic Fluorescence	1	2.95			ng/L	0.3	1	06/07/21 14:15	enb
Potassium, dissolved	M200.7 ICP	1	0.33	B		mg/L	0.2	1	06/08/21 18:05	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/11/21 16:27	mfm
Sodium, dissolved	M200.7 ICP	1	1.37			mg/L	0.2	1	06/08/21 18:05	kja
Zinc, dissolved	M200.7 ICP	1	0.124			mg/L	0.02	0.05	06/08/21 18:05	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-4

ACZ Sample ID: **L66148-02**

Date Sampled: 05/26/21 11:00

Date Received: 05/28/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	25.0		*	mg/L	2	20	06/08/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	06/08/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	06/08/21 0:00	eep
Total Alkalinity		1	25.0		*	mg/L	2	20	06/08/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	1.1	B	*	mg/L	1	5	06/16/21 17:09	ttg
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-4.0			%			06/21/21 0:00	calc
Sum of Anions			1.3			meq/L			06/21/21 0:00	calc
Sum of Cations			1.2			meq/L			06/21/21 0:00	calc
Chloride	SM4500Cl-E	1	1.13	B	*	mg/L	0.5	2	06/14/21 9:42	syw
Fluoride	SM4500F-C	1	<0.15	U	*	mg/L	0.15	0.35	06/10/21 18:39	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		56			mg/L	0.2	5	06/21/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.338		*	mg/L	0.02	0.1	06/09/21 2:13	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	80	H	*	mg/L	20	40	06/07/21 13:05	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	5.0	B	*	mg/L	5	20	06/01/21 10:24	cgm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	34.9		*	mg/L	5	25	06/12/21 9:56	wtc
TDS (calculated)	Calculation		74.7			mg/L			06/21/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.07						06/21/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW-99

ACZ Sample ID: **L66148-03**

Date Sampled: 05/26/21 11:45

Date Received: 05/28/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								06/04/21 11:10	mfm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0190			mg/L	0.005	0.015	06/09/21 18:00	mfm
Aluminum, total recoverable	M200.8 ICP-MS	1	0.322		*	mg/L	0.005	0.015	06/08/21 18:00	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00040	B		mg/L	0.0002	0.001	06/09/21 18:00	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00099	B		mg/L	0.0002	0.001	06/08/21 18:00	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	06/09/21 18:00	mfm
Calcium, dissolved	M200.7 ICP	1	12.4			mg/L	0.1	0.5	06/08/21 18:08	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	06/09/21 18:00	mfm
Iron, dissolved	M200.8 ICP-MS	1	0.0112	B	*	mg/L	0.007	0.02	06/09/21 18:00	mfm
Iron, total recoverable	M200.8 ICP-MS	1	0.253		*	mg/L	0.007	0.02	06/08/21 18:00	bsu
Lead, dissolved	M200.8 ICP-MS	1	0.00011	B		mg/L	0.0001	0.0005	06/09/21 18:00	mfm
Magnesium, dissolved	M200.7 ICP	1	1.03			mg/L	0.2	1	06/08/21 18:08	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	06/08/21 18:08	kja
Mercury, total	M1631E, Atomic Fluorescence	1	1.68			ng/L	0.3	1	06/07/21 14:20	enb
Potassium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	06/08/21 18:08	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/11/21 16:29	mfm
Sodium, dissolved	M200.7 ICP	1	0.42	B		mg/L	0.2	1	06/08/21 18:08	kja
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	06/08/21 18:08	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-99

ACZ Sample ID: **L66148-03**

Date Sampled: 05/26/21 11:45

Date Received: 05/28/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	20.3		*	mg/L	2	20	06/08/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	06/08/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	06/08/21 0:00	eep
Total Alkalinity		1	20.3		*	mg/L	2	20	06/08/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	1.2	B	*	mg/L	1	5	06/16/21 17:23	ttg
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-4.3			%			06/21/21 0:00	calc
Sum of Anions			0.792			meq/L			06/21/21 0:00	calc
Sum of Cations			0.726			meq/L			06/21/21 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	06/14/21 9:42	syw
Fluoride	SM4500F-C	1	<0.15	U	*	mg/L	0.15	0.35	06/10/21 18:43	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		35			mg/L	0.2	5	06/21/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.225		*	mg/L	0.02	0.1	06/09/21 2:14	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	52	H	*	mg/L	20	40	06/07/21 13:08	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	9.0	B	*	mg/L	5	20	06/01/21 10:27	cgm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	18.4		*	mg/L	1	5	06/12/21 9:17	wtc
TDS (calculated)	Calculation		44.7			mg/L			06/21/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.16						06/21/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW-1

ACZ Sample ID: **L66148-04**

Date Sampled: 05/26/21 13:45

Date Received: 05/28/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								06/04/21 11:10	mfm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0308			mg/L	0.005	0.015	06/09/21 18:02	mfm
Aluminum, total recoverable	M200.8 ICP-MS	1	0.183		*	mg/L	0.005	0.015	06/08/21 18:02	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00088	B		mg/L	0.0002	0.001	06/09/21 18:02	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00180			mg/L	0.0002	0.001	06/08/21 18:02	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.00220			mg/L	0.00005	0.00025	06/09/21 18:02	mfm
Calcium, dissolved	M200.7 ICP	1	19.5			mg/L	0.1	0.5	06/08/21 18:18	kja
Copper, dissolved	M200.8 ICP-MS	1	0.00134	B		mg/L	0.0008	0.002	06/09/21 18:02	mfm
Iron, dissolved	M200.8 ICP-MS	1	0.0103	B	*	mg/L	0.007	0.02	06/09/21 18:02	mfm
Iron, total recoverable	M200.8 ICP-MS	1	0.143		*	mg/L	0.007	0.02	06/08/21 18:02	bsu
Lead, dissolved	M200.8 ICP-MS	1	0.00214			mg/L	0.0001	0.0005	06/09/21 18:02	mfm
Magnesium, dissolved	M200.7 ICP	1	1.15			mg/L	0.2	1	06/08/21 18:18	kja
Manganese, dissolved	M200.7 ICP	1	0.189			mg/L	0.01	0.05	06/08/21 18:18	kja
Mercury, total	M1631E, Atomic Fluorescence	1	1.69			ng/L	0.3	1	06/07/21 14:34	enb
Potassium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	06/08/21 18:18	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/11/21 16:34	mfm
Sodium, dissolved	M200.7 ICP	1	1.04			mg/L	0.2	1	06/08/21 18:18	kja
Zinc, dissolved	M200.7 ICP	1	0.693			mg/L	0.02	0.05	06/08/21 18:18	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-1

ACZ Sample ID: **L66148-04**

Date Sampled: 05/26/21 13:45

Date Received: 05/28/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	21.4		*	mg/L	2	20	06/09/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	06/09/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	06/09/21 0:00	eep
Total Alkalinity		1	21.4		*	mg/L	2	20	06/09/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	1.1	B	*	mg/L	1	5	06/16/21 18:53	ttg
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-4.0			%			06/21/21 0:00	calc
Sum of Anions			1.3			meq/L			06/21/21 0:00	calc
Sum of Cations			1.2			meq/L			06/21/21 0:00	calc
Chloride	SM4500Cl-E	1	0.74	B	*	mg/L	0.5	2	06/14/21 9:44	syw
Fluoride	SM4500F-C	1	0.18	B	*	mg/L	0.15	0.35	06/10/21 19:06	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		53			mg/L	0.2	5	06/21/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.324		*	mg/L	0.02	0.1	06/09/21 2:15	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	78	H	*	mg/L	20	40	06/07/21 13:10	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	06/02/21 12:51	cgm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	37.7		*	mg/L	1	5	06/12/21 9:17	wtc
TDS (calculated)	Calculation		74.3			mg/L			06/21/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.05						06/21/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW-16

ACZ Sample ID: **L66148-05**

Date Sampled: 05/26/21 13:00

Date Received: 05/28/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								06/04/21 10:05	mlh
Total Recoverable Digestion	M200.2 ICP-MS								06/04/21 11:10	mfm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.141			mg/L	0.005	0.015	06/09/21 18:07	mfm
Aluminum, total recoverable	M200.8 ICP-MS	1	0.240		*	mg/L	0.005	0.015	06/08/21 18:04	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00163			mg/L	0.0002	0.001	06/09/21 18:07	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00182			mg/L	0.0002	0.001	06/08/21 18:04	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.000139	B		mg/L	0.00005	0.00025	06/09/21 18:07	mfm
Calcium, dissolved	M200.7 ICP	1	15.6			mg/L	0.1	0.5	06/08/21 18:21	kja
Copper, dissolved	M200.8 ICP-MS	1	0.00485			mg/L	0.0008	0.002	06/09/21 18:07	mfm
Iron, dissolved	M200.8 ICP-MS	1	0.126		*	mg/L	0.007	0.02	06/09/21 18:07	mfm
Iron, total recoverable	M200.8 ICP-MS	1	0.204		*	mg/L	0.007	0.02	06/08/21 18:04	bsu
Lead, dissolved	M200.8 ICP-MS	1	0.00587			mg/L	0.0001	0.0005	06/09/21 18:07	mfm
Magnesium, dissolved	M200.7 ICP	1	1.43			mg/L	0.2	1	06/08/21 18:21	kja
Manganese, dissolved	M200.7 ICP	1	0.038	B		mg/L	0.01	0.05	06/08/21 18:21	kja
Mercury, total	M1631E, Atomic Fluorescence	1	2.19			ng/L	0.3	1	06/07/21 14:39	enb
Potassium, dissolved	M200.7 ICP	1	0.31	B		mg/L	0.2	1	06/08/21 18:21	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/11/21 16:36	mfm
Sodium, dissolved	M200.7 ICP	1	1.00			mg/L	0.2	1	06/08/21 18:21	kja
Zinc, dissolved	M200.7 ICP	1	0.296			mg/L	0.02	0.05	06/08/21 18:21	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-16

ACZ Sample ID: **L66148-05**

Date Sampled: 05/26/21 13:00

Date Received: 05/28/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	22.1		*	mg/L	2	20	06/09/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	06/09/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	06/09/21 0:00	eep
Total Alkalinity		1	22.1		*	mg/L	2	20	06/09/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	1.3	B	*	mg/L	1	5	06/16/21 19:14	ttg
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-0.8			%			06/21/21 0:00	calc
Sum of Anions			1			meq/L			06/21/21 0:00	calc
Sum of Cations			0.984			meq/L			06/21/21 0:00	calc
Chloride	SM4500Cl-E	1	0.57	B	*	mg/L	0.5	2	06/14/21 9:44	syw
Fluoride	SM4500F-C	1	<0.15	U	*	mg/L	0.15	0.35	06/10/21 19:14	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		45			mg/L	0.2	5	06/21/21 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							06/07/21 13:00	cgm
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.204		*	mg/L	0.02	0.1	06/09/21 2:16	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	56	H	*	mg/L	20	40	06/07/21 13:13	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	6.0	B	*	mg/L	5	20	06/02/21 12:54	cgm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	23.9		*	mg/L	1	5	06/12/21 9:17	wtc
TDS (calculated)	Calculation		56.9			mg/L			06/21/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.98						06/21/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW-3

ACZ Sample ID: **L66148-06**

Date Sampled: 05/26/21 14:30

Date Received: 05/28/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								06/04/21 11:10	mfm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	<0.005	U		mg/L	0.005	0.015	06/09/21 18:09	mfm
Aluminum, total recoverable	M200.8 ICP-MS	1	0.0285		*	mg/L	0.005	0.015	06/08/21 18:13	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00066	B		mg/L	0.0002	0.001	06/09/21 18:09	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00104			mg/L	0.0002	0.001	06/08/21 18:13	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.000282			mg/L	0.00005	0.00025	06/09/21 18:09	mfm
Calcium, dissolved	M200.7 ICP	1	57.1			mg/L	0.1	0.5	06/08/21 18:24	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	06/09/21 18:09	mfm
Iron, dissolved	M200.8 ICP-MS	1	<0.007	U	*	mg/L	0.007	0.02	06/09/21 18:09	mfm
Iron, total recoverable	M200.8 ICP-MS	1	0.0374		*	mg/L	0.007	0.02	06/08/21 18:13	bsu
Lead, dissolved	M200.8 ICP-MS	1	0.00020	B		mg/L	0.0001	0.0005	06/09/21 18:09	mfm
Magnesium, dissolved	M200.7 ICP	1	3.74			mg/L	0.2	1	06/08/21 18:24	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	06/08/21 18:24	kja
Mercury, total	M1631E, Atomic Fluorescence	1	2.85			ng/L	0.3	1	06/07/21 14:44	enb
Potassium, dissolved	M200.7 ICP	1	0.70	B		mg/L	0.2	1	06/08/21 18:24	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/11/21 16:41	mfm
Sodium, dissolved	M200.7 ICP	1	5.47			mg/L	0.2	1	06/08/21 18:24	kja
Zinc, dissolved	M200.7 ICP	1	0.199			mg/L	0.02	0.05	06/08/21 18:24	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-3

ACZ Sample ID: **L66148-06**

Date Sampled: 05/26/21 14:30

Date Received: 05/28/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	35.3		*	mg/L	2	20	06/05/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	06/05/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	06/05/21 0:00	eep
Total Alkalinity		1	35.3		*	mg/L	2	20	06/05/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	<1	U	*	mg/L	1	5	06/16/21 19:43	ttg
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-2.9			%			06/21/21 0:00	calc
Sum of Anions			3.6			meq/L			06/21/21 0:00	calc
Sum of Cations			3.4			meq/L			06/21/21 0:00	calc
Chloride	SM4500Cl-E	1	9.26		*	mg/L	0.5	2	06/14/21 9:44	syw
Fluoride	SM4500F-C	1	0.19	B	*	mg/L	0.15	0.35	06/10/21 19:17	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		158			mg/L	0.2	5	06/21/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	2.10		*	mg/L	0.02	0.1	06/09/21 2:19	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	242	H	*	mg/L	20	40	06/09/21 11:49	cgm
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	06/02/21 12:58	cgm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	124		*	mg/L	5	25	06/12/21 9:56	wtc
TDS (calculated)	Calculation		222			mg/L			06/21/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.09						06/21/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW-17

ACZ Sample ID: **L66148-07**

Date Sampled: 05/26/21 11:45

Date Received: 05/28/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								06/04/21 11:10	mfm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0174			mg/L	0.005	0.015	06/09/21 18:11	mfm
Aluminum, total recoverable	M200.8 ICP-MS	1	0.155		*	mg/L	0.005	0.015	06/08/21 18:15	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00037	B		mg/L	0.0002	0.001	06/09/21 18:11	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00075	B		mg/L	0.0002	0.001	06/08/21 18:15	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	06/09/21 18:11	mfm
Calcium, dissolved	M200.7 ICP	1	12.4			mg/L	0.1	0.5	06/08/21 18:34	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	06/09/21 18:11	mfm
Iron, dissolved	M200.8 ICP-MS	1	0.0121	B	*	mg/L	0.007	0.02	06/09/21 18:11	mfm
Iron, total recoverable	M200.8 ICP-MS	1	0.129		*	mg/L	0.007	0.02	06/08/21 18:15	bsu
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/09/21 18:11	mfm
Magnesium, dissolved	M200.7 ICP	1	1.02			mg/L	0.2	1	06/08/21 18:34	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	06/08/21 18:34	kja
Mercury, total	M1631E, Atomic Fluorescence	1	1.29			ng/L	0.3	1	06/07/21 14:49	enb
Potassium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	06/08/21 18:34	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/11/21 16:43	mfm
Sodium, dissolved	M200.7 ICP	1	0.43	B		mg/L	0.2	1	06/08/21 18:34	kja
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	06/08/21 18:34	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-17

ACZ Sample ID: **L66148-07**

Date Sampled: 05/26/21 11:45

Date Received: 05/28/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	20.7		*	mg/L	2	20	06/05/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	06/05/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	06/05/21 0:00	eep
Total Alkalinity		1	20.7		*	mg/L	2	20	06/05/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	1.3	B	*	mg/L	1	5	06/16/21 19:54	ttg
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-6.3			%			06/21/21 0:00	calc
Sum of Anions			0.822			meq/L			06/21/21 0:00	calc
Sum of Cations			0.725			meq/L			06/21/21 0:00	calc
Chloride	SM4500Cl-E	1	0.56	B	*	mg/L	0.5	2	06/14/21 9:44	syw
Fluoride	SM4500F-C	1	<0.15	U	*	mg/L	0.15	0.35	06/10/21 19:25	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		35			mg/L	0.2	5	06/21/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.223		*	mg/L	0.02	0.1	06/09/21 2:21	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	46	H	*	mg/L	20	40	06/07/21 13:15	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	6.0	B	*	mg/L	5	20	06/02/21 13:01	cgm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	18.7		*	mg/L	1	5	06/12/21 9:17	wtc
TDS (calculated)	Calculation		45.8			mg/L			06/21/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.00						06/21/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW-0

ACZ Sample ID: **L66148-08**

Date Sampled: 05/26/21 11:45

Date Received: 05/28/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								06/04/21 11:10	mfm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	<0.005	U		mg/L	0.005	0.015	06/09/21 18:13	mfm
Aluminum, total recoverable	M200.8 ICP-MS	1	<0.005	U	*	mg/L	0.005	0.015	06/08/21 18:17	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	06/09/21 18:13	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	06/08/21 18:17	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	06/09/21 18:13	mfm
Calcium, dissolved	M200.7 ICP	1	<0.1	U		mg/L	0.1	0.5	06/08/21 18:37	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	06/09/21 18:13	mfm
Iron, dissolved	M200.8 ICP-MS	1	<0.007	U	*	mg/L	0.007	0.02	06/09/21 18:13	mfm
Iron, total recoverable	M200.8 ICP-MS	1	<0.007	U	*	mg/L	0.007	0.02	06/08/21 18:17	bsu
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/09/21 18:13	mfm
Magnesium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	06/08/21 18:37	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	06/08/21 18:37	kja
Mercury, total	M1631E, Atomic Fluorescence	1	0.36	B		ng/L	0.3	1	06/07/21 14:59	enb
Potassium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	06/08/21 18:37	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/11/21 16:45	mfm
Sodium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	06/08/21 18:37	kja
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	06/08/21 18:37	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-0

ACZ Sample ID: **L66148-08**

Date Sampled: 05/26/21 11:45

Date Received: 05/28/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	06/05/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	06/05/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	06/05/21 0:00	eep
Total Alkalinity		1	<2	U	*	mg/L	2	20	06/05/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	<1	U	*	mg/L	1	5	06/16/21 20:05	ttg
Cation-Anion Balance	Calculation									
Cation-Anion Balance			n/a			%			06/21/21 0:00	calc
Sum of Anions			<	U		meq/L			06/21/21 0:00	calc
Sum of Cations			<	U		meq/L			06/21/21 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	06/14/21 9:44	syw
Fluoride	SM4500F-C	1	<0.15	U	*	mg/L	0.15	0.35	06/10/21 19:44	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		<0.2	U		mg/L	0.2	5	06/21/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	<0.02	U	*	mg/L	0.02	0.1	06/09/21 2:23	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	<20	U	*	mg/L	20	40	06/02/21 12:20	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	06/02/21 13:04	cgm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	<1	U	*	mg/L	1	5	06/12/21 9:20	wtc
TDS (calculated)	Calculation					mg/L			06/21/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		n/a						06/21/21 0:00	calc



Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L66148**

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
WG520427													
WG520427PBW1	PBW	06/04/21 20:18				U	mg/L		-20	20			
WG520427LCSW3	LCSW	06/04/21 20:37	WC210604-7	820.0001		796.4	mg/L	97	90	110			
WG520427LCSW6	LCSW	06/05/21 0:05	WC210604-7	820.0001		787.9	mg/L	96	90	110			
WG520427PBW2	PBW	06/05/21 0:12				U	mg/L		-20	20			
L66153-03DUP	DUP	06/05/21 1:13			U	U	mg/L				0	20	RA
WG520427LCSW9	LCSW	06/05/21 2:48	WC210604-7	820.0001		808.4	mg/L	99	90	110			
WG520427PBW3	PBW	06/05/21 2:55				U	mg/L		-20	20			
WG520427LCSW12	LCSW	06/05/21 6:17	WC210604-7	820.0001		811.9	mg/L	99	90	110			
WG520427PBW4	PBW	06/05/21 6:23				U	mg/L		-20	20			
WG520427LCSW15	LCSW	06/05/21 9:19	WC210604-7	820.0001		797.1	mg/L	97	90	110			
WG520620													
WG520620PBW1	PBW	06/08/21 20:19				5.7	mg/L		-20	20			
WG520620LCSW3	LCSW	06/08/21 20:36	WC210604-7	820.0001		786.6	mg/L	96	90	110			
L66148-01DUP	DUP	06/08/21 23:14			26.4	26.8	mg/L				2	20	
WG520620LCSW6	LCSW	06/08/21 23:32	WC210604-7	820.0001		782.4	mg/L	95	90	110			
WG520620PBW2	PBW	06/08/21 23:38				U	mg/L		-20	20			
L66244-06DUP	DUP	06/09/21 1:13			28	27.2	mg/L				3	20	
WG520620LCSW9	LCSW	06/09/21 3:07	WC210604-7	820.0001		801.3	mg/L	98	90	110			
WG520620PBW3	PBW	06/09/21 3:14				U	mg/L		-20	20			
WG520620LCSW12	LCSW	06/09/21 6:29	WC210604-7	820.0001		807.8	mg/L	99	90	110			
WG520620PBW4	PBW	06/09/21 6:35				U	mg/L		-20	20			
WG520620LCSW15	LCSW	06/09/21 9:35	WC210604-7	820.0001		813.6	mg/L	99	90	110			

Aluminum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520713													
WG520713ICV	ICV	06/09/21 17:42	MS210503-1	.1		.102	mg/L	102	90	110			
WG520713ICB	ICB	06/09/21 17:44				U	mg/L		-0.011	0.011			
WG520713LFB	LFB	06/09/21 17:46	MS210420-3	.050065		.0457	mg/L	91	85	115			
L66148-01AS	AS	06/09/21 17:55	MS210420-3	.050065	.0214	.068	mg/L	93	70	130			
L66148-01ASD	ASD	06/09/21 17:57	MS210420-3	.050065	.0214	.0668	mg/L	91	70	130	2	20	
L66149-02AS	AS	06/09/21 18:18	MS210420-3	.050065	U	.0423	mg/L	84	70	130			
L66149-02ASD	ASD	06/09/21 18:20	MS210420-3	.050065	U	.0421	mg/L	84	70	130	0	20	

Aluminum, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520580													
WG520580ICV	ICV	06/08/21 17:25	MS210503-1	.1		.1025	mg/L	103	90	110			
WG520580ICB	ICB	06/08/21 17:27				U	mg/L		-0.015	0.015			
WG520385LRB	LRB	06/08/21 17:29				U	mg/L		-0.011	0.011			
WG520385LFB	LFB	06/08/21 17:30	MS210420-3	.050065		.0469	mg/L	94	85	115			
L66146-04LFM	LFM	06/08/21 17:40	MS210420-3	.050065	14.8	14.7979	mg/L	-4	70	130			M3
L66146-04LFMD	LFMD	06/08/21 17:42	MS210420-3	.050065	14.8	14.8407	mg/L	81	70	130	0	20	
L66148-05LFM	LFM	06/08/21 18:09	MS210420-3	.050065	.24	.2708	mg/L	62	70	130			M3
L66148-05LFMD	LFMD	06/08/21 18:11	MS210420-3	.050065	.24	.2501	mg/L	20	70	130	8	20	M3

Ouray Silver Mines

ACZ Project ID: **L66148**

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.

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520713													
WG520713ICV	ICV	06/09/21 17:42	MS210503-1	.05		.04904	mg/L	98	90	110			
WG520713ICB	ICB	06/09/21 17:44				U	mg/L		-0.00044	0.00044			
WG520713LFB	LFB	06/09/21 17:46	MS210420-3	.05005		.04731	mg/L	95	85	115			
L66148-01AS	AS	06/09/21 17:55	MS210420-3	.05005	.00088	.05049	mg/L	99	70	130			
L66148-01ASD	ASD	06/09/21 17:57	MS210420-3	.05005	.00088	.05048	mg/L	99	70	130	0	20	
L66149-02AS	AS	06/09/21 18:18	MS210420-3	.05005	U	.04637	mg/L	93	70	130			
L66149-02ASD	ASD	06/09/21 18:20	MS210420-3	.05005	U	.04754	mg/L	95	70	130	2	20	

Arsenic, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520580													
WG520580ICV	ICV	06/08/21 17:25	MS210503-1	.05		.05159	mg/L	103	90	110			
WG520580ICB	ICB	06/08/21 17:27				U	mg/L		-0.0006	0.0006			
WG520385LRB	LRB	06/08/21 17:29				U	mg/L		-0.00044	0.00044			
WG520385LFB	LFB	06/08/21 17:30	MS210420-3	.05005		.04837	mg/L	97	85	115			
L66146-04LFM	LFM	06/08/21 17:40	MS210420-3	.05005	.00108	.04927	mg/L	96	70	130			
L66146-04LFMD	LFMD	06/08/21 17:42	MS210420-3	.05005	.00108	.04827	mg/L	94	70	130	2	20	
L66148-05LFM	LFM	06/08/21 18:09	MS210420-3	.05005	.00182	.05051	mg/L	97	70	130			
L66148-05LFMD	LFMD	06/08/21 18:11	MS210420-3	.05005	.00182	.0514	mg/L	99	70	130	2	20	

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520713													
WG520713ICV	ICV	06/09/21 17:42	MS210503-1	.05		.05083	mg/L	102	90	110			
WG520713ICB	ICB	06/09/21 17:44				U	mg/L		-0.00011	0.00011			
WG520713LFB	LFB	06/09/21 17:46	MS210420-3	.05005		.045821	mg/L	92	85	115			
L66148-01AS	AS	06/09/21 17:55	MS210420-3	.05005	.000238	.048275	mg/L	96	70	130			
L66148-01ASD	ASD	06/09/21 17:57	MS210420-3	.05005	.000238	.047957	mg/L	95	70	130	1	20	
L66149-02AS	AS	06/09/21 18:18	MS210420-3	.05005	U	.044599	mg/L	89	70	130			
L66149-02ASD	ASD	06/09/21 18:20	MS210420-3	.05005	U	.045321	mg/L	91	70	130	2	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520559													
WG520559ICV	ICV	06/08/21 17:36	II210514-2	100		100.08	mg/L	100	95	105			
WG520559ICB	ICB	06/08/21 17:42				U	mg/L		-0.3	0.3			
WG520559LFB	LFB	06/08/21 17:56	II210601-2	67.98753		67.5	mg/L	99	85	115			
L66148-03AS	AS	06/08/21 18:12	II210601-2	67.98753	12.4	78.89	mg/L	98	85	115			
L66148-03ASD	ASD	06/08/21 18:15	II210601-2	67.98753	12.4	79.32	mg/L	98	85	115	1	20	

Ouray Silver Mines

ACZ Project ID: **L66148**

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.

Carbon, dissolved organic (DOC) SM5310B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519681													
WG519681ICV	ICV	05/21/21 18:53	WI210521-3	100		101.3	mg/L	101	90	110			
WG519681ICB	ICB	05/21/21 19:05				U	mg/L		-3	3			
WG521135													
WG521135LFB	LFB	06/16/21 11:33	WI210128-1	50		47.2	mg/L	94	90	110			
L66130-10DUP	DUP	06/16/21 15:09			U	U	mg/L				0	20	RA
L66130-11AS	AS	06/16/21 15:34	WI210128-1	50	1.1	50	mg/L	98	90	110			
WG521136													
WG521136LFB	LFB	06/16/21 18:39	WI210128-1	50		48.2	mg/L	96	90	110			
L66148-04DUP	DUP	06/16/21 19:03			1.1	1	mg/L				10	20	RA
L66148-05AS	AS	06/16/21 19:29	WI210128-1	50	1.3	51.1	mg/L	100	90	110			

Chloride SM4500Cl-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520959													
WG520959ICB	ICB	06/14/21 8:58				U	mg/L		-1.5	1.5			
WG520959ICV	ICV	06/14/21 8:58	WI210503-1	54.89		53.79	mg/L	98	90	110			
WG520959LFB1	LFB	06/14/21 9:40	WI200327-3	30.03		30.04	mg/L	100	90	110			
L66148-01AS	AS	06/14/21 9:42	WI200327-3	30.03	1.07	31.79	mg/L	102	90	110			
L66148-02DUP	DUP	06/14/21 9:42			1.13	1.03	mg/L				9	20	RA
WG520959LFB2	LFB	06/14/21 9:44	WI200327-3	30.03		29.87	mg/L	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
WG520713													
WG520713ICV	ICV	06/09/21 17:42	MS210503-1	.05		.05126	mg/L	103	90	110			
WG520713ICB	ICB	06/09/21 17:44				U	mg/L		-0.00176	0.00176			
WG520713LFB	LFB	06/09/21 17:46	MS210420-3	.05		.04821	mg/L	96	85	115			
L66148-01AS	AS	06/09/21 17:55	MS210420-3	.05	.00101	.0478	mg/L	94	70	130			
L66148-01ASD	ASD	06/09/21 17:57	MS210420-3	.05	.00101	.04817	mg/L	94	70	130	1	20	
L66149-02AS	AS	06/09/21 18:18	MS210420-3	.05	.00107	.04091	mg/L	80	70	130			
L66149-02ASD	ASD	06/09/21 18:20	MS210420-3	.05	.00107	.04113	mg/L	80	70	130	1	20	

Ouray Silver Mines

ACZ Project ID: **L66148**

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.

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520771													
WG520771ICV	ICV	06/10/21 11:30	WC210609-3	2.002		2.15	mg/L	107	90	110			
WG520771ICB	ICB	06/10/21 11:34				U	mg/L		-0.3	0.3			
WG520772													
WG520772ICV	ICV	06/10/21 16:52	WC210609-3	2.002		2.18	mg/L	109	90	110			
WG520772ICB	ICB	06/10/21 17:00				U	mg/L		-0.3	0.3			
WG520772LFB1	LFB	06/10/21 17:07	WC201221-2	5.015		5.21	mg/L	104	90	110			
L66037-01AS	AS	06/10/21 17:42	WC201221-2	5.015	U	5.21	mg/L	104	90	110			
L66037-01ASD	ASD	06/10/21 17:45	WC201221-2	5.015	U	5.18	mg/L	103	90	110	1	20	
L66148-03AS	AS	06/10/21 18:51	WC201221-2	5.015	U	5.11	mg/L	102	90	110			
L66148-03ASD	ASD	06/10/21 18:58	WC201221-2	5.015	U	5.14	mg/L	102	90	110	1	20	
WG520772LFB2	LFB	06/10/21 20:19	WC201221-2	5.015		5.28	mg/L	105	90	110			

Iron, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520713													
WG520713ICV	ICV	06/09/21 17:42	MS210503-1	.10016		.1007	mg/L	101	90	110			
WG520713ICB	ICB	06/09/21 17:44				U	mg/L		-0.0154	0.0154			
WG520713LFB	LFB	06/09/21 17:46	MS210420-3	.0501		.0471	mg/L	94	85	115			
L66148-01AS	AS	06/09/21 17:55	MS210420-3	.0501	.0121	.0554	mg/L	86	70	130			
L66148-01ASD	ASD	06/09/21 17:57	MS210420-3	.0501	.0121	.057	mg/L	90	70	130	3	20	
L66149-02AS	AS	06/09/21 18:18	MS210420-3	.0501	.204	.2548	mg/L	101	70	130			
L66149-02ASD	ASD	06/09/21 18:20	MS210420-3	.0501	.204	.2529	mg/L	98	70	130	1	20	

Iron, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520580													
WG520580ICV	ICV	06/08/21 17:25	MS210503-1	.10016		.1002	mg/L	100	90	110			
WG520580ICB	ICB	06/08/21 17:27				U	mg/L		-0.021	0.021			
WG520385LRB	LRB	06/08/21 17:29				U	mg/L		-0.0154	0.0154			
WG520385LFB	LFB	06/08/21 17:30	MS210420-3	.0501		.0487	mg/L	97	85	115			
L66146-04LFM	LFM	06/08/21 17:40	MS210420-3	.0501	187	188.9374	mg/L	3867	70	130			M3
L66146-04LFMD	LFMD	06/08/21 17:42	MS210420-3	.0501	187	187.7665	mg/L	1530	70	130	1	20	M3
L66148-05LFM	LFM	06/08/21 18:09	MS210420-3	.0501	.204	.2352	mg/L	62	70	130			M3
L66148-05LFMD	LFMD	06/08/21 18:11	MS210420-3	.0501	.204	.2282	mg/L	48	70	130	3	20	M3

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520713													
WG520713ICV	ICV	06/09/21 17:42	MS210503-1	.05		.05152	mg/L	103	90	110			
WG520713ICB	ICB	06/09/21 17:44				U	mg/L		-0.00022	0.00022			
WG520713LFB	LFB	06/09/21 17:46	MS210420-3	.05005		.047	mg/L	94	85	115			
L66148-01AS	AS	06/09/21 17:55	MS210420-3	.05005	.00066	.04806	mg/L	95	70	130			
L66148-01ASD	ASD	06/09/21 17:57	MS210420-3	.05005	.00066	.04804	mg/L	95	70	130	0	20	
L66149-02AS	AS	06/09/21 18:18	MS210420-3	.05005	U	.0499	mg/L	100	70	130			
L66149-02ASD	ASD	06/09/21 18:20	MS210420-3	.05005	U	.05068	mg/L	101	70	130	2	20	

Ouray Silver Mines

ACZ Project ID: **L66148**

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.

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520559													
WG520559ICV	ICV	06/08/21 17:36	II210514-2	100		98.57	mg/L	99	95	105			
WG520559ICB	ICB	06/08/21 17:42				U	mg/L		-0.6	0.6			
WG520559LFB	LFB	06/08/21 17:56	II210601-2	50.00302		48.22	mg/L	96	85	115			
L66148-03AS	AS	06/08/21 18:12	II210601-2	50.00302	1.03	49.22	mg/L	96	85	115			
L66148-03ASD	ASD	06/08/21 18:15	II210601-2	50.00302	1.03	49.43	mg/L	97	85	115	0	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520559													
WG520559ICV	ICV	06/08/21 17:36	II210514-2	2		1.953	mg/L	98	95	105			
WG520559ICB	ICB	06/08/21 17:42				U	mg/L		-0.03	0.03			
WG520559LFB	LFB	06/08/21 17:56	II210601-2	.5005		.478	mg/L	96	85	115			
L66148-03AS	AS	06/08/21 18:12	II210601-2	.5005	U	.478	mg/L	96	85	115			
L66148-03ASD	ASD	06/08/21 18:15	II210601-2	.5005	U	.479	mg/L	96	85	115	0	20	

Mercury, total

M1631E, Atomic Fluorescence

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG510539													
WG510539ICV	ICV	12/02/20 11:56	HG201005-4	10		8.76	ng/L	88	79	121			
WG510539ICB	ICB	12/02/20 12:01				U	ng/L		-0.501	0.501			
WG520476													
WG520476CCV1	CCV	06/07/21 12:54	HG210407-4	10		8.07	ng/L	81	76.5	123.4			
WG520476CCB1	CCB	06/07/21 12:59				U	ng/L		-0.501	0.501			
WG520476PQV	PQV	06/07/21 13:04	HG210407-6	1		1.25	ng/L	125	70	130			
WG520476LFB	LFB	06/07/21 13:08	HG210407-5	2		2.09	ng/L	105	71	125			
L66074-05MS	MS	06/07/21 13:18	HG210407-5	2	U	2.11	ng/L	106	71	125			
L66074-05MSD	MSD	06/07/21 13:23	HG210407-5	2	U	1.94	ng/L	97	71	125	8	24	
WG520476CCV2	CCV	06/07/21 14:01	HG210407-4	10		8.24	ng/L	82	76.5	123.4			
WG520476CCB2	CCB	06/07/21 14:06				U	ng/L		-0.501	0.501			
L66148-03MS	MS	06/07/21 14:25	HG210407-5	2	1.68	3.78	ng/L	105	71	125			
L66148-03MSD	MSD	06/07/21 14:30	HG210407-5	2	1.68	3.94	ng/L	113	71	125	4	24	
WG520476CCV3	CCV	06/07/21 15:04	HG210407-4	10		7.72	ng/L	77	76.5	123.4			
WG520476CCB3	CCB	06/07/21 15:08				U	ng/L		-0.501	0.501			

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520623													
WG520623ICV	ICV	06/09/21 0:19	WI210603-7	2.416		2.298	mg/L	95	90	110			
WG520623ICB	ICB	06/09/21 0:20				U	mg/L		-0.02	0.02			
WG520625													
WG520625LFB	LFB	06/09/21 1:55	WI210331-13	2		2.152	mg/L	108	90	110			
L65069-10DUP	DUP	06/09/21 2:01			U	U	mg/L				0	20	RA
L66148-05AS	AS	06/09/21 2:18	WI210331-13	2	.204	2.335	mg/L	107	90	110			
L66148-06DUP	DUP	06/09/21 2:20			2.1	2.095	mg/L				0	20	
L65068-10AS	AS	06/09/21 2:34	WI210331-13	2	U	2.095	mg/L	105	90	110			

Ouray Silver Mines

ACZ Project ID: **L66148**

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.

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520559													
WG520559ICV	ICV	06/08/21 17:36	II210514-2	20		19.95	mg/L	100	95	105			
WG520559ICB	ICB	06/08/21 17:42				U	mg/L		-0.6	0.6			
WG520559LFB	LFB	06/08/21 17:56	II210601-2	100.0157		97.26	mg/L	97	85	115			
L66148-03AS	AS	06/08/21 18:12	II210601-2	100.0157	U	97.47	mg/L	97	85	115			
L66148-03ASD	ASD	06/08/21 18:15	II210601-2	100.0157	U	97.91	mg/L	98	85	115	0	20	

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520265													
WG520265PBW	PBW	06/02/21 12:10				U	mg/L		-20	20			
WG520265LCSW	LCSW	06/02/21 12:12	PCN63554	1000		1002	mg/L	100	80	120			
L66149-01DUP	DUP	06/02/21 12:25			3010	3014	mg/L				0	10	
WG520490													
WG520490PBW	PBW	06/07/21 12:55				U	mg/L		-20	20			
WG520490LCSW	LCSW	06/07/21 12:57	PCN63555	1000		950	mg/L	95	80	120			
L66204-05DUP	DUP	06/07/21 13:26			1190	1190	mg/L				0	10	
WG520660													
WG520660PBW	PBW	06/09/21 10:50				U	mg/L		-20	20			
WG520660LCSW	LCSW	06/09/21 10:53	PCN63556	1000		992	mg/L	99	80	120			
L66342-01DUP	DUP	06/09/21 12:15			72	74	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
WG520175													
WG520175PBW	PBW	06/01/21 9:25				U	mg/L		-5	5			
WG520175LCSW	LCSW	06/01/21 9:27	PCN63554	100		86	mg/L	86	80	120			
L66148-03DUP	DUP	06/01/21 10:30			9	8	mg/L				12	10	RA
WG520270													
WG520270PBW	PBW	06/02/21 12:45				U	mg/L		-5	5			
WG520270LCSW	LCSW	06/02/21 12:48	PCN63553	100		82	mg/L	82	80	120			
L66148-08DUP	DUP	06/02/21 13:07			U	U	mg/L				0	10	RA

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520911													
WG520911ICV	ICV	06/11/21 16:16	MS210503-1	.02		.01963	mg/L	98	90	110			
WG520911ICB	ICB	06/11/21 16:18				U	mg/L		-0.00022	0.00022			
WG520911LFB	LFB	06/11/21 16:20	MS210610-2	.01002		.01016	mg/L	101	85	115			
L66148-03AS	AS	06/11/21 16:31	MS210610-2	.01002	U	.00945	mg/L	94	70	130			
L66148-03ASD	ASD	06/11/21 16:32	MS210610-2	.01002	U	.00984	mg/L	98	70	130	4	20	

Ouray Silver Mines

ACZ Project ID: **L66148**

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.

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520559													
WG520559ICV	ICV	06/08/21 17:36	II210514-2	100		98.72	mg/L	99	95	105			
WG520559ICB	ICB	06/08/21 17:42				U	mg/L		-0.6	0.6			
WG520559LFB	LFB	06/08/21 17:56	II210601-2	100.0605		96.63	mg/L	97	85	115			
L66148-03AS	AS	06/08/21 18:12	II210601-2	100.0605	.42	97	mg/L	97	85	115			
L66148-03ASD	ASD	06/08/21 18:15	II210601-2	100.0605	.42	97.36	mg/L	97	85	115	0	20	

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520902													
WG520902ICB	ICB	06/12/21 9:04				U	mg/L		-3	3			
WG520902ICV	ICV	06/12/21 9:04	WI210531-2	20.46		19.4	mg/L	95	90	110			
L66148-01DUP	DUP	06/12/21 9:17			33	32.7	mg/L				1	20	
WG520902LFB	LFB	06/12/21 9:55	WI210105-3	10		9.5	mg/L	95	90	110			
L66148-02AS	AS	06/12/21 9:56	SO4TURB5X	10	34.9	42.4	mg/L	75	90	110			M2

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520559													
WG520559ICV	ICV	06/08/21 17:36	II210514-2	2		1.977	mg/L	99	95	105			
WG520559ICB	ICB	06/08/21 17:42				U	mg/L		-0.06	0.06			
WG520559LFB	LFB	06/08/21 17:56	II210601-2	.50075		.48	mg/L	96	85	115			
L66148-03AS	AS	06/08/21 18:12	II210601-2	.50075	U	.498	mg/L	99	85	115			
L66148-03ASD	ASD	06/08/21 18:15	II210601-2	.50075	U	.503	mg/L	100	85	115	1	20	

Ouray Silver MinesACZ Project ID: **L66148**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66148-01	WG520580	Aluminum, total recoverable	M200.8 ICP-MS	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.
	WG520620	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG521135	Carbon, dissolved organic (DOC)	SM5310B	Q6	Sample was received above recommended temperature.
			SM5310B	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).
	WG520620	Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG520959	Chloride	SM4500Cl-E	Q6	Sample was received above recommended temperature.
			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).
	WG520772	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
	WG520620	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG520580	Iron, total recoverable	M200.8 ICP-MS	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.
	WG520625	Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	Q6	Sample was received above recommended temperature.
			M353.2 - H ₂ SO ₄ preserved	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).
	WG520490	Residue, Filterable (TDS) @180C	SM2540C	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.
			SM2540C	Q6	Sample was received above recommended temperature.
	WG520175	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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).
	WG520902	Sulfate	SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
			D516-02/-07/-11 - TURBIDIMETRIC	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG520620	Total Alkalinity	D516-02/-07/-11 - TURBIDIMETRIC	Q6	Sample was received above recommended temperature.
			SM2320B - Titration	Q6	Sample was received above recommended temperature.

Ouray Silver MinesACZ Project ID: **L66148**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66148-02	WG520580	Aluminum, total recoverable	M200.8 ICP-MS	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.
	WG520620	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG521135	Carbon, dissolved organic (DOC)	SM5310B	Q6	Sample was received above recommended temperature.
			SM5310B	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).
	WG520620	Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG520959	Chloride	SM4500Cl-E	Q6	Sample was received above recommended temperature.
			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).
	WG520772	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
	WG520620	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG520580	Iron, total recoverable	M200.8 ICP-MS	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.
	WG520625	Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	Q6	Sample was received above recommended temperature.
			M353.2 - H ₂ SO ₄ preserved	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).
	WG520490	Residue, Filterable (TDS) @180C	SM2540C	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.
			SM2540C	Q6	Sample was received above recommended temperature.
	WG520175	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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).
	WG520902	Sulfate	SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
			D516-02/-07/-11 - TURBIDIMETRIC	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG520620	Total Alkalinity	D516-02/-07/-11 - TURBIDIMETRIC	Q6	Sample was received above recommended temperature.
			SM2320B - Titration	Q6	Sample was received above recommended temperature.

Ouray Silver Mines

ACZ Project ID: **L66148**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66148-03	WG520580	Aluminum, total recoverable	M200.8 ICP-MS	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.
	WG520620	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG521135	Carbon, dissolved organic (DOC)	SM5310B	Q6	Sample was received above recommended temperature.
			SM5310B	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).
	WG520620	Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG520959	Chloride	SM4500Cl-E	Q6	Sample was received above recommended temperature.
			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).
	WG520772	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
	WG520620	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG520580	Iron, total recoverable	M200.8 ICP-MS	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.
	WG520625	Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	Q6	Sample was received above recommended temperature.
			M353.2 - H ₂ SO ₄ preserved	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).
	WG520490	Residue, Filterable (TDS) @180C	SM2540C	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.
			SM2540C	Q6	Sample was received above recommended temperature.
	WG520175	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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).
	WG520902	Sulfate	SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
			D516-02/-07/-11 - TURBIDIMETRIC	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG520620	Total Alkalinity	D516-02/-07/-11 - TURBIDIMETRIC	Q6	Sample was received above recommended temperature.
			SM2320B - Titration	Q6	Sample was received above recommended temperature.

Ouray Silver MinesACZ Project ID: **L66148**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66148-04	WG520580	Aluminum, total recoverable	M200.8 ICP-MS	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.
	WG520620	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG521136	Carbon, dissolved organic (DOC)	SM5310B	Q6	Sample was received above recommended temperature.
			SM5310B	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).
	WG520620	Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG520959	Chloride	SM4500Cl-E	Q6	Sample was received above recommended temperature.
			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).
	WG520772	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
	WG520620	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG520580	Iron, total recoverable	M200.8 ICP-MS	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.
	WG520625	Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	Q6	Sample was received above recommended temperature.
			M353.2 - H ₂ SO ₄ preserved	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).
	WG520490	Residue, Filterable (TDS) @180C	SM2540C	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.
			SM2540C	Q6	Sample was received above recommended temperature.
	WG520270	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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).
	WG520902	Sulfate	SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
			D516-02/-07/-11 - TURBIDIMETRIC	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG520620	Total Alkalinity	D516-02/-07/-11 - TURBIDIMETRIC	Q6	Sample was received above recommended temperature.
			SM2320B - Titration	Q6	Sample was received above recommended temperature.

Ouray Silver MinesACZ Project ID: **L66148**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66148-05	WG520580	Aluminum, total recoverable	M200.8 ICP-MS	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.
	WG520620	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG521136	Carbon, dissolved organic (DOC)	SM5310B	Q6	Sample was received above recommended temperature.
			SM5310B	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).
	WG520620	Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG520959	Chloride	SM4500Cl-E	Q6	Sample was received above recommended temperature.
			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).
	WG520772	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
	WG520620	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG520580	Iron, total recoverable	M200.8 ICP-MS	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.
	WG520625	Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	Q6	Sample was received above recommended temperature.
	WG520490	Residue, Filterable (TDS) @180C	SM2540C	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.
			SM2540C	Q6	Sample was received above recommended temperature.
			SM2540D	Q6	Sample was received above recommended temperature.
	WG520270	Residue, Non-Filterable (TSS) @105C	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
			SM2540D	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG520902	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	Q6	Sample was received above recommended temperature.
			D516-02/-07/-11 - TURBIDIMETRIC		
	WG520620	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

Ouray Silver Mines

ACZ Project ID: **L66148**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66148-06	WG520580	Aluminum, total recoverable	M200.8 ICP-MS	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.
	WG520427	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG521136	Carbon, dissolved organic (DOC)	SM5310B	Q6	Sample was received above recommended temperature.
			SM5310B	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).
	WG520427	Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG520959	Chloride	SM4500Cl-E	Q6	Sample was received above recommended temperature.
			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).
	WG520772	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
	WG520427	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG520580	Iron, total recoverable	M200.8 ICP-MS	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.
	WG520625	Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	Q6	Sample was received above recommended temperature.
	WG520660	Residue, Filterable (TDS) @180C	SM2540C	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.
			SM2540C	Q6	Sample was received above recommended temperature.
			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).
	WG520270	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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
	WG520902	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07/-11 - TURBIDIMETRIC	Q6	Sample was received above recommended temperature.
	WG520427	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.
			SM2320B - Titration	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).

Ouray Silver Mines

ACZ Project ID: **L66148**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66148-07	WG520580	Aluminum, total recoverable	M200.8 ICP-MS	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.
	WG520427	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG521136	Carbon, dissolved organic (DOC)	SM5310B	Q6	Sample was received above recommended temperature.
			SM5310B	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).
	WG520427	Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG520959	Chloride	SM4500Cl-E	Q6	Sample was received above recommended temperature.
			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).
	WG520772	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
	WG520427	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG520580	Iron, total recoverable	M200.8 ICP-MS	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.
	WG520625	Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	Q6	Sample was received above recommended temperature.
	WG520490	Residue, Filterable (TDS) @180C	SM2540C	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.
			SM2540C	Q6	Sample was received above recommended temperature.
			SM2540C	Z3	Sample volume yielded a residue less than 2.5 mg
	WG520270	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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
	WG520902	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07/-11 - TURBIDIMETRIC	Q6	Sample was received above recommended temperature.
	WG520427	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.
			SM2320B - Titration	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).

Ouray Silver MinesACZ Project ID: **L66148**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66148-08	WG520580	Aluminum, total recoverable	M200.8 ICP-MS	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.
	WG520427	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG521136	Carbon, dissolved organic (DOC)	SM5310B	Q6	Sample was received above recommended temperature.
			SM5310B	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).
	WG520427	Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG520959	Chloride	SM4500Cl-E	Q6	Sample was received above recommended temperature.
			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).
	WG520772	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
	WG520427	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG520580	Iron, total recoverable	M200.8 ICP-MS	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.
			M353.2 - H ₂ SO ₄ preserved	Q6	Sample was received above recommended temperature.
			SM2540C	Q6	Sample was received above recommended temperature.
			SM2540C	Z3	Sample volume yielded a residue less than 2.5 mg
			SM2540D	Q6	Sample was received above recommended temperature.
				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
	WG520902	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07/-11 - TURBIDIMETRIC	Q6	Sample was received above recommended temperature.
	WG520427	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.
			SM2320B - Titration	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).

Ouray Silver Mines

ACZ Project ID: **L66148**

Metals Analysis

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Iron, dissolved	M200.8 ICP-MS
Iron, total recoverable	M200.8 ICP-MS

Ouray Silver Mines

ACZ Project ID: L66148

Date Received: 05/28/2021 12:00

Received By:

Date Printed: 6/1/2021

Receipt Verification

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

Samples/Containers

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

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?
-----	-----	-----	-----	-----
6553	13.2	<=6.0	15	N/A

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s) but was thawed by receipt at ACZ.

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

Ouray Silver Mines

ACZ Project ID: L66148

Date Received: 05/28/2021 12:00

Received By:

Date Printed: 6/1/2021

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).

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

Report to:

Name: <i>Briana Greer</i>		Address:
Company: <i>Solid Solutions Geotech</i>		
E-mail: <i>briana@solid-solutions-geotech.com</i>		Telephone:

Copy of Report to:

Name: <u>Chris Bolane</u>	E-mail: <u>PureWater.email@gmail.com</u>
Company: <u>Pure Water Systems</u>	Telephone: _____

Invoice to:

Name: Ashlee Briggs	Address: Telephone:
Company: Curay Silver Mines Inc	
E-mail: ashlee@curay-silvermines.com	

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	☒
NO	☐

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

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

Sampler's Name: Chris Sampler's Site Information State CO Zip code 81425 Time Zone MT

***Sampler's Signature:**

Sampler's Site Information

Stat

Zip

Zip code

e 8

145

DT

Time :

Zone

is

***Sampler's 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

ANALYSES REQUESTED (attach list or use quote number)

[illegible]

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

REMARKS

*SW-16 not filtered

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

RELINQUISHED BY:

DATE:TIME

RECEIVED BY:

DATE:TIME

Chris	5/26 1600	4PS	5/26 1600
			5/26/21 12:00

June 30, 2021

Report to:

Briana Greer
Ouray Silver Mines
285 S. Madison Ave.

Louisville, CO 80027

cc: Accounts Payable, Chris Bolane

Bill to:

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

Project ID:

ACZ Project ID: L66294

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 04, 2021. This project has been assigned to ACZ's project number, L66294. Please reference this number in all future inquiries.

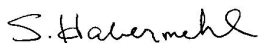
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L66294. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 July 30, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

June 30, 2021

Project ID:

ACZ Project ID: L66294

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 4 miscellaneous samples from Ouray Silver Mines on June 4, 2021. 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 L66294. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for inorganic, organic 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. (N1) Applies to: L66294-03 /2-FLUOROPHENOL

Surrogate recovery was below laboratory and method acceptance limits. Surrogate recover of associated sample duplicate was within acceptance limits.

2. (R1) /1,2-DICHLOROBENZENE /1,3-DICHLOROBENZENE /1,4-DICHLOROBENZENE /1,4-DIOXANE /HEXACHLOROETHANE

Relative Percent Difference for Control Samples exceeded laboratory acceptance limits. Both spike recoveries met acceptance criteria.

Ouray Silver Mines

Project ID:

Sample ID: OF002A

ACZ Sample ID: **L66294-04**

Date Sampled: 06/03/21 08:30

Date Received: 06/04/21

Sample Matrix: Waste Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002- 31.5.31 (2009)								06/07/21 16:23	bsu
Cyanide, WAD	SM4500-CN I- distillation		-						06/11/21 14:00	md
Total Hot Plate Digestion	M200.2 ICP								06/13/21 11:11	kja
Total Recoverable Digestion	M200.2 ICP								06/13/21 15:57	kja

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, potentially dissolved	M200.8 ICP-MS	1	0.000347			mg/L	0.00005	0.00025	06/15/21 12:34	mfm
Copper, potentially dissolved	M200.8 ICP-MS	1	0.00308			mg/L	0.0008	0.002	06/15/21 12:34	mfm
Iron, total recoverable	M200.7 ICP	1	0.305			mg/L	0.06	0.15	06/14/21 14:34	kja
Lead, potentially dissolved	M200.8 ICP-MS	1	0.0149			mg/L	0.0001	0.0005	06/15/21 12:34	mfm
Lead, total	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.15	06/14/21 12:53	kja
Manganese, potentially dissolved	M200.8 ICP-MS	1	0.941			mg/L	0.0004	0.002	06/15/21 12:34	mfm
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	06/09/21 10:07	mlh
Silver, potentially dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/15/21 12:34	mfm
Zinc, potentially dissolved	M200.8 ICP-MS	1	0.0622			mg/L	0.006	0.015	06/15/21 12:34	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	06/12/21 0:06	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	06/09/21 0:00	eep
pH measured at		1	19.4			C	0.1	0.1	06/09/21 0:00	eep
Residue, Non- Filterable (TSS) @105C	SM2540D	1	6.0	B	*	mg/L	5	20	06/08/21 18:10	scd



Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L66294**

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.

Cadmium, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521070													
WG521070ICV	ICV	06/15/21 12:07	MS210503-1	.05		.053004	mg/L	106	90	110			
WG521070ICB	ICB	06/15/21 12:08				U	mg/L		-0.00011	0.00011			
WG521070LFB	LFB	06/15/21 12:10	MS210610-2	.05005		.050066	mg/L	100	85	115			
WG520442PBW	PBW	06/15/21 12:12				U	mg/L		-0.00015	0.00015			
WG520602PBW	PBW	06/15/21 12:16				U	mg/L		-0.00015	0.00015			
L66250-01AS	AS	06/15/21 12:19	MS210610-2	.05005	U	.050389	mg/L	101	70	130			
L66250-01ASD	ASD	06/15/21 12:21	MS210610-2	.05005	U	.052624	mg/L	105	70	130	4	20	

Copper, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521070													
WG521070ICV	ICV	06/15/21 12:07	MS210503-1	.05		.05479	mg/L	110	90	110			
WG521070ICB	ICB	06/15/21 12:08				U	mg/L		-0.00176	0.00176			
WG521070LFB	LFB	06/15/21 12:10	MS210610-2	.05		.05312	mg/L	106	85	115			
WG520442PBW	PBW	06/15/21 12:12				U	mg/L		-0.0024	0.0024			
WG520602PBW	PBW	06/15/21 12:16				U	mg/L		-0.0024	0.0024			
L66250-01AS	AS	06/15/21 12:19	MS210610-2	.05	.0336	.07936	mg/L	92	70	130			
L66250-01ASD	ASD	06/15/21 12:21	MS210610-2	.05	.0336	.08396	mg/L	101	70	130	6	20	

Cyanide, WAD

SM4500-CN I,E-Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520920													
WG520920ICV	ICV	06/11/21 23:02	WI210601-6	.3		.2995	mg/L	100	90	110			
WG520920ICB	ICB	06/11/21 23:02				U	mg/L		-0.003	0.003			
WG520922													
WG520745LRB	LRB	06/11/21 23:51				U	mg/L		-0.003	0.003			
WG520745LFB	LFB	06/11/21 23:52	WI210601-3	.2		.1935	mg/L	97	90	110			
L66315-04DUP	DUP	06/12/21 0:15			.0034	U	mg/L				200	20	RA
L66333-02LFM	LFM	06/12/21 0:17	WI210601-3	.2	U	.1998	mg/L	100	90	110			

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520970													
WG520970ICV	ICV	06/14/21 12:45	II210608-1	2		1.969	mg/L	98	95	105			
WG520970ICB	ICB	06/14/21 12:51				U	mg/L		-0.18	0.18			
WG520944LRB	LRB	06/14/21 13:04				U	mg/L		-0.132	0.132			
WG520944LFB	LFB	06/14/21 13:08	II210601-2	1.0018		1.022	mg/L	102	85	115			
L66243-05LFM	LFM	06/14/21 14:24	II210601-2	1.0018	U	1.029	mg/L	103	70	130			
L66243-05LFMD	LFMD	06/14/21 14:28	II210601-2	1.0018	U	1.02	mg/L	102	70	130	1	20	

Ouray Silver Mines

ACZ Project ID: **L66294**

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.

Lead, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521070													
WG521070ICV	ICV	06/15/21 12:07	MS210503-1	.05		.0525	mg/L	105	90	110			
WG521070ICB	ICB	06/15/21 12:08				U	mg/L		-0.00022	0.00022			
WG521070LFB	LFB	06/15/21 12:10	MS210610-2	.05005		.04984	mg/L	100	85	115			
WG520442PBW	PBW	06/15/21 12:12				U	mg/L		-0.0003	0.0003			
WG520602PBW	PBW	06/15/21 12:16				U	mg/L		-0.0003	0.0003			
L66250-01AS	AS	06/15/21 12:19	MS210610-2	.05005	.00049	.04881	mg/L	97	70	130			
L66250-01ASD	ASD	06/15/21 12:21	MS210610-2	.05005	.00049	.05087	mg/L	101	70	130	4	20	

Lead, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520971													
WG520971ICV	ICV	06/14/21 12:26	II210524-1	4		3.857	mg/L	96	95	105			
WG520971ICB	ICB	06/14/21 12:32				U	mg/L		-0.09	0.09			
WG520945LRB	LRB	06/14/21 12:44				U	mg/L		-0.066	0.066			
WG520945LFB	LFB	06/14/21 12:47	II210601-2	1.0014		.961	mg/L	96	85	115			
L66301-01LFM	LFM	06/14/21 13:09	II210601-2	1.0014	.031	.951	mg/L	92	70	130			
L66301-01LFMD	LFMD	06/14/21 13:12	II210601-2	1.0014	.031	.945	mg/L	91	70	130	1	20	

Manganese, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521070													
WG521070ICV	ICV	06/15/21 12:07	MS210503-1	.05		.05306	mg/L	106	90	110			
WG521070ICB	ICB	06/15/21 12:08				U	mg/L		-0.00088	0.00088			
WG521070LFB	LFB	06/15/21 12:10	MS210610-2	.0499		.05092	mg/L	102	85	115			
WG520442PBW	PBW	06/15/21 12:12				U	mg/L		-0.0012	0.0012			
WG520602PBW	PBW	06/15/21 12:16				U	mg/L		-0.0012	0.0012			
L66250-01AS	AS	06/15/21 12:19	MS210610-2	.0499	.0185	.06711	mg/L	97	70	130			
L66250-01ASD	ASD	06/15/21 12:21	MS210610-2	.0499	.0185	.06885	mg/L	101	70	130	3	20	

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520574													
WG520574ICV	ICV	06/09/21 9:37	HG210601-3	.00501		.00526	mg/L	105	95	105			
WG520574ICB	ICB	06/09/21 9:38				U	mg/L		-0.0002	0.0002			
WG520574LRB	LRB	06/09/21 9:40				U	mg/L		-0.00044	0.00044			
WG520574LFB	LFB	06/09/21 9:40	HG210601-6	.002002		.0019	mg/L	95	85	115			
L66287-03LFM	LFM	06/09/21 9:58	HG210601-6	.002002	U	.00198	mg/L	99	85	115			
L66287-03LFMD	LFMD	06/09/21 10:01	HG210601-6	.002002	U	.00199	mg/L	99	85	115	1	20	

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520620													
WG520620LCSW1	LCSW	06/08/21 20:23	PCN61687	6		6	units	100	5.9	6.1			
WG520620LCSW4	LCSW	06/08/21 23:19	PCN61687	6		6	units	100	5.9	6.1			
WG520620LCSW7	LCSW	06/09/21 2:53	PCN61687	6		6.1	units	102	5.9	6.1			
WG520620LCSW10	LCSW	06/09/21 6:14	PCN61687	6		6.1	units	102	5.9	6.1			
L66287-01DUP	DUP	06/09/21 7:23			8	8	units				0	20	
WG520620LCSW13	LCSW	06/09/21 9:21	PCN61687	6		6.1	units	102	5.9	6.1			

Ouray Silver Mines

ACZ Project ID: **L66294**

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.

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

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG520619													
WG520619PBW	PBW	06/08/21 17:55				U	mg/L		-5	5			
WG520619LCSW	LCSW	06/08/21 17:56	PCN63556	100		87	mg/L	87	80	120			
L66287-03DUP	DUP	06/08/21 18:08			26	29	mg/L				11	10	RA

Silver, potentially dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521070													
WG521070ICV	ICV	06/15/21 12:07	MS210503-1	.02		.02051	mg/L	103	90	110			
WG521070ICB	ICB	06/15/21 12:08				U	mg/L		-0.00022	0.00022			
WG521070LFB	LFB	06/15/21 12:10	MS210610-2	.01002		.00953	mg/L	95	85	115			
WG520442PBW	PBW	06/15/21 12:12				U	mg/L		-0.0003	0.0003			
WG520602PBW	PBW	06/15/21 12:16				U	mg/L		-0.0003	0.0003			
L66250-01AS	AS	06/15/21 12:19	MS210610-2	.01002	U	.00833	mg/L	83	70	130			
L66250-01ASD	ASD	06/15/21 12:21	MS210610-2	.01002	U	.00818	mg/L	82	70	130	2	20	

Zinc, potentially dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521070													
WG521070ICV	ICV	06/15/21 12:07	MS210503-1	.05		.0541	mg/L	108	90	110			
WG521070ICB	ICB	06/15/21 12:08				U	mg/L		-0.0132	0.0132			
WG521070LFB	LFB	06/15/21 12:10	MS210610-2	.050075		.0545	mg/L	109	85	115			
WG520442PBW	PBW	06/15/21 12:12				U	mg/L		-0.018	0.018			
WG520602PBW	PBW	06/15/21 12:16				U	mg/L		-0.018	0.018			
L66250-01AS	AS	06/15/21 12:19	MS210610-2	.050075	.0527	.1062	mg/L	107	70	130			
L66250-01ASD	ASD	06/15/21 12:21	MS210610-2	.050075	.0527	.1086	mg/L	112	70	130	2	20	

Ouray Silver MinesACZ Project ID: **L66294**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66294-04	WG520922	Cyanide, WAD	SM4500-CN I,E-Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			SM4500-CN I,E-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).
	WG520619	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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

Ouray Silver Mines
Project ID:
Sample ID: GW-4 BLANK

ACZ Sample ID: **L66294-01**
Date Sampled: 06/03/21 8:15
Date Received: 06/04/21
Sample Matrix: Waste Water

Base Neutral Acid Extractables by GC/MS

Analysis Method: **M8270D/E GC/MS**
Extract Method: **M3520C**

Workgroup: WG521878

Analyst: jmm
Extract Date: 06/08/21 13:05
Analysis Date: 06/25/21 13:02

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
1,2,4-Trichlorobenzene	120-82-1	<1.9	U	0.93	*	ug/L	1.9	9.3
1,2-Dichlorobenzene	95-50-1	<1.9	U	0.93	*	ug/L	1.9	9.3
1,3-Dichlorobenzene	541-73-1	<1.9	U	0.93	*	ug/L	1.9	9.3
1,4-Dichlorobenzene	106-46-7	<1.9	U	0.93	*	ug/L	1.9	9.3
1,4-Dioxane	123-91-1	<1.9	U	0.93	*	ug/L	1.9	9.3
2,4,5-Trichlorophenol	95-95-4	<9	U	0.93	*	ug/L	9	47
2,4,6-Trichlorophenol	88-06-2	<1.9	U	0.93	*	ug/L	1.9	9.3
2,4-Dichlorophenol	120-83-2	<1.9	U	0.93	*	ug/L	1.9	9.3
2,4-Dimethylphenol	105-67-9	<3.7	U	0.93	*	ug/L	3.7	18.6
2,4-Dinitrophenol	51-28-5	<19	U	0.93	*	ug/L	19	47
2,4-Dinitrotoluene	121-14-2	<1.9	U	0.93	*	ug/L	1.9	9.3
2,6-Dinitrotoluene	606-20-8	<9	U	0.93	*	ug/L	9	47
2-Chloronaphthalene	91-58-7	<1.9	U	0.93	*	ug/L	1.9	9.3
2-Chlorophenol	95-57-8	<1.9	U	0.93	*	ug/L	1.9	9.3
2-Methylnaphthalene	91-57-6	<1.9	U	0.93	*	ug/L	1.9	9.3
2-Methylphenol	95-48-7	<1.9	U	0.93	*	ug/L	1.9	9.3
2-Nitroaniline	88-74-4	<9	U	0.93	*	ug/L	9	47
2-Nitrophenol	88-75-5	<3.7	U	0.93	*	ug/L	3.7	18.6
3- & 4-Methylphenol	1319-77-3	<3.7	U	0.93	*	ug/L	3.7	18.6
3,3-Dichlorobenzidine	91-94-1	<19	U	0.93	*	ug/L	19	47
3-Nitroaniline	99-09-2	<9	U	0.93	*	ug/L	9	47
4,6-Dinitro-2-methylphenol	534-52-1	<9	U	0.93	*	ug/L	9	47
4-Bromophenyl phenyl ether	101-55-3	<1.9	U	0.93	*	ug/L	1.9	9.3
4-Chloro-3-methylphenol	59-50-7	<1.9	U	0.93	*	ug/L	1.9	9.3
4-Chloroaniline	106-47-8	<1.9	U	0.93	*	ug/L	1.9	9.3
4-Chlorophenyl phenyl ether	7005-72-3	<1.9	U	0.93	*	ug/L	1.9	9.3
4-Nitroaniline	100-01-6	<9	U	0.93	*	ug/L	9	47
4-Nitrophenol	100-02-07	<9	U	0.93	*	ug/L	9	47
Acenaphthene	83-32-9	<1.9	U	0.93	*	ug/L	1.9	9.3
Acenaphthylene	208-96-8	<1.9	U	0.93	*	ug/L	1.9	9.3
Alpha-terpineol		<4.7	U	0.93	*	ug/L	4.7	9.3
Aniline	62-53-3	<9	U	0.93	*	ug/L	9	47
Anthracene	120-12-7	<1.9	U	0.93	*	ug/L	1.9	9.3
Azobenzene	103-33-3	<9	U	0.93	*	ug/L	9	47
Benzidine	92-87-5	<3.7	U	0.93	*	ug/L	3.7	18.6
Benzo(a)anthracene	56-55-3	<1.9	U	0.93	*	ug/L	1.9	9.3
Benzo(a)pyrene	50-32-8	<1.9	U	0.93	*	ug/L	1.9	9.3
Benzo(b)fluoranthene	205-99-2	<1.9	U	0.93	*	ug/L	1.9	9.3

Ouray Silver Mines

Project ID:

Sample ID: GW-4 BLANK

ACZ Sample ID: **L66294-01**

Date Sampled: 06/03/21 8:15

Date Received: 06/04/21

Sample Matrix: Waste Water

Benzo(g,h,i)perylene	191-24-2	<1.9	U	0.93	*	ug/L	1.9	9.3
Benzo(k)fluoranthene	207-08-9	<1.9	U	0.93	*	ug/L	1.9	9.3
Benzoic Acid	65-85-0	<19	U	0.93	*	ug/L	19	47
Benzyl alcohol	100-51-6	<1.9	U	0.93	*	ug/L	1.9	9.3
Bis(2-chloroethoxy)methane	111-91-1	<1.9	U	0.93	*	ug/L	1.9	9.3
Bis(2-chloroethyl) ether	111-44-4	<1.9	U	0.93	*	ug/L	1.9	9.3
Bis(2-chloroisopropyl) ether	108-60-1	<1.9	U	0.93	*	ug/L	1.9	9.3
Bis(2-ethylhexyl) phthalate	117-81-7	<3.7	U	0.93	*	ug/L	3.7	18.6
Butyl benzyl phthalate	85-68-7	<1.9	U	0.93	*	ug/L	1.9	9.3
Chrysene	218-01-9	<1.9	U	0.93	*	ug/L	1.9	9.3
Dibenzo(a,h)anthracene	53-70-3	<1.9	U	0.93	*	ug/L	1.9	9.3
Dibenzofuran	132-64-9	<1.9	U	0.93	*	ug/L	1.9	9.3
Diethylphthalate	84-66-2	<1.9	U	0.93	*	ug/L	1.9	9.3
Dimethyl phthalate	131-11-3	<1.9	U	0.93	*	ug/L	1.9	9.3
Di-n-butyl phthalate	84-74-2	<1.9	U	0.93	*	ug/L	1.9	9.3
Di-n-octyl phthalate	117-84-0	<1.9	U	0.93	*	ug/L	1.9	9.3
Fluoranthene	206-44-0	<1.9	U	0.93	*	ug/L	1.9	9.3
Fluorene	86-73-7	<1.9	U	0.93	*	ug/L	1.9	9.3
Hexachlorobenzene	118-74-1	<1.9	U	0.93	*	ug/L	1.9	9.3
Hexachlorobutadiene	87-68-3	<1.9	U	0.93	*	ug/L	1.9	9.3
Hexachlorocyclopentadiene	77-47-4	<3.7	U	0.93	*	ug/L	3.7	18.6
Hexachloroethane	67-72-1	<1.9	U	0.93	*	ug/L	1.9	9.3
Indeno(1,2,3-cd)pyrene	193-39-5	<1.9	U	0.93	*	ug/L	1.9	9.3
Isophorone	78-59-1	<1.9	U	0.93	*	ug/L	1.9	9.3
Naphthalene	91-20-3	<1.9	U	0.93	*	ug/L	1.9	9.3
Nitrobenzene	98-95-3	<1.9	U	0.93	*	ug/L	1.9	9.3
N-Nitrosodimethylamine	62-75-9	<9	U	0.93	*	ug/L	9	47
N-Nitrosodi-n-propylamine	621-64-7	<1.9	U	0.93	*	ug/L	1.9	9.3
N-Nitrosodiphenylamine	86-30-6	<1.9	U	0.93	*	ug/L	1.9	9.3
Pentachlorophenol	87-86-5	<9	U	0.93	*	ug/L	9	47
Phenanthrene	85-01-8	<1.9	U	0.93	*	ug/L	1.9	9.3
Phenol	108-95-2	<3.7	U	0.93	*	ug/L	3.7	18.6
Pyrene	129-00-0	<1.9	U	0.93	*	ug/L	1.9	9.3
Pyridine	110-86-1	<4.7	U	0.93	*	ug/L	4.7	9.3

Surrogate Recoveries	CAS	% Recovery	Dilution	XQ	Units	LCL	UCL
2,4,6-Tribromophenol	118-79-6	86	0.93	*	%	40	125
2-Fluorobiphenyl	321-60-8	71	0.93	*	%	50	110
2-Fluorophenol	367-12-4	83.8	0.93	*	%	54	100
Nitrobenzene-d5	4165-60-0	78.4	0.93	*	%	40	110
Phenol-d6	13127-88-3	93.2	0.93	*	%	47	113
Terphenyl-d14	1718-51-0	90.3	0.93	*	%	50	135

Ouray Silver Mines

Project ID:

Sample ID: GW-4

ACZ Sample ID: **L66294-02**

Date Sampled: 06/03/21 10:05

Date Received: 06/04/21

Sample Matrix: Waste Water

Base Neutral Acid Extractables by GC/MS

Analysis Method: **M8270D/E GC/MS**

Extract Method: **M3520C**

Workgroup: **WG521878**

Analyst: jmm

Extract Date: 06/08/21 13:05

Analysis Date: 06/25/21 14:08

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
1,2,4-Trichlorobenzene	120-82-1	<1.9	U	0.93	*	ug/L	1.9	9.3
1,2-Dichlorobenzene	95-50-1	<1.9	U	0.93	*	ug/L	1.9	9.3
1,3-Dichlorobenzene	541-73-1	<1.9	U	0.93	*	ug/L	1.9	9.3
1,4-Dichlorobenzene	106-46-7	<1.9	U	0.93	*	ug/L	1.9	9.3
1,4-Dioxane	123-91-1	<1.9	U	0.93	*	ug/L	1.9	9.3
2,4,5-Trichlorophenol	95-95-4	<9	U	0.93	*	ug/L	9	47
2,4,6-Trichlorophenol	88-06-2	<1.9	U	0.93	*	ug/L	1.9	9.3
2,4-Dichlorophenol	120-83-2	<1.9	U	0.93	*	ug/L	1.9	9.3
2,4-Dimethylphenol	105-67-9	<3.7	U	0.93	*	ug/L	3.7	18.6
2,4-Dinitrophenol	51-28-5	<19	U	0.93	*	ug/L	19	47
2,4-Dinitrotoluene	121-14-2	<1.9	U	0.93	*	ug/L	1.9	9.3
2,6-Dinitrotoluene	606-20-8	<9	U	0.93	*	ug/L	9	47
2-Chloronaphthalene	91-58-7	<1.9	U	0.93	*	ug/L	1.9	9.3
2-Chlorophenol	95-57-8	<1.9	U	0.93	*	ug/L	1.9	9.3
2-Methylnaphthalene	91-57-6	<1.9	U	0.93	*	ug/L	1.9	9.3
2-Methylphenol	95-48-7	<1.9	U	0.93	*	ug/L	1.9	9.3
2-Nitroaniline	88-74-4	<9	U	0.93	*	ug/L	9	47
2-Nitrophenol	88-75-5	<3.7	U	0.93	*	ug/L	3.7	18.6
3- & 4-Methylphenol	1319-77-3	<3.7	U	0.93	*	ug/L	3.7	18.6
3,3-Dichlorobenzidine	91-94-1	<19	U	0.93	*	ug/L	19	47
3-Nitroaniline	99-09-2	<9	U	0.93	*	ug/L	9	47
4,6-Dinitro-2-methylphenol	534-52-1	<9	U	0.93	*	ug/L	9	47
4-Bromophenyl phenyl ether	101-55-3	<1.9	U	0.93	*	ug/L	1.9	9.3
4-Chloro-3-methylphenol	59-50-7	<1.9	U	0.93	*	ug/L	1.9	9.3
4-Chloroaniline	106-47-8	<1.9	U	0.93	*	ug/L	1.9	9.3
4-Chlorophenyl phenyl ether	7005-72-3	<1.9	U	0.93	*	ug/L	1.9	9.3
4-Nitroaniline	100-01-6	<9	U	0.93	*	ug/L	9	47
4-Nitrophenol	100-02-07	<9	U	0.93	*	ug/L	9	47
Acenaphthene	83-32-9	<1.9	U	0.93	*	ug/L	1.9	9.3
Acenaphthylene	208-96-8	<1.9	U	0.93	*	ug/L	1.9	9.3
Alpha-terpineol		<4.7	U	0.93	*	ug/L	4.7	9.3
Aniline	62-53-3	<9	U	0.93	*	ug/L	9	47
Anthracene	120-12-7	<1.9	U	0.93	*	ug/L	1.9	9.3
Azobenzene	103-33-3	<9	U	0.93	*	ug/L	9	47
Benzidine	92-87-5	<3.7	U	0.93	*	ug/L	3.7	18.6
Benzo(a)anthracene	56-55-3	<1.9	U	0.93	*	ug/L	1.9	9.3
Benzo(a)pyrene	50-32-8	<1.9	U	0.93	*	ug/L	1.9	9.3
Benzo(b)fluoranthene	205-99-2	<1.9	U	0.93	*	ug/L	1.9	9.3

Ouray Silver Mines

Project ID:

Sample ID: GW-4

ACZ Sample ID: **L66294-02**

Date Sampled: 06/03/21 10:05

Date Received: 06/04/21

Sample Matrix: Waste Water

Benzo(g,h,i)perylene	191-24-2	<1.9	U	0.93	*	ug/L	1.9	9.3
Benzo(k)fluoranthene	207-08-9	<1.9	U	0.93	*	ug/L	1.9	9.3
Benzoic Acid	65-85-0	<19	U	0.93	*	ug/L	19	47
Benzyl alcohol	100-51-6	<1.9	U	0.93	*	ug/L	1.9	9.3
Bis(2-chloroethoxy)methane	111-91-1	<1.9	U	0.93	*	ug/L	1.9	9.3
Bis(2-chloroethyl) ether	111-44-4	<1.9	U	0.93	*	ug/L	1.9	9.3
Bis(2-chloroisopropyl) ether	108-60-1	<1.9	U	0.93	*	ug/L	1.9	9.3
Bis(2-ethylhexyl) phthalate	117-81-7	9.8	J	0.93	*	ug/L	3.7	18.6
Butyl benzyl phthalate	85-68-7	<1.9	U	0.93	*	ug/L	1.9	9.3
Chrysene	218-01-9	<1.9	U	0.93	*	ug/L	1.9	9.3
Dibenzo(a,h)anthracene	53-70-3	<1.9	U	0.93	*	ug/L	1.9	9.3
Dibenzofuran	132-64-9	<1.9	U	0.93	*	ug/L	1.9	9.3
Diethylphthalate	84-66-2	<1.9	U	0.93	*	ug/L	1.9	9.3
Dimethyl phthalate	131-11-3	<1.9	U	0.93	*	ug/L	1.9	9.3
Di-n-butyl phthalate	84-74-2	<1.9	U	0.93	*	ug/L	1.9	9.3
Di-n-octyl phthalate	117-84-0	<1.9	U	0.93	*	ug/L	1.9	9.3
Fluoranthene	206-44-0	<1.9	U	0.93	*	ug/L	1.9	9.3
Fluorene	86-73-7	<1.9	U	0.93	*	ug/L	1.9	9.3
Hexachlorobenzene	118-74-1	<1.9	U	0.93	*	ug/L	1.9	9.3
Hexachlorobutadiene	87-68-3	<1.9	U	0.93	*	ug/L	1.9	9.3
Hexachlorocyclopentadiene	77-47-4	<3.7	U	0.93	*	ug/L	3.7	18.6
Hexachloroethane	67-72-1	<1.9	U	0.93	*	ug/L	1.9	9.3
Indeno(1,2,3-cd)pyrene	193-39-5	<1.9	U	0.93	*	ug/L	1.9	9.3
Isophorone	78-59-1	<1.9	U	0.93	*	ug/L	1.9	9.3
Naphthalene	91-20-3	<1.9	U	0.93	*	ug/L	1.9	9.3
Nitrobenzene	98-95-3	<1.9	U	0.93	*	ug/L	1.9	9.3
N-Nitrosodimethylamine	62-75-9	<9	U	0.93	*	ug/L	9	47
N-Nitrosodi-n-propylamine	621-64-7	<1.9	U	0.93	*	ug/L	1.9	9.3
N-Nitrosodiphenylamine	86-30-6	<1.9	U	0.93	*	ug/L	1.9	9.3
Pentachlorophenol	87-86-5	<9	U	0.93	*	ug/L	9	47
Phenanthrene	85-01-8	<1.9	U	0.93	*	ug/L	1.9	9.3
Phenol	108-95-2	<3.7	U	0.93	*	ug/L	3.7	18.6
Pyrene	129-00-0	<1.9	U	0.93	*	ug/L	1.9	9.3
Pyridine	110-86-1	<4.7	U	0.93	*	ug/L	4.7	9.3

Surrogate Recoveries	CAS	% Recovery	Dilution	XQ	Units	LCL	UCL
2,4,6-Tribromophenol	118-79-6	88.2	0.93	*	%	40	125
2-Fluorobiphenyl	321-60-8	66.5	0.93	*	%	50	110
2-Fluorophenol	367-12-4	64.9	0.93	*	%	54	100
Nitrobenzene-d5	4165-60-0	73.9	0.93	*	%	40	110
Phenol-d6	13127-88-3	73.6	0.93	*	%	47	113
Terphenyl-d14	1718-51-0	82.2	0.93	*	%	50	135

Ouray Silver Mines

Project ID:

Sample ID: GW-4 DUPLICATE

ACZ Sample ID: **L66294-03**

Date Sampled: 06/03/21 10:15

Date Received: 06/04/21

Sample Matrix: Waste Water

Base Neutral Acid Extractables by GC/MS

Analysis Method: **M8270D/E GC/MS**

Extract Method: **M3520C**

Workgroup: **WG521878**

Analyst: jmm

Extract Date: 06/08/21 13:05

Analysis Date: 06/25/21 14:42

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
1,2,4-Trichlorobenzene	120-82-1	<1.9	U	0.94	*	ug/L	1.9	9.4
1,2-Dichlorobenzene	95-50-1	<1.9	U	0.94	*	ug/L	1.9	9.4
1,3-Dichlorobenzene	541-73-1	<1.9	U	0.94	*	ug/L	1.9	9.4
1,4-Dichlorobenzene	106-46-7	<1.9	U	0.94	*	ug/L	1.9	9.4
1,4-Dioxane	123-91-1	<1.9	U	0.94	*	ug/L	1.9	9.4
2,4,5-Trichlorophenol	95-95-4	<9	U	0.94	*	ug/L	9	47
2,4,6-Trichlorophenol	88-06-2	<1.9	U	0.94	*	ug/L	1.9	9.4
2,4-Dichlorophenol	120-83-2	<1.9	U	0.94	*	ug/L	1.9	9.4
2,4-Dimethylphenol	105-67-9	<3.8	U	0.94	*	ug/L	3.8	18.8
2,4-Dinitrophenol	51-28-5	<19	U	0.94	*	ug/L	19	47
2,4-Dinitrotoluene	121-14-2	<1.9	U	0.94	*	ug/L	1.9	9.4
2,6-Dinitrotoluene	606-20-8	<9	U	0.94	*	ug/L	9	47
2-Chloronaphthalene	91-58-7	<1.9	U	0.94	*	ug/L	1.9	9.4
2-Chlorophenol	95-57-8	<1.9	U	0.94	*	ug/L	1.9	9.4
2-Methylnaphthalene	91-57-6	<1.9	U	0.94	*	ug/L	1.9	9.4
2-Methylphenol	95-48-7	<1.9	U	0.94	*	ug/L	1.9	9.4
2-Nitroaniline	88-74-4	<9	U	0.94	*	ug/L	9	47
2-Nitrophenol	88-75-5	<3.8	U	0.94	*	ug/L	3.8	18.8
3- & 4-Methylphenol	1319-77-3	<3.8	U	0.94	*	ug/L	3.8	18.8
3,3-Dichlorobenzidine	91-94-1	<19	U	0.94	*	ug/L	19	47
3-Nitroaniline	99-09-2	<9	U	0.94	*	ug/L	9	47
4,6-Dinitro-2-methylphenol	534-52-1	<9	U	0.94	*	ug/L	9	47
4-Bromophenyl phenyl ether	101-55-3	<1.9	U	0.94	*	ug/L	1.9	9.4
4-Chloro-3-methylphenol	59-50-7	<1.9	U	0.94	*	ug/L	1.9	9.4
4-Chloroaniline	106-47-8	<1.9	U	0.94	*	ug/L	1.9	9.4
4-Chlorophenyl phenyl ether	7005-72-3	<1.9	U	0.94	*	ug/L	1.9	9.4
4-Nitroaniline	100-01-6	<9	U	0.94	*	ug/L	9	47
4-Nitrophenol	100-02-07	<9	U	0.94	*	ug/L	9	47
Acenaphthene	83-32-9	<1.9	U	0.94	*	ug/L	1.9	9.4
Acenaphthylene	208-96-8	<1.9	U	0.94	*	ug/L	1.9	9.4
Alpha-terpineol		<4.7	U	0.94	*	ug/L	4.7	9.4
Aniline	62-53-3	<9	U	0.94	*	ug/L	9	47
Anthracene	120-12-7	<1.9	U	0.94	*	ug/L	1.9	9.4
Azobenzene	103-33-3	<9	U	0.94	*	ug/L	9	47
Benzidine	92-87-5	<3.8	U	0.94	*	ug/L	3.8	18.8
Benzo(a)anthracene	56-55-3	<1.9	U	0.94	*	ug/L	1.9	9.4
Benzo(a)pyrene	50-32-8	<1.9	U	0.94	*	ug/L	1.9	9.4
Benzo(b)fluoranthene	205-99-2	<1.9	U	0.94	*	ug/L	1.9	9.4

Ouray Silver Mines

Project ID:

Sample ID: GW-4 DUPLICATE

ACZ Sample ID: **L66294-03**

Date Sampled: 06/03/21 10:15

Date Received: 06/04/21

Sample Matrix: Waste Water

Benzo(g,h,i)perylene	191-24-2	<1.9	U	0.94	*	ug/L	1.9	9.4
Benzo(k)fluoranthene	207-08-9	<1.9	U	0.94	*	ug/L	1.9	9.4
Benzoic Acid	65-85-0	<19	U	0.94	*	ug/L	19	47
Benzyl alcohol	100-51-6	<1.9	U	0.94	*	ug/L	1.9	9.4
Bis(2-chloroethoxy)methane	111-91-1	<1.9	U	0.94	*	ug/L	1.9	9.4
Bis(2-chloroethyl) ether	111-44-4	<1.9	U	0.94	*	ug/L	1.9	9.4
Bis(2-chloroisopropyl) ether	108-60-1	<1.9	U	0.94	*	ug/L	1.9	9.4
Bis(2-ethylhexyl) phthalate	117-81-7	<3.8	U	0.94	*	ug/L	3.8	18.8
Butyl benzyl phthalate	85-68-7	<1.9	U	0.94	*	ug/L	1.9	9.4
Chrysene	218-01-9	<1.9	U	0.94	*	ug/L	1.9	9.4
Dibenzo(a,h)anthracene	53-70-3	<1.9	U	0.94	*	ug/L	1.9	9.4
Dibenzofuran	132-64-9	<1.9	U	0.94	*	ug/L	1.9	9.4
Diethylphthalate	84-66-2	<1.9	U	0.94	*	ug/L	1.9	9.4
Dimethyl phthalate	131-11-3	<1.9	U	0.94	*	ug/L	1.9	9.4
Di-n-butyl phthalate	84-74-2	<1.9	U	0.94	*	ug/L	1.9	9.4
Di-n-octyl phthalate	117-84-0	<1.9	U	0.94	*	ug/L	1.9	9.4
Fluoranthene	206-44-0	<1.9	U	0.94	*	ug/L	1.9	9.4
Fluorene	86-73-7	<1.9	U	0.94	*	ug/L	1.9	9.4
Hexachlorobenzene	118-74-1	<1.9	U	0.94	*	ug/L	1.9	9.4
Hexachlorobutadiene	87-68-3	<1.9	U	0.94	*	ug/L	1.9	9.4
Hexachlorocyclopentadiene	77-47-4	<3.8	U	0.94	*	ug/L	3.8	18.8
Hexachloroethane	67-72-1	<1.9	U	0.94	*	ug/L	1.9	9.4
Indeno(1,2,3-cd)pyrene	193-39-5	<1.9	U	0.94	*	ug/L	1.9	9.4
Isophorone	78-59-1	<1.9	U	0.94	*	ug/L	1.9	9.4
Naphthalene	91-20-3	<1.9	U	0.94	*	ug/L	1.9	9.4
Nitrobenzene	98-95-3	<1.9	U	0.94	*	ug/L	1.9	9.4
N-Nitrosodimethylamine	62-75-9	<9	U	0.94	*	ug/L	9	47
N-Nitrosodi-n-propylamine	621-64-7	<1.9	U	0.94	*	ug/L	1.9	9.4
N-Nitrosodiphenylamine	86-30-6	<1.9	U	0.94	*	ug/L	1.9	9.4
Pentachlorophenol	87-86-5	<9	U	0.94	*	ug/L	9	47
Phenanthrene	85-01-8	<1.9	U	0.94	*	ug/L	1.9	9.4
Phenol	108-95-2	<3.8	U	0.94	*	ug/L	3.8	18.8
Pyrene	129-00-0	<1.9	U	0.94	*	ug/L	1.9	9.4
Pyridine	110-86-1	<4.7	U	0.94	*	ug/L	4.7	9.4

Surrogate Recoveries	CAS	% Recovery	Dilution	XQ	Units	LCL	UCL
2,4,6-Tribromophenol	118-79-6	66.3	0.94	*	%	40	125
2-Fluorobiphenyl	321-60-8	56.6	0.94	*	%	50	110
2-Fluorophenol	367-12-4	51.3	0.94	*	%	54	100
Nitrobenzene-d5	4165-60-0	62.2	0.94	*	%	40	110
Phenol-d6	13127-88-3	58.4	0.94	*	%	47	113
Terphenyl-d14	1718-51-0	64.3	0.94	*	%	50	135

Ouray Silver Mines

Project ID:

Sample ID: OF002A

ACZ Sample ID: **L66294-04**

Date Sampled: 06/03/21 8:30

Date Received: 06/04/21

Sample Matrix: Waste Water

Oil & Grease, Total Recoverable

Analysis Method: **1664A/B - Gravimetric**

Extract Method:

Workgroup: **WG520864**

Analyst: TTG

Extract Date:

Analysis Date: 06/11/21 12:59

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Oil and Grease		<1.9	U	0.935	*	mg/L	1.9	9.4

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>Lower</i>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<i>LCL</i>	Lower Control Limit
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #4) Allows for instrument and annual fluctuations.
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>Upper</i>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<i>UCL</i>	Upper Control Limit
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>SURR</i>	Surrogate	<i>LFB</i>	Laboratory Fortified Blank
<i>INTS</i>	Internal Standard	<i>LFM</i>	Laboratory Fortified Matrix
<i>AS</i>	Analytical Spike (Post Digestion)	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>ASD</i>	Analytical Spike (Post Digestion) Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>DUP</i>	Sample Duplicate	<i>MS/MSD</i>	Matrix Spike/Matrix Spike Duplicate
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBS</i>	Prep Blank - Soil
<i>LCSW</i>	Laboratory Control Sample - Water	<i>PBW</i>	Prep Blank - Water

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.

ACZ Qualifiers (Qual)

O	Analyte concentration is estimated due to result exceeding calibration range.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
J	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
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 600/4-90/020. Methods for the Determination of Organic Compounds in Drinking Water (I), July 1990.
- (3) EPA 600/R-92/129. Methods for the Determination of Organic Compounds in Drinking Water (II), July 1990.
- (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) Excluding Oil & Grease, solid & biological matrices for organic analyses are reported on a wet weight basis.
- (3) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
- (4) 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>

Ouray Silver Mines

ACZ Project ID: **L66294**

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.

Base Neutral Acid Extractables by GC/MS

M8270D/E GC/MS

WG521878

MS	Sample ID: L66294-01MS			PCN/SCN: OPMBNA210414-				Analyzed: 06/25/21 13:35		
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
1,2,4-TRICHLOROBENZENE	50015	U	33.7	ug/L	72.0	29	116			
1,2-DICHLOROBENZENE	50000	U	34	ug/L	73.0	32	111			
1,3-DICHLOROBENZENE	50015	U	30.4	ug/L	65.0	28	110			
1,4-DICHLOROBENZENE	50005	U	31.9	ug/L	68.0	29	112			
1,4-DIOXANE	50050	U	34.8	ug/L	74.0	55	84			
2,4,5-TRICHLOROPHENOL	50005	U	46	ug/L	98.0	53	123			
2,4,6-TRICHLOROPHENOL	50015	U	46.5	ug/L	99.0	43	140			
2,4-DICHLOROPHENOL	50005	U	48.1	ug/L	103.0	47	121			
2,4-DIMETHYLPHENOL	50005	U	42.8	ug/L	91.0	31	124			
2,4-DINITROPHENOL	50020	U	49	ug/L	105.0	23	143			
2,4-DINITROTOLUENE	50005	U	45.7	ug/L	98.0	57	128			
2,6-DINITROTOLUENE	50010	U	46	ug/L	98.0	57	124			
2-CHLORONAPHTHALENE	50015	U	39.6	ug/L	85.0	40	116			
2-CHLOROPHENOL	50005	U	43.8	ug/L	94.0	38	117			
2-METHYLNAPHTHALENE	50005	U	39.7	ug/L	85.0	40	121			
2-METHYLPHENOL	50010	U	47.1	ug/L	101.0	40	110			
2-NITROANILINE	50010	U	42	ug/L	90.0	55	127			
2-NITROPHENOL	50005	U	41.3	ug/L	88.0	47	123			
3- & 4-METHYLPHENOL	50025	U	48.9	ug/L	104.0	29	110			
3,3-DICHLOROBENZIDINE	50120	U	31	ug/L	66.0	27	129			
3-NITROANILINE	50010	U	47	ug/L	100.0	41	128			
4,6-DINITRO-2-METHYLPHENOL	50010	U	48	ug/L	103.0	44	137			
4-BROMOPHENYL PHENYL ETHER	50005	U	43.3	ug/L	92.0	55	124			
4-CHLORO-3-METHYLPHENOL	50020	U	51.1	ug/L	109.0	52	119			
4-CHLOROANILINE	50005	U	42.4	ug/L	91.0	33	117			
4-CHLOROPHENYL PHENYL ETHER	50005	U	43	ug/L	92.0	53	121			
4-NITROANILINE	50005	U	44	ug/L	94.0	35	120			
4-NITROPHENOL	50025	U	52	ug/L	111.0	38	142			
ACENAPHTHENE	50000	U	40.9	ug/L	87.0	47	122			
ACENAPHTHYLENE	50010	U	40.1	ug/L	86.0	41	130			
ALPHA-TERPINEOL	50040	U	54.9	ug/L	117.0	38	113			M1
ANILINE	50005	U	43	ug/L	92.0	51	105			
ANTHRACENE	50010	U	44.9	ug/L	96.0	57	123			
AZOBENZENE	50005	U	45	ug/L	96.0	61	116			
BENZIDINE	50110	U	21.8	ug/L	46.0	25	111			
BENZO(A)ANTHRACENE	50005	U	46.1	ug/L	98.0	58	125			
BENZO(A)PYRENE	50005	U	41.1	ug/L	88.0	54	128			
BENZO(B)FLUORANTHENE	50015	U	44.4	ug/L	95.0	53	131			
BENZO(G,H,I)PERYLENE	50005	U	43.1	ug/L	92.0	50	134			
BENZO(K)FLUORANTHENE	50005	U	44.2	ug/L	94.0	57	129			
BENZOIC ACID	80000	U	77	ug/L	103.0	0	125			
BENZYL ALCOHOL	50005	U	48.4	ug/L	103.0	31	112			
BIS(2-CHLOROETHOXY)METHANE	50005	U	43	ug/L	92.0	48	120			
BIS(2-CHLOROETHYL) ETHER	50020	U	42.2	ug/L	90.0	43	118			

Ouray Silver Mines

ACZ Project ID: **L66294**

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.

BIS(2-CHLOROISOPROPYL) ETHER	50005	U	42.3	ug/L	90.0	37	130
BIS(2-ETHYLHEXYL) PHTHALATE	50020	U	48	ug/L	102.0	55	135
BUTYL BENZYL PHTHALATE	50005	U	49.3	ug/L	105.0	60	122
CHRYSENE	50005	U	44.2	ug/L	94.0	59	127
DIBENZO(A,H)ANTHRACENE	50010	U	43.4	ug/L	93.0	51	134
DIBENZOFURAN	50005	U	42.6	ug/L	91.0	53	118
DIETHYLPHTHALATE	50010	U	46.7	ug/L	100.0	56	125
DIMETHYL PHTHALATE	50005	U	45.6	ug/L	97.0	62	132
DI-N-BUTYL PHTHALATE	50015	U	49.4	ug/L	105.0	51	140
DI-N-OCTYL PHTHALATE	50000	U	47.6	ug/L	102.0	67	124
FLUORANTHENE	50005	U	47.2	ug/L	101.0	57	128
FLUORENE	50005	U	43.9	ug/L	94.0	52	124
HEXACHLOROBENZENE	50010	U	44.5	ug/L	95.0	53	125
HEXACHLOROBUTADIENE	50000	U	25.2	ug/L	54.0	22	124
HEXACHLOROCYCLOPENTADIENE	50005	U	10.1	ug/L	22.0	8	65
HEXACHLOROETHANE	50020	U	23.9	ug/L	51.0	21	115
INDENO(1,2,3-CD)PYRENE	50015	U	42.6	ug/L	91.0	52	134
ISOPHORONE	50015	U	43.2	ug/L	92.0	42	124
NAPHTHALENE	50020	U	38.2	ug/L	82.0	40	121
NITROBENZENE	50005	U	45.7	ug/L	98.0	45	121
N-NITROSODIMETHYLAMINE	50010	U	39	ug/L	83.0	33	92
N-NITROSODI-N-PROPYLAMINE	50010	U	44.1	ug/L	94.0	49	119
N-NITROSODIPHENYLAMINE	50010	U	41.7	ug/L	89.0	51	123
PENTACHLOROPHENOL	50020	U	49	ug/L	105.0	35	138
PHENANTHRENE	50005	U	44.9	ug/L	96.0	59	120
PHENOL	50005	U	48.5	ug/L	104.0	0	115
PYRENE	50005	U	46.4	ug/L	99.0	57	126
PYRIDINE	50020	U	32.1	ug/L	69.0	44	86
2,4,6-TRIBROMOPHENOL (surr)				%	92.7	50	125
2-FLUOROBIPHENYL (surr)				%	76.1	44	119
2-FLUOROPHENOL (surr)				%	85.6	54	100
NITROBENZENE-D5 (surr)				%	86.9	44	120
PHENOL-D6 (surr)				%	94.5	47	113
TERPHENYL-D14 (surr)				%	97.7	50	134

DUP	Sample ID: L66294-03DUP						Analyzed:			06/25/21 15:15	
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual	
1,2,4-TRICHLOROBENZENE		U	U	ug/L				0	20	RA	
1,2-DICHLOROBENZENE		U	U	ug/L				0	20	RA	
1,3-DICHLOROBENZENE		U	U	ug/L				0	20	RA	
1,4-DICHLOROBENZENE		U	U	ug/L				0	20	RA	
1,4-DIOXANE		U	U	ug/L				0	20	RA	
2,4,5-TRICHLOROPHENOL		U	U	ug/L				0	20	RA	
2,4,6-TRICHLOROPHENOL		U	U	ug/L				0	20	RA	
2,4-DICHLOROPHENOL		U	U	ug/L				0	20	RA	
2,4-DIMETHYLPHENOL		U	U	ug/L				0	20	RA	
2,4-DINITROPHENOL		U	U	ug/L				0	20	RA	
2,4-DINITROTOLUENE		U	U	ug/L				0	20	RA	
2,6-DINITROTOLUENE		U	U	ug/L				0	20	RA	

Ouray Silver Mines

ACZ Project ID: **L66294**

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.

2-CHLORONAPHTHALENE	U	U	ug/L	0	20	RA
2-CHLOROPHENOL	U	U	ug/L	0	20	RA
2-METHYLNAPHTHALENE	U	U	ug/L	0	20	RA
2-METHYLPHENOL	U	U	ug/L	0	20	RA
2-NITROANILINE	U	U	ug/L	0	20	RA
2-NITROPHENOL	U	U	ug/L	0	20	RA
3- & 4-METHYLPHENOL	U	U	ug/L	0	20	RA
3,3-DICHLOROBENZIDINE	U	U	ug/L	0	20	RA
3-NITROANILINE	U	U	ug/L	0	20	RA
4,6-DINITRO-2-METHYLPHENOL	U	U	ug/L	0	20	RA
4-BROMOPHENYL PHENYL ETHER	U	U	ug/L	0	20	RA
4-CHLORO-3-METHYLPHENOL	U	U	ug/L	0	20	RA
4-CHLOROANILINE	U	U	ug/L	0	20	RA
4-CHLOROPHENYL PHENYL ETHER	U	U	ug/L	0	20	RA
4-NITROANILINE	U	U	ug/L	0	20	RA
4-NITROPHENOL	U	U	ug/L	0	20	RA
ACENAPHTHENE	U	U	ug/L	0	20	RA
ACENAPHTHYLENE	U	U	ug/L	0	20	RA
ALPHA-TERPINEOL	U	U	ug/L	0	20	RA
ANILINE	U	U	ug/L	0	20	RA
ANTHRACENE	U	U	ug/L	0	20	RA
AZOBENZENE	U	U	ug/L	0	20	RA
BENZIDINE	U	U	ug/L	0	20	RA
BENZO(A)ANTHRACENE	U	U	ug/L	0	20	RA
BENZO(A)PYRENE	U	U	ug/L	0	20	RA
BENZO(B)FLUORANTHENE	U	U	ug/L	0	20	RA
BENZO(G,H,I)PERYLENE	U	U	ug/L	0	20	RA
BENZO(K)FLUORANTHENE	U	U	ug/L	0	20	RA
BENZOIC ACID	U	U	ug/L	0	20	RA
BENZYL ALCOHOL	U	U	ug/L	0	20	RA
BIS(2-CHLOROETHOXY)METHANE	U	U	ug/L	0	20	RA
BIS(2-CHLOROETHYL) ETHER	U	U	ug/L	0	20	RA
BIS(2-CHLOROISOPROPYL) ETHER	U	U	ug/L	0	20	RA
BIS(2-ETHYLHEXYL) PHTHALATE	U	4.7	ug/L	200	20	RA
BUTYL BENZYL PHTHALATE	U	U	ug/L	0	20	RA
CHRYSENE	U	U	ug/L	0	20	RA
DIBENZO(A,H)ANTHRACENE	U	U	ug/L	0	20	RA
DIBENZOFURAN	U	U	ug/L	0	20	RA
DIETHYLPHTHALATE	U	U	ug/L	0	20	RA
DIMETHYL PHTHALATE	U	U	ug/L	0	20	RA
DI-N-BUTYL PHTHALATE	U	U	ug/L	0	20	RA
DI-N-OCTYL PHTHALATE	U	U	ug/L	0	20	RA
FLUORANTHENE	U	U	ug/L	0	20	RA
FLUORENE	U	U	ug/L	0	20	RA
HEXACHLOROBENZENE	U	U	ug/L	0	20	RA
HEXACHLOROBUTADIENE	U	U	ug/L	0	20	RA
HEXACHLOROCYCLOPENTADIENE	U	U	ug/L	0	20	RA
HEXACHLOROETHANE	U	U	ug/L	0	20	RA
INDENO(1,2,3-CD)PYRENE	U	U	ug/L	0	20	RA

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ISOPHORONE	U	U	ug/L		0	20	RA
NAPHTHALENE	U	U	ug/L		0	20	RA
NITROBENZENE	U	U	ug/L		0	20	RA
N-NITROSODIMETHYLAMINE	U	U	ug/L		0	20	RA
N-NITROSODI-N-PROPYLAMINE	U	U	ug/L		0	20	RA
N-NITROSODIPHENYLAMINE	U	U	ug/L		0	20	RA
PENTACHLOROPHENOL	U	U	ug/L		0	20	RA
PHENANTHRENE	U	U	ug/L		0	20	RA
PHENOL	U	U	ug/L		0	20	RA
PYRENE	U	U	ug/L		0	20	RA
PYRIDINE	U	U	ug/L		0	20	RA
2,4,6-TRIBROMOPHENOL (surr)			%	92.1	50	125	
2-FLUOROBIPHENYL (surr)			%	73.9	44	119	
2-FLUOROPHENOL (surr)			%	60.1	54	100	
NITROBENZENE-D5 (surr)			%	77.8	44	120	
PHENOL-D6 (surr)			%	70.4	47	113	
TERPHENYL-D14 (surr)			%	99.7	50	134	

LCSW	Sample ID: WG520565LCSW		PCN/SCN: OPMBNA210414-				Analyzed: 06/25/21 11:56			
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
1,2,4-TRICHLOROBENZENE	50015		25	ug/L	50.0	29	116			
1,2-DICHLOROBENZENE	50000		22.5	ug/L	45.0	32	111			
1,3-DICHLOROBENZENE	50015		20.6	ug/L	41.0	28	110			
1,4-DICHLOROBENZENE	50005		21.7	ug/L	43.0	29	112			
1,4-DIOXANE	50050		29.8	ug/L	60.0	55	84			
2,4,5-TRICHLOROPHENOL	50005		39	ug/L	78.0	53	123			
2,4,6-TRICHLOROPHENOL	50015		38.6	ug/L	77.0	43	140			
2,4-DICHLOROPHENOL	50005		37.8	ug/L	76.0	47	121			
2,4-DIMETHYLPHENOL	50005		33.5	ug/L	67.0	31	124			
2,4-DINITROPHENOL	50020		44	ug/L	88.0	23	143			
2,4-DINITROTOLUENE	50005		44.6	ug/L	89.0	57	128			
2,6-DINITROTOLUENE	50010		43	ug/L	86.0	57	124			
2-CHLORONAPHTHALENE	50015		33.8	ug/L	68.0	40	116			
2-CHLOROPHENOL	50005		33.7	ug/L	67.0	38	117			
2-METHYLNAPHTHALENE	50005		32.6	ug/L	65.0	40	121			
2-METHYLPHENOL	50010		35.2	ug/L	70.0	40	110			
2-NITROANILINE	50010		42	ug/L	84.0	55	127			
2-NITROPHENOL	50005		34.7	ug/L	69.0	47	123			
3- & 4-METHYLPHENOL	50025		37	ug/L	74.0	29	110			
3,3-DICHLOROBENZIDINE	50120		24	ug/L	48.0	27	129			
3-NITROANILINE	50010		44	ug/L	88.0	41	128			
4,6-DINITRO-2-METHYLPHENOL	50010		46	ug/L	92.0	44	137			
4-BROMOPHENYL PHENYL ETHER	50005		41.1	ug/L	82.0	55	124			
4-CHLORO-3-METHYLPHENOL	50020		43.9	ug/L	88.0	52	119			
4-CHLOROANILINE	50005		35.8	ug/L	72.0	33	117			
4-CHLOROPHENYL PHENYL ETHER	50005		40.7	ug/L	81.0	53	121			
4-NITROANILINE	50005		47	ug/L	94.0	35	120			
4-NITROPHENOL	50025		50	ug/L	100.0	38	142			
ACENAPHTHENE	50000		37.2	ug/L	74.0	47	122			

Ouray Silver Mines

ACZ Project ID: **L66294**

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.

ACENAPHTHYLENE	50010	36	ug/L	72.0	41	130
ALPHA-TERPINEOL	50040	46.1	ug/L	92.0	38	113
ANILINE	50005	33	ug/L	66.0	51	105
ANTHRACENE	50010	45	ug/L	90.0	57	123
AZOBENZENE	50005	42	ug/L	84.0	61	116
BENZIDINE	50110	33.7	ug/L	67.0	25	111
BENZO(A)ANTHRACENE	50005	46.9	ug/L	94.0	58	125
BENZO(A)PYRENE	50005	45.8	ug/L	92.0	54	128
BENZO(B)FLUORANTHENE	50015	48	ug/L	96.0	53	131
BENZO(G,H,I)PERYLENE	50005	46	ug/L	92.0	50	134
BENZO(K)FLUORANTHENE	50005	46.8	ug/L	94.0	57	129
BENZOIC ACID	80000	52	ug/L	65.0	0	125
BENZYL ALCOHOL	50005	37	ug/L	74.0	31	112
BIS(2-CHLOROETHOXY)METHANE	50005	36.2	ug/L	72.0	48	120
BIS(2-CHLOROETHYL) ETHER	50020	33	ug/L	66.0	43	118
BIS(2-CHLOROISOPROPYL) ETHER	50005	33.9	ug/L	68.0	37	130
BIS(2-ETHYLHEXYL) PHTHALATE	50020	48.8	ug/L	98.0	55	135
BUTYL BENZYL PHTHALATE	50005	48.8	ug/L	98.0	60	122
CHRYSENE	50005	45.2	ug/L	90.0	59	127
DIBENZO(A,H)ANTHRACENE	50010	46.6	ug/L	93.0	51	134
DIBENZOFURAN	50005	39.9	ug/L	80.0	53	118
DIETHYLPHTHALATE	50010	45.1	ug/L	90.0	56	125
DIMETHYL PHTHALATE	50005	43	ug/L	86.0	62	132
DI-N-BUTYL PHTHALATE	50015	48.7	ug/L	97.0	51	140
DI-N-OCTYL PHTHALATE	50000	48.3	ug/L	97.0	67	124
FLUORANTHENE	50005	47.1	ug/L	94.0	57	128
FLUORENE	50005	41.2	ug/L	82.0	52	124
HEXACHLOROBENZENE	50010	43.6	ug/L	87.0	53	125
HEXACHLOROBUTADIENE	50000	19.5	ug/L	39.0	22	124
HEXACHLOROCYCLOPENTADIENE	50005	9.6	ug/L	19.0	8	65
HEXACHLOROETHANE	50020	17.4	ug/L	35.0	21	115
INDENO(1,2,3-CD)PYRENE	50015	45.8	ug/L	92.0	52	134
ISOPHORONE	50015	37.3	ug/L	75.0	42	124
NAPHTHALENE	50020	29.8	ug/L	60.0	40	121
NITROBENZENE	50005	35.4	ug/L	71.0	45	121
N-NITROSODIMETHYLAMINE	50010	34	ug/L	68.0	33	92
N-NITROSODI-N-PROPYLAMINE	50010	37.3	ug/L	75.0	49	119
N-NITROSODIPHENYLAMINE	50010	42.1	ug/L	84.0	51	123
PENTACHLOROPHENOL	50020	45	ug/L	90.0	35	138
PHENANTHRENE	50005	44.2	ug/L	88.0	59	120
PHENOL	50005	35.1	ug/L	70.0	0	115
PYRENE	50005	45.9	ug/L	92.0	57	126
PYRIDINE	50020	30.7	ug/L	61.0	44	86
2,4,6-TRIBROMOPHENOL (surr)			%	84.7	50	125
2-FLUOROBIPHENYL (surr)			%	65.6	44	119
2-FLUOROPHENOL (surr)			%	59.0	54	100
NITROBENZENE-D5 (surr)			%	67.7	44	120
PHENOL-D6 (surr)			%	67.6	47	113
TERPHENYL-D14 (surr)			%	94.7	50	134

Ouray Silver Mines

ACZ Project ID: **L66294**

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.

LCSWD	Sample ID: WG520565LCSWD		PCN/SCN: OPMBNA210414-				Analyzed: 06/25/21 12:29			
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
1,2,4-TRICHLOROBENZENE	50015		27.5	ug/L	55.0	29	116	10	20	
1,2-DICHLOROBENZENE	50000		30	ug/L	60.0	32	111	29	20	R1
1,3-DICHLOROBENZENE	50015		26.7	ug/L	53.0	28	110	26	20	R1
1,4-DICHLOROBENZENE	50005		27.1	ug/L	54.0	29	112	22	20	R1
1,4-DIOXANE	50050		36.7	ug/L	73.0	55	84	21	20	R1
2,4,5-TRICHLOROPHENOL	50005		42	ug/L	84.0	53	123	7	20	
2,4,6-TRICHLOROPHENOL	50015		41.1	ug/L	82.0	43	140	6	20	
2,4-DICHLOROPHENOL	50005		41.8	ug/L	84.0	47	121	10	20	
2,4-DIMETHYLPHENOL	50005		34.2	ug/L	68.0	31	124	2	20	
2,4-DINITROPHENOL	50020		48	ug/L	96.0	23	143	9	20	
2,4-DINITROTOLUENE	50005		50.1	ug/L	100.0	57	128	12	20	
2,6-DINITROTOLUENE	50010		48	ug/L	96.0	57	124	11	20	
2-CHLORONAPHTHALENE	50015		35.9	ug/L	72.0	40	116	6	20	
2-CHLOROPHENOL	50005		40.7	ug/L	81.0	38	117	19	20	
2-METHYLNAPHTHALENE	50005		34.6	ug/L	69.0	40	121	6	20	
2-METHYLPHENOL	50010		41.2	ug/L	82.0	40	110	16	20	
2-NITROANILINE	50010		44	ug/L	88.0	55	127	5	20	
2-NITROPHENOL	50005		37.2	ug/L	74.0	47	123	7	20	
3- & 4-METHYLPHENOL	50025		41.2	ug/L	82.0	29	110	11	20	
3,3-DICHLOROBENZIDINE	50120		31	ug/L	62.0	27	129	25	34	
3-NITROANILINE	50010		46	ug/L	92.0	41	128	4	20	
4,6-DINITRO-2-METHYLPHENOL	50010		50	ug/L	100.0	44	137	8	20	
4-BROMOPHENYL PHENYL ETHER	50005		45.6	ug/L	91.0	55	124	10	20	
4-CHLORO-3-METHYLPHENOL	50020		45.4	ug/L	91.0	52	119	3	20	
4-CHLOROANILINE	50005		37.3	ug/L	75.0	33	117	4	20	
4-CHLOROPHENYL PHENYL ETHER	50005		43.2	ug/L	86.0	53	121	6	20	
4-NITROANILINE	50005		53	ug/L	106.0	35	120	12	20	
4-NITROPHENOL	50025		54	ug/L	108.0	38	142	8	20	
ACENAPHTHENE	50000		39.4	ug/L	79.0	47	122	6	20	
ACENAPHTHYLENE	50010		38.4	ug/L	77.0	41	130	6	20	
ALPHA-TERPINEOL	50040		48.7	ug/L	97.0	38	113	5	20	
ANILINE	50005		38	ug/L	76.0	51	105	14	20	
ANTHRACENE	50010		48.3	ug/L	97.0	57	123	7	20	
AZOBENZENE	50005		45	ug/L	90.0	61	116	7	20	
BENZIDINE	50110		38.3	ug/L	76.0	25	111	13	34	
BENZO(A)ANTHRACENE	50005		52.5	ug/L	105.0	58	125	11	20	
BENZO(A)PYRENE	50005		48.1	ug/L	96.0	54	128	5	20	
BENZO(B)FLUORANTHENE	50015		51.3	ug/L	103.0	53	131	7	20	
BENZO(G,H,I)PERYLENE	50005		48.8	ug/L	98.0	50	134	6	20	
BENZO(K)FLUORANTHENE	50005		49	ug/L	98.0	57	129	5	20	
BENZOIC ACID	80000		54	ug/L	68.0	0	125	4	20	
BENZYL ALCOHOL	50005		40.8	ug/L	82.0	31	112	10	20	
BIS(2-CHLOROETHOXY)METHANE	50005		38.7	ug/L	77.0	48	120	7	20	
BIS(2-CHLOROETHYL) ETHER	50020		39.2	ug/L	78.0	43	118	17	20	
BIS(2-CHLOROISOPROPYL) ETHER	50005		38.5	ug/L	77.0	37	130	13	20	
BIS(2-ETHYLHEXYL) PHTHALATE	50020		54.1	ug/L	108.0	55	135	10	20	

Ouray Silver Mines

ACZ Project ID: **L66294**

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.

BUTYL BENZYL PHTHALATE	50005	53.3	ug/L	107.0	60	122	9	20	
CHRYSENE	50005	50.2	ug/L	100.0	59	127	10	20	
DIBENZO(A,H)ANTHRACENE	50010	49.1	ug/L	98.0	51	134	5	20	
DIBENZOFURAN	50005	40.9	ug/L	82.0	53	118	2	20	
DIETHYLPHTHALATE	50010	48	ug/L	96.0	56	125	6	20	
DIMETHYL PHTHALATE	50005	46	ug/L	92.0	62	132	7	20	
DI-N-BUTYL PHTHALATE	50015	53.8	ug/L	108.0	51	140	10	20	
DI-N-OCTYL PHTHALATE	50000	53.6	ug/L	107.0	67	124	10	20	
FLUORANTHENE	50005	52.5	ug/L	105.0	57	128	11	20	
FLUORENE	50005	43.5	ug/L	87.0	52	124	5	20	
HEXACHLOROBENZENE	50010	46.8	ug/L	94.0	53	125	7	20	
HEXACHLOROBUTADIENE	50000	22.4	ug/L	45.0	22	124	14	20	
HEXACHLOROCYCLOPENTADIENE	50005	10.4	ug/L	21.0	8	65	8	39	
HEXACHLOROETHANE	50020	22.2	ug/L	44.0	21	115	24	20	R1
INDENO(1,2,3-CD)PYRENE	50015	49	ug/L	98.0	52	134	7	20	
ISOPHORONE	50015	39.1	ug/L	78.0	42	124	5	20	
NAPHTHALENE	50020	33.2	ug/L	66.0	40	121	11	20	
NITROBENZENE	50005	40.2	ug/L	80.0	45	121	13	20	
N-NITROSODIMETHYLAMINE	50010	41	ug/L	82.0	33	92	19	20	
N-NITROSODI-N-PROPYLAMINE	50010	40.9	ug/L	82.0	49	119	9	20	
N-NITROSODIPHENYLAMINE	50010	44.8	ug/L	90.0	51	123	6	20	
PENTACHLOROPHENOL	50020	51	ug/L	102.0	35	138	13	20	
PHENANTHRENE	50005	48.1	ug/L	96.0	59	120	8	20	
PHENOL	50005	41.8	ug/L	84.0	0	115	17	20	
PYRENE	50005	50.5	ug/L	101.0	57	126	10	20	
PYRIDINE	50020	36.1	ug/L	72.0	44	86	16	20	
2,4,6-TRIBROMOPHENOL (surr)			%	87.3	50	125			
2-FLUOROBIPHENYL (surr)			%	66.7	44	119			
2-FLUOROPHENOL (surr)			%	74.1	54	100			
NITROBENZENE-D5 (surr)			%	76.5	44	120			
PHENOL-D6 (surr)			%	80.2	47	113			
TERPHENYL-D14 (surr)			%	103.9	50	134			

PBW	Sample ID: WG520565PBW						Analyzed:		06/25/21 11:23	
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
1,2,4-TRICHLOROBENZENE			U	ug/L		-10	10			
1,2-DICHLOROBENZENE			U	ug/L		-10	10			
1,3-DICHLOROBENZENE			U	ug/L		-10	10			
1,4-DICHLOROBENZENE			U	ug/L		-10	10			
1,4-DIOXANE			U	ug/L		-10	10			
2,4,5-TRICHLOROPHENOL			U	ug/L		-50	50			
2,4,6-TRICHLOROPHENOL			U	ug/L		-10	10			
2,4-DICHLOROPHENOL			U	ug/L		-10	10			
2,4-DIMETHYLPHENOL			U	ug/L		-20	20			
2,4-DINITROPHENOL			U	ug/L		-50	50			
2,4-DINITROTOLUENE			U	ug/L		-10	10			
2,6-DINITROTOLUENE			U	ug/L		-50	50			
2-CHLORONAPHTHALENE			U	ug/L		-10	10			
2-CHLOROPHENOL			U	ug/L		-10	10			

Ouray Silver Mines

ACZ Project ID: **L66294**

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.

2-METHYLNAPHTHALENE	U	ug/L	-10	10
2-METHYLPHENOL	U	ug/L	-10	10
2-NITROANILINE	U	ug/L	-50	50
2-NITROPHENOL	U	ug/L	-20	20
3- & 4-METHYLPHENOL	U	ug/L	-20	20
3,3-DICHLOROBENZIDINE	U	ug/L	-50	50
3-NITROANILINE	U	ug/L	-50	50
4,6-DINITRO-2-METHYLPHENOL	U	ug/L	-50	50
4-BROMOPHENYL PHENYL ETHER	U	ug/L	-10	10
4-CHLORO-3-METHYLPHENOL	U	ug/L	-10	10
4-CHLOROANILINE	U	ug/L	-10	10
4-CHLOROPHENYL PHENYL ETHER	U	ug/L	-10	10
4-NITROANILINE	U	ug/L	-50	50
4-NITROPHENOL	U	ug/L	-50	50
ACENAPHTHENE	U	ug/L	-10	10
ACENAPHTHYLENE	U	ug/L	-10	10
ALPHA-TERPINEOL	U	ug/L	-10	10
ANILINE	U	ug/L	-50	50
ANTHRACENE	U	ug/L	-10	10
AZOBENZENE	U	ug/L	-50	50
BENZIDINE	U	ug/L	-20	20
BENZO(A)ANTHRACENE	U	ug/L	-10	10
BENZO(A)PYRENE	U	ug/L	-10	10
BENZO(B)FLUORANTHENE	U	ug/L	-10	10
BENZO(G,H,I)PERYLENE	U	ug/L	-10	10
BENZO(K)FLUORANTHENE	U	ug/L	-10	10
BENZOIC ACID	U	ug/L	-50	50
BENZYL ALCOHOL	U	ug/L	-10	10
BIS(2-CHLOROETHOXY)METHANE	U	ug/L	-10	10
BIS(2-CHLOROETHYL) ETHER	U	ug/L	-10	10
BIS(2-CHLOROISOPROPYL) ETHER	U	ug/L	-10	10
BIS(2-ETHYLHEXYL) PHTHALATE	U	ug/L	-20	20
BUTYL BENZYL PHTHALATE	U	ug/L	-10	10
CHRYSENE	U	ug/L	-10	10
DIBENZO(A,H)ANTHRACENE	U	ug/L	-10	10
DIBENZOFURAN	U	ug/L	-10	10
DIETHYLPHTHALATE	U	ug/L	-10	10
DIMETHYL PHTHALATE	U	ug/L	-10	10
DI-N-BUTYL PHTHALATE	U	ug/L	-10	10
DI-N-OCTYL PHTHALATE	U	ug/L	-10	10
FLUORANTHENE	U	ug/L	-10	10
FLUORENE	U	ug/L	-10	10
HEXACHLOROBENZENE	U	ug/L	-10	10
HEXACHLOROBUTADIENE	U	ug/L	-10	10
HEXACHLOROCYCLOPENTADIENE	U	ug/L	-20	20
HEXACHLOROETHANE	U	ug/L	-10	10
INDENO(1,2,3-CD)PYRENE	U	ug/L	-10	10
ISOPHORONE	U	ug/L	-10	10
NAPHTHALENE	U	ug/L	-10	10

Ouray Silver Mines

ACZ Project ID: **L66294**

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.

NITROBENZENE	U	ug/L	-10	10	
N-NITROSODIMETHYLAMINE	U	ug/L	-50	50	
N-NITROSODI-N-PROPYLAMINE	U	ug/L	-10	10	
N-NITROSODIPHENYLAMINE	U	ug/L	-10	10	
PENTACHLOROPHENOL	U	ug/L	-50	50	
PHENANTHRENE	U	ug/L	-10	10	
PHENOL	U	ug/L	-20	20	
PYRENE	U	ug/L	-10	10	
PYRIDINE	U	ug/L	-10	10	
2,4,6-TRIBROMOPHENOL (surr)		%	66.7	50	125
2-FLUOROBIPHENYL (surr)		%	66.6	44	119
2-FLUOROPHENOL (surr)		%	35.7	54	100
NITROBENZENE-D5 (surr)		%	68.4	44	120
PHENOL-D6 (surr)		%	0.2	47	113
TERPHENYL-D14 (surr)		%	19.7	50	134

S13

S13

S13

Ouray Silver Mines

ACZ Project ID: **L66294**

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.

Oil & Grease, Total Recoverable

1664A/B - Gravimetric

WG520864

LCSW	Sample ID: WG520864LCSW			PCN/SCN: OP210513-2			Analyzed: 06/11/21 15:07			
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
OIL AND GREASE	40		29.5	mg/L	74.0	78	114			RL

LCSWD		Sample ID: WG520864LCSWD			PCN/SCN: OP210513-2			Analyzed: 06/11/21 15:40			
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual	
OIL AND GREASE	40		35.3	mg/L	88.0	78	114	18	18		

PBW		Sample ID: WG520864PBW						Analyzed:		06/11/21 9:15	
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual	
OIL AND GREASE			U	mg/L							

ACZ Project ID: **L66294**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66294-01	WG521878	*All Compounds*	M8270D/E GC/MS	Q6	Sample was received above recommended temperature.
		1,2,4-Trichlorobenzene	M8270D/E GC/MS	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).
		1,2-Dichlorobenzene	M8270D/E GC/MS	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.
			M8270D/E GC/MS	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).
		1,3-Dichlorobenzene	M8270D/E GC/MS	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.
			M8270D/E GC/MS	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).
		1,4-Dichlorobenzene	M8270D/E GC/MS	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.
			M8270D/E GC/MS	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).
		1,4-Dioxane	M8270D/E GC/MS	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.
			M8270D/E GC/MS	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).
		2,4,5-Trichlorophenol	M8270D/E GC/MS	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).
		2,4,6-Trichlorophenol	M8270D/E GC/MS	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).
		2,4-Dichlorophenol	M8270D/E GC/MS	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).
		2,4-Dimethylphenol	M8270D/E GC/MS	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).
		2,4-Dinitrophenol	M8270D/E GC/MS	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).
		2,4-Dinitrotoluene	M8270D/E GC/MS	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).
		2,6-Dinitrotoluene	M8270D/E GC/MS	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).
		2-Chloronaphthalene	M8270D/E GC/MS	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).
		2-Chlorophenol	M8270D/E GC/MS	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).
		2-Methylnaphthalene	M8270D/E GC/MS	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).
		2-Methylphenol	M8270D/E GC/MS	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).
		2-Nitroaniline	M8270D/E GC/MS	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).
		2-Nitrophenol	M8270D/E GC/MS	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).
		3- & 4-Methylphenol	M8270D/E GC/MS	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).

REPAD.15.06.05.01

ACZ Project ID: **L66294**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
		3,3-Dichlorobenzidine	M8270D/E GC/MS	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).
		3-Nitroaniline	M8270D/E GC/MS	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).
		4,6-Dinitro-2-methylphenol	M8270D/E GC/MS	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).
		4-Bromophenyl phenyl ether	M8270D/E GC/MS	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).
		4-Chloro-3-methylphenol	M8270D/E GC/MS	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).
		4-Chloroaniline	M8270D/E GC/MS	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).
		4-Chlorophenyl phenyl ether	M8270D/E GC/MS	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).
		4-Nitroaniline	M8270D/E GC/MS	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).
		4-Nitrophenol	M8270D/E GC/MS	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).
		Acenaphthene	M8270D/E GC/MS	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).
		Acenaphthylene	M8270D/E GC/MS	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).
		Alpha-terpineol	M8270D/E GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8270D/E GC/MS	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).
		Aniline	M8270D/E GC/MS	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).
		Anthracene	M8270D/E GC/MS	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).
		Azobenzene	M8270D/E GC/MS	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).
		Benzdine	M8270D/E GC/MS	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).
		Benzo(a)anthracene	M8270D/E GC/MS	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).
		Benzo(a)pyrene	M8270D/E GC/MS	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).
		Benzo(b)fluoranthene	M8270D/E GC/MS	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).
		Benzo(g,h,i)perylene	M8270D/E GC/MS	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).
		Benzo(k)fluoranthene	M8270D/E GC/MS	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).
		Benzoic Acid	M8270D/E GC/MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
		Benzyl alcohol	M8270D/E GC/MS	RA	sample is too low for accurate evaluation (< 10x MDL). 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).
		Bis(2-chloroethoxy)methane	M8270D/E GC/MS	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).
		Bis(2-chloroethyl) ether	M8270D/E GC/MS	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).
		Bis(2-chloroisopropyl) ether	M8270D/E GC/MS	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).
		Bis(2-ethylhexyl) phthalate	M8270D/E GC/MS	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).
		Butyl benzyl phthalate	M8270D/E GC/MS	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).
		Chrysene	M8270D/E GC/MS	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).
		Dibenzo(a,h)anthracene	M8270D/E GC/MS	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).
		Dibenzofuran	M8270D/E GC/MS	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).
		Diethylphthalate	M8270D/E GC/MS	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).
		Dimethyl phthalate	M8270D/E GC/MS	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).
		Di-n-butyl phthalate	M8270D/E GC/MS	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).
		Di-n-octyl phthalate	M8270D/E GC/MS	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).
		Fluoranthene	M8270D/E GC/MS	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).
		Fluorene	M8270D/E GC/MS	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).
		Hexachlorobenzene	M8270D/E GC/MS	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).
		Hexachlorobutadiene	M8270D/E GC/MS	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).
		Hexachlorocyclopentadiene	M8270D/E GC/MS	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).
		Hexachloroethane	M8270D/E GC/MS	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.
			M8270D/E GC/MS	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).
		Indeno(1,2,3-cd)pyrene	M8270D/E GC/MS	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).
		Isophorone	M8270D/E GC/MS	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).

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
		Naphthalene	M8270D/E GC/MS	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).
		Nitrobenzene	M8270D/E GC/MS	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).
		N-Nitrosodimethylamine	M8270D/E GC/MS	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).
		N-Nitrosodi-n-propylamine	M8270D/E GC/MS	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).
		N-Nitrosodiphenylamine	M8270D/E GC/MS	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).
		Pentachlorophenol	M8270D/E GC/MS	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).
		Phenanthrene	M8270D/E GC/MS	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).
		Phenol	M8270D/E GC/MS	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).
		Pyrene	M8270D/E GC/MS	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).
		Pyridine	M8270D/E GC/MS	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).
L66294-02	WG521878	*All Compounds*	M8270D/E GC/MS	Q6	Sample was received above recommended temperature.
		1,2,4-Trichlorobenzene	M8270D/E GC/MS	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).
		1,2-Dichlorobenzene	M8270D/E GC/MS	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.
			M8270D/E GC/MS	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).
		1,3-Dichlorobenzene	M8270D/E GC/MS	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.
			M8270D/E GC/MS	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).
		1,4-Dichlorobenzene	M8270D/E GC/MS	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.
			M8270D/E GC/MS	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).
		1,4-Dioxane	M8270D/E GC/MS	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.
			M8270D/E GC/MS	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).
		2,4,5-Trichlorophenol	M8270D/E GC/MS	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).
		2,4,6-Trichlorophenol	M8270D/E GC/MS	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).
		2,4-Dichlorophenol	M8270D/E GC/MS	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).
		2,4-Dimethylphenol	M8270D/E GC/MS	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).

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
		2,4-Dinitrophenol	M8270D/E GC/MS	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).
		2,4-Dinitrotoluene	M8270D/E GC/MS	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).
		2,6-Dinitrotoluene	M8270D/E GC/MS	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).
		2-Chloronaphthalene	M8270D/E GC/MS	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).
		2-Chlorophenol	M8270D/E GC/MS	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).
		2-Methylnaphthalene	M8270D/E GC/MS	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).
		2-Methylphenol	M8270D/E GC/MS	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).
		2-Nitroaniline	M8270D/E GC/MS	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).
		2-Nitrophenol	M8270D/E GC/MS	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).
		3- & 4-Methylphenol	M8270D/E GC/MS	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).
		3,3-Dichlorobenzidine	M8270D/E GC/MS	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).
		3-Nitroaniline	M8270D/E GC/MS	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).
		4,6-Dinitro-2-methylphenol	M8270D/E GC/MS	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).
		4-Bromophenyl phenyl ether	M8270D/E GC/MS	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).
		4-Chloro-3-methylphenol	M8270D/E GC/MS	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).
		4-Chloroaniline	M8270D/E GC/MS	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).
		4-Chlorophenyl phenyl ether	M8270D/E GC/MS	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).
		4-Nitroaniline	M8270D/E GC/MS	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).
		4-Nitrophenol	M8270D/E GC/MS	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).
		Acenaphthene	M8270D/E GC/MS	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).
		Acenaphthylene	M8270D/E GC/MS	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).
		Alpha-terpineol	M8270D/E GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8270D/E GC/MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
		Aniline	M8270D/E GC/MS	RA	sample is too low for accurate evaluation (< 10x MDL). 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).
		Anthracene	M8270D/E GC/MS	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).
		Azobenzene	M8270D/E GC/MS	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).
		Benzidine	M8270D/E GC/MS	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).
		Benzo(a)anthracene	M8270D/E GC/MS	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).
		Benzo(a)pyrene	M8270D/E GC/MS	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).
		Benzo(b)fluoranthene	M8270D/E GC/MS	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).
		Benzo(g,h,i)perylene	M8270D/E GC/MS	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).
		Benzo(k)fluoranthene	M8270D/E GC/MS	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).
		Benzoic Acid	M8270D/E GC/MS	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).
		Benzyl alcohol	M8270D/E GC/MS	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).
		Bis(2-chloroethoxy)methane	M8270D/E GC/MS	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).
		Bis(2-chloroethyl) ether	M8270D/E GC/MS	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).
		Bis(2-chloroisopropyl) ether	M8270D/E GC/MS	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).
		Bis(2-ethylhexyl) phthalate	M8270D/E GC/MS	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).
		Butyl benzyl phthalate	M8270D/E GC/MS	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).
		Chrysene	M8270D/E GC/MS	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).
		Dibenzo(a,h)anthracene	M8270D/E GC/MS	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).
		Dibenzofuran	M8270D/E GC/MS	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).
		Diethylphthalate	M8270D/E GC/MS	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).
		Dimethyl phthalate	M8270D/E GC/MS	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).
		Di-n-butyl phthalate	M8270D/E GC/MS	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).

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
		Di-n-octyl phthalate	M8270D/E GC/MS	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).
		Fluoranthene	M8270D/E GC/MS	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).
		Fluorene	M8270D/E GC/MS	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).
		Hexachlorobenzene	M8270D/E GC/MS	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).
		Hexachlorobutadiene	M8270D/E GC/MS	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).
		Hexachlorocyclopentadiene	M8270D/E GC/MS	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).
		Hexachloroethane	M8270D/E GC/MS	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.
			M8270D/E GC/MS	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).
		Indeno(1,2,3-cd)pyrene	M8270D/E GC/MS	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).
		Isophorone	M8270D/E GC/MS	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).
		Naphthalene	M8270D/E GC/MS	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).
		Nitrobenzene	M8270D/E GC/MS	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).
		N-Nitrosodimethylamine	M8270D/E GC/MS	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).
		N-Nitrosodi-n-propylamine	M8270D/E GC/MS	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).
		N-Nitrosodiphenylamine	M8270D/E GC/MS	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).
		Pentachlorophenol	M8270D/E GC/MS	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).
		Phenanthrene	M8270D/E GC/MS	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).
		Phenol	M8270D/E GC/MS	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).
		Pyrene	M8270D/E GC/MS	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).
		Pyridine	M8270D/E GC/MS	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).
L66294-03	WG521878	*All Compounds*	M8270D/E GC/MS	Q6	Sample was received above recommended temperature.
		1,2,4-Trichlorobenzene	M8270D/E GC/MS	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).
		1,2-Dichlorobenzene	M8270D/E GC/MS	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
			M8270D/E GC/MS	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).
		1,3-Dichlorobenzene	M8270D/E GC/MS	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.
			M8270D/E GC/MS	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).
		1,4-Dichlorobenzene	M8270D/E GC/MS	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.
			M8270D/E GC/MS	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).
		1,4-Dioxane	M8270D/E GC/MS	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.
			M8270D/E GC/MS	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).
		2,4,5-Trichlorophenol	M8270D/E GC/MS	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).
		2,4,6-Trichlorophenol	M8270D/E GC/MS	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).
		2,4-Dichlorophenol	M8270D/E GC/MS	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).
		2,4-Dimethylphenol	M8270D/E GC/MS	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).
		2,4-Dinitrophenol	M8270D/E GC/MS	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).
		2,4-Dinitrotoluene	M8270D/E GC/MS	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).
		2,6-Dinitrotoluene	M8270D/E GC/MS	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).
		2-Chloronaphthalene	M8270D/E GC/MS	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).
		2-Chlorophenol	M8270D/E GC/MS	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).
		2-Fluorophenol	M8270D/E GC/MS	N1	See Case Narrative.
		2-Methylnaphthalene	M8270D/E GC/MS	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).
		2-Methylphenol	M8270D/E GC/MS	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).
		2-Nitroaniline	M8270D/E GC/MS	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).
		2-Nitrophenol	M8270D/E GC/MS	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).
		3- & 4-Methylphenol	M8270D/E GC/MS	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).
		3,3-Dichlorobenzidine	M8270D/E GC/MS	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).
		3-Nitroaniline	M8270D/E GC/MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
					sample is too low for accurate evaluation (< 10x MDL).
		4,6-Dinitro-2-methylphenol	M8270D/E GC/MS	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).
		4-Bromophenyl phenyl ether	M8270D/E GC/MS	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).
		4-Chloro-3-methylphenol	M8270D/E GC/MS	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).
		4-Chloroaniline	M8270D/E GC/MS	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).
		4-Chlorophenyl phenyl ether	M8270D/E GC/MS	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).
		4-Nitroaniline	M8270D/E GC/MS	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).
		4-Nitrophenol	M8270D/E GC/MS	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).
		Acenaphthene	M8270D/E GC/MS	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).
		Acenaphthylene	M8270D/E GC/MS	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).
		Alpha-terpineol	M8270D/E GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8270D/E GC/MS	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).
		Aniline	M8270D/E GC/MS	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).
		Anthracene	M8270D/E GC/MS	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).
		Azobenzene	M8270D/E GC/MS	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).
		Benzdine	M8270D/E GC/MS	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).
		Benzo(a)anthracene	M8270D/E GC/MS	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).
		Benzo(a)pyrene	M8270D/E GC/MS	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).
		Benzo(b)fluoranthene	M8270D/E GC/MS	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).
		Benzo(g,h,i)perylene	M8270D/E GC/MS	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).
		Benzo(k)fluoranthene	M8270D/E GC/MS	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).
		Benzoic Acid	M8270D/E GC/MS	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).
		Benzyl alcohol	M8270D/E GC/MS	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).

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
		Bis(2-chloroethoxy)methane	M8270D/E GC/MS	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).
		Bis(2-chloroethyl) ether	M8270D/E GC/MS	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).
		Bis(2-chloroisopropyl) ether	M8270D/E GC/MS	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).
		Bis(2-ethylhexyl) phthalate	M8270D/E GC/MS	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).
		Butyl benzyl phthalate	M8270D/E GC/MS	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).
		Chrysene	M8270D/E GC/MS	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).
		Dibenzo(a,h)anthracene	M8270D/E GC/MS	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).
		Dibenzofuran	M8270D/E GC/MS	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).
		Diethylphthalate	M8270D/E GC/MS	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).
		Dimethyl phthalate	M8270D/E GC/MS	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).
		Di-n-butyl phthalate	M8270D/E GC/MS	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).
		Di-n-octyl phthalate	M8270D/E GC/MS	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).
		Fluoranthene	M8270D/E GC/MS	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).
		Fluorene	M8270D/E GC/MS	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).
		Hexachlorobenzene	M8270D/E GC/MS	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).
		Hexachlorobutadiene	M8270D/E GC/MS	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).
		Hexachlorocyclopentadiene	M8270D/E GC/MS	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).
		Hexachloroethane	M8270D/E GC/MS	R1	RPD exceeded the method or laboratory acceptance limit. See Case Narrative.
			M8270D/E GC/MS	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).
		Indeno(1,2,3-cd)pyrene	M8270D/E GC/MS	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).
		Isophorone	M8270D/E GC/MS	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).
		Naphthalene	M8270D/E GC/MS	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).
		Nitrobenzene	M8270D/E GC/MS	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated

REPAD.15.06.05.01

ACZ Project ID: **L66294**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
		N-Nitrosodimethylamine	M8270D/E GC/MS	RA	sample is too low for accurate evaluation (< 10x MDL). 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).
		N-Nitrosodi-n-propylamine	M8270D/E GC/MS	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).
		N-Nitrosodiphenylamine	M8270D/E GC/MS	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).
		Pentachlorophenol	M8270D/E GC/MS	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).
		Phenanthrene	M8270D/E GC/MS	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).
		Phenol	M8270D/E GC/MS	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).
		Pyrene	M8270D/E GC/MS	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).
		Pyridine	M8270D/E GC/MS	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).
L66294-04	WG520864	Oil and Grease	1664A/B - Gravimetric	Q6	Sample was received above recommended temperature.
			1664A/B - Gravimetric	Q9	Insufficient sample received to meet method QC requirements.
			1664A/B - Gravimetric	RL	Recovery for either the LCS or LCS duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.

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ACZ Project ID: **L66294**

GC/MS

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

1,4-Dioxane

M8270D/E GC/MS

Ouray Silver Mines

ACZ Project ID: L66294

Date Received: 06/04/2021 11:47

Received By:

Date Printed: 6/7/2021

Receipt Verification

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

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	☐	☒	☐
L66294-01 Container B2411346 (VIAL P): This container was received broken.			
9) Are all labels on containers and are they intact and legible?	☒	☐	☐
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	☒	☐	☐
11) For preserved bottle types, was the pH checked and within limits? ¹	☒	☐	☐
12) Is there sufficient sample volume to perform all requested work?	☒	☐	☐
13) Is the custody seal intact on all containers?	☐	☐	☒
14) Are samples that require zero headspace acceptable?	☒	☐	☐
15) Are all sample containers appropriate for analytical requirements?	☒	☐	☐
16) Is there an Hg-1631 trip blank present?	☐	☐	☒
17) Is there a VOA trip blank present?	☐	☒	☐
18) Were all samples received within hold time?	☒	☐	☐

NA indicates Not Applicable

Chain of Custody Related Remarks

Ouray Silver Mines

ACZ Project ID: L66294

Date Received: 06/04/2021 11:47

Received By:

Date Printed: 6/7/2021

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
-----	-----	-----	-----	-----
6109	12.1	<=6.0	15	N/A

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s) but was thawed by receipt at ACZ.

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

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).

June 30, 2021

Report to:

Briana Greer
Ouray Silver Mines
285 S. Madison Ave.

Louisville, CO 80027

cc: Chris Bolane

Bill to:

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

Project ID:

ACZ Project ID: L66516

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 16, 2021. This project has been assigned to ACZ's project number, L66516. Please reference this number in all future inquiries.

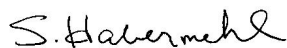
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L66516. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 July 30, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: OF002A

ACZ Sample ID: **L66516-01**

Date Sampled: 06/15/21 11:15

Date Received: 06/16/21

Sample Matrix: Waste Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002- 31.5.31 (2009)								06/17/21 10:50	ssr/bsu
Cyanide, WAD	SM4500-CN I- distillation		-						06/22/21 13:49	syw
Total Hot Plate Digestion	M200.2 ICP								06/21/21 18:05	jlw
Total Recoverable Digestion	M200.2 ICP								06/21/21 14:35	jlw

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, potentially dissolved	M200.8 ICP-MS	1	0.000150	B		mg/L	0.00005	0.00025	06/22/21 9:52	mfm
Copper, potentially dissolved	M200.8 ICP-MS	1	0.00144	B		mg/L	0.0008	0.002	06/22/21 9:52	mfm
Iron, total recoverable	M200.7 ICP	1	0.332			mg/L	0.06	0.15	06/22/21 17:24	jlw
Lead, potentially dissolved	M200.8 ICP-MS	1	0.0106			mg/L	0.0001	0.0005	06/22/21 9:52	mfm
Lead, total	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.15	06/22/21 13:06	kja
Manganese, potentially dissolved	M200.8 ICP-MS	1	0.536			mg/L	0.0004	0.002	06/22/21 9:52	mfm
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	06/23/21 8:30	mlh
Silver, potentially dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/22/21 9:52	mfm
Zinc, potentially dissolved	M200.8 ICP-MS	1	0.0278			mg/L	0.006	0.015	06/22/21 9:52	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	06/23/21 14:39	md
pH (lab)	SM4500H+ B									
pH		1	8.0	H		units	0.1	0.1	06/18/21 0:00	eep
pH measured at		1	20.3			C	0.1	0.1	06/18/21 0:00	eep
Residue, Non- Filterable (TSS) @105C	SM2540D	1	5.0	B	*	mg/L	5	20	06/18/21 15:40	cgm


Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L66516**

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.

Cadmium, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521570													
WG521570ICV	ICV	06/22/21 9:45	MS210503-1	.05		.052336	mg/L	105	90	110			
WG521570ICB	ICB	06/22/21 9:46				U	mg/L		-0.00011	0.00011			
WG521570LFB	LFB	06/22/21 9:48	MS210610-2	.05005		.051187	mg/L	102	85	115			
WG521274PBW	PBW	06/22/21 9:50				U	mg/L		-0.00015	0.00015			
L66536-03AS	AS	06/22/21 9:59	MS210610-2	.05005	.000053	.049077	mg/L	98	70	130			
L66536-03ASD	ASD	06/22/21 10:01	MS210610-2	.05005	.000053	.050457	mg/L	101	70	130	3	20	

Copper, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521570													
WG521570ICV	ICV	06/22/21 9:45	MS210503-1	.05		.0534	mg/L	107	90	110			
WG521570ICB	ICB	06/22/21 9:46				U	mg/L		-0.00176	0.00176			
WG521570LFB	LFB	06/22/21 9:48	MS210610-2	.05		.05195	mg/L	104	85	115			
WG521274PBW	PBW	06/22/21 9:50				U	mg/L		-0.0024	0.0024			
L66536-03AS	AS	06/22/21 9:59	MS210610-2	.05	.00101	.04328	mg/L	85	70	130			
L66536-03ASD	ASD	06/22/21 10:01	MS210610-2	.05	.00101	.04364	mg/L	85	70	130	1	20	

Cyanide, WAD

SM4500-CN I,E-Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521742													
WG521742ICV	ICV	06/23/21 14:35	WI210616-7	.3		.2988	mg/L	100	90	110			
WG521742ICB	ICB	06/23/21 14:36				U	mg/L		-0.003	0.003			
WG521627LRB	LRB	06/23/21 14:37				U	mg/L		-0.003	0.003			
WG521627LFB	LFB	06/23/21 14:38	WI210616-6	.2		.1964	mg/L	98	90	110			
L66516-01DUP	DUP	06/23/21 14:40			U	U	mg/L				0	20	RA
L66524-01LFM	LFM	06/23/21 14:41	WI210616-6	.2	U	.1548	mg/L	77	90	110			M2

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521606													
WG521606ICV	ICV	06/22/21 16:04	II210608-1	2		1.979	mg/L	99	95	105			
WG521606ICB	ICB	06/22/21 16:10				U	mg/L		-0.18	0.18			
WG521472LRB	LRB	06/22/21 16:26				U	mg/L		-0.132	0.132			
WG521472LFB	LFB	06/22/21 16:29	II210614-2	1.0018		1.012	mg/L	101	85	115			
L66546-07LFM	LFM	06/22/21 17:47	II210614-2	1.0018	17.6	18.46	mg/L	86	70	130			
L66546-07LFMD	LFMD	06/22/21 17:50	II210614-2	1.0018	17.6	18.372	mg/L	77	70	130	0	20	

Lead, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521570													
WG521570ICV	ICV	06/22/21 9:45	MS210503-1	.05		.05299	mg/L	106	90	110			
WG521570ICB	ICB	06/22/21 9:46				U	mg/L		-0.00022	0.00022			
WG521570LFB	LFB	06/22/21 9:48	MS210610-2	.05005		.05272	mg/L	105	85	115			
WG521274PBW	PBW	06/22/21 9:50				U	mg/L		-0.0003	0.0003			
L66536-03AS	AS	06/22/21 9:59	MS210610-2	.05005	.00034	.05736	mg/L	114	70	130			
L66536-03ASD	ASD	06/22/21 10:01	MS210610-2	.05005	.00034	.05913	mg/L	117	70	130	3	20	

Ouray Silver Mines

ACZ Project ID: **L66516**

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.

Lead, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521600													
WG521600ICV	ICV	06/22/21 11:55	II210620-2	4		3.976	mg/L	99	95	105			
WG521600ICB	ICB	06/22/21 12:01				U	mg/L		-0.09	0.09			
WG521514LRB	LRB	06/22/21 12:13				U	mg/L		-0.066	0.066			
WG521514LFB	LFB	06/22/21 12:16	II210614-2	1.0014		.963	mg/L	96	85	115			
L66528-03LFM	LFM	06/22/21 13:27	II2XWATER	2.0034	2.63	4.402	mg/L	88	70	130			
L66528-03LFMD	LFMD	06/22/21 13:30	II2XWATER	2.0034	2.63	4.456	mg/L	91	70	130	1	20	

Manganese, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521570													
WG521570ICV	ICV	06/22/21 9:45	MS210503-1	.05		.0527	mg/L	105	90	110			
WG521570ICB	ICB	06/22/21 9:46				U	mg/L		-0.00088	0.00088			
WG521570LFB	LFB	06/22/21 9:48	MS210610-2	.0499		.05169	mg/L	104	85	115			
WG521274PBW	PBW	06/22/21 9:50				U	mg/L		-0.0012	0.0012			
L66536-03AS	AS	06/22/21 9:59	MS210610-2	.0499	.19	.23654	mg/L	93	70	130			
L66536-03ASD	ASD	06/22/21 10:01	MS210610-2	.0499	.19	.23733	mg/L	95	70	130	0	20	

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521579													
WG521579ICV1	ICV	06/23/21 8:15	HG210601-3	.00501		.00498	mg/L	99	95	105			
WG521579ICB	ICB	06/23/21 8:16				U	mg/L		-0.0002	0.0002			
WG521579LRB	LRB	06/23/21 8:18				U	mg/L		-0.00044	0.00044			
WG521579LFB	LFB	06/23/21 8:19	HG210601-6	.002002		.00182	mg/L	91	85	115			
L66513-01LFM	LFM	06/23/21 8:21	HG210601-6	.002002	U	.00177	mg/L	88	85	115			
L66513-01LFMD	LFMD	06/23/21 8:22	HG210601-6	.002002	U	.00174	mg/L	87	85	115	2	20	

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521319													
WG521319LCSW1	LCSW	06/17/21 19:46	PCN61687	6		6	units	100	5.9	6.1			
WG521319LCSW4	LCSW	06/17/21 23:01	PCN61687	6		6	units	100	5.9	6.1			
L66517-06DUP	DUP	06/18/21 2:04			8.1	8	units				1	20	
WG521319LCSW7	LCSW	06/18/21 2:09	PCN61687	6		6	units	100	5.9	6.1			
WG521319LCSW10	LCSW	06/18/21 5:21	PCN61687	6		6	units	100	5.9	6.1			
WG521319LCSW13	LCSW	06/18/21 8:45	PCN61687	6		6	units	100	5.9	6.1			

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521410													
WG521410PBW	PBW	06/18/21 15:20				U	mg/L		-2	2			
WG521410LCSW	LCSW	06/18/21 15:22	PCN63552	100		95	mg/L	95	80	120			
L66517-03DUP	DUP	06/18/21 15:51			12	13	mg/L				8	10	RA

Ouray Silver Mines

ACZ Project ID: **L66516**

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.

Silver, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521570													
WG521570ICV	ICV	06/22/21 9:45	MS210503-1	.02		.02069	mg/L	103	90	110			
WG521570ICB	ICB	06/22/21 9:46				U	mg/L		-0.00022	0.00022			
WG521570LFB	LFB	06/22/21 9:48	MS210610-2	.01002		.01057	mg/L	105	85	115			
WG521274PBW	PBW	06/22/21 9:50				U	mg/L		-0.0003	0.0003			
L66536-03AS	AS	06/22/21 9:59	MS210610-2	.01002	U	.00932	mg/L	93	70	130			
L66536-03ASD	ASD	06/22/21 10:01	MS210610-2	.01002	U	.01002	mg/L	100	70	130	7	20	

Zinc, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521570													
WG521570ICV	ICV	06/22/21 9:45	MS210503-1	.05		.0517	mg/L	103	90	110			
WG521570ICB	ICB	06/22/21 9:46				U	mg/L		-0.0132	0.0132			
WG521570LFB	LFB	06/22/21 9:48	MS210610-2	.050075		.0535	mg/L	107	85	115			
WG521274PBW	PBW	06/22/21 9:50				U	mg/L		-0.018	0.018			
L66536-03AS	AS	06/22/21 9:59	MS210610-2	.050075	.0074	.047	mg/L	79	70	130			
L66536-03ASD	ASD	06/22/21 10:01	MS210610-2	.050075	.0074	.0477	mg/L	80	70	130	1	20	

Ouray Silver Mines

ACZ Project ID: **L66516**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66516-01	WG521742	Cyanide, WAD	SM4500-CN I,E-Colorimetric w/ distillation	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500-CN I,E-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).
	WG521410	Residue, Non-Filterable (TSS) @105C	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

Ouray Silver Mines

Project ID:

Sample ID: OF002A

ACZ Sample ID: **L66516-01**

Date Sampled: 06/15/21 11:15

Date Received: 06/16/21

Sample Matrix: Waste Water

Oil & Grease, Total Recoverable

Analysis Method: **1664A/B - Gravimetric**

Extract Method:

Workgroup: **WG521609**

Analyst: TTG

Extract Date:

Analysis Date: 06/22/21 15:00

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Oil and Grease		<1.9	U	0.943	*	mg/L	1.9	9.4

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>Lower</i>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<i>LCL</i>	Lower Control Limit
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #4) Allows for instrument and annual fluctuations.
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>Upper</i>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<i>UCL</i>	Upper Control Limit
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>SURR</i>	Surrogate	<i>LFB</i>	Laboratory Fortified Blank
<i>INTS</i>	Internal Standard	<i>LFM</i>	Laboratory Fortified Matrix
<i>AS</i>	Analytical Spike (Post Digestion)	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>ASD</i>	Analytical Spike (Post Digestion) Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>DUP</i>	Sample Duplicate	<i>MS/MSD</i>	Matrix Spike/Matrix Spike Duplicate
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBS</i>	Prep Blank - Soil
<i>LCSW</i>	Laboratory Control Sample - Water	<i>PBW</i>	Prep Blank - Water

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.

ACZ Qualifiers (Qual)

O	Analyte concentration is estimated due to result exceeding calibration range.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
J	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
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 600/4-90/020. Methods for the Determination of Organic Compounds in Drinking Water (I), July 1990.
- (3) EPA 600/R-92/129. Methods for the Determination of Organic Compounds in Drinking Water (II), July 1990.
- (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) Excluding Oil & Grease, solid & biological matrices for organic analyses are reported on a wet weight basis.
- (3) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
- (4) 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>

Ouray Silver Mines

ACZ Project ID: **L66516**

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.

Oil & Grease, Total Recoverable

1664A/B - Gravimetric

WG521609

LCSW	Sample ID: WG521609LCSW			PCN/SCN: OP210622-2			Analyzed: 06/22/21 20:00			
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
OIL AND GREASE	40		31.6	mg/L	79.0	78	114			-

LCSWD		Sample ID: WG521609LCSWD		PCN/SCN: OP210622-2			Analyzed: 06/22/21 20:20			
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
OIL AND GREASE	40		36.6	mg/L	92.0	78	114	15	18	

PBW		Sample ID: WG521609PBW						Analyzed: 06/22/21 13:00		
Compound	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
OIL AND GREASE			U	mg/L						

ACZ Project ID: **L66516**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66516-01	WG521609	Oil and Grease	1664A/B - Gravimetric	Q5	Sample received with inadequate chemical preservation. Additional preservation performed by the laboratory.
			1664A/B - Gravimetric	Q9	Insufficient sample received to meet method QC requirements.

Ouray Silver Mines

ACZ Project ID: **L66516**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L66516

Date Received: 06/16/2021 10:53

Received By:

Date Printed: 6/17/2021

Receipt Verification

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

Samples/Containers

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

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?
-----	-----	-----	-----	-----
4526	5.1	<=6.0	15	Yes

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.

Ouray Silver Mines

ACZ Project ID: L66516

Date Received: 06/16/2021 10:53

Received By:

Date Printed: 6/17/2021

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).

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

Report to:

Name: Brian Green		Address:
Company: Solid Solutions Geosciences		
E-mail: brian@solid.solutionsgeosciences.com		Telephone:

Copy of Report to:

Name: Chris Pedone	E-mail: purewater.enr1@gmail.com
Company: Pure Water Systems	Telephone:

Invoice to:

Name: <u>Ocuay Silver Mines</u>		Address:
Company:		
E-mail: <u>pablo@ocuay-silvermines.com</u>		Telephone:

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
NO

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

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

Sampler's Name: Chris
 Sampler's Site Information
 State CO
 Zip code 8052
 Time Zone MT

***Sampler's 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

ANALYSES REQUESTED (attach list or use quote number)

[illegible]

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
Chris	6/15 1400	CIP5	6/15 1400
			6/16/21 10:53

 -66516 Chain of Custody

July 08, 2021

Report to:
Briana Greer
Ouray Silver Mines
285 S. Madison Ave.

Louisville, CO 80027

cc: Chris Bolane

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

Project ID:
ACZ Project ID: L66517

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 16, 2021. This project has been assigned to ACZ's project number, L66517. 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 L66517. 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 August 07, 2021. 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.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: UG-0

ACZ Sample ID: **L66517-01**

Date Sampled: 06/15/21 10:45

Date Received: 06/16/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								06/25/21 11:03	md
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/23/21 13:26	emh

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	06/21/21 19:05	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	06/25/21 16:58	enb
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	06/25/21 16:58	enb
Barium, dissolved	M200.7 ICP	1	<0.007	U		mg/L	0.007	0.035	06/21/21 19:05	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	06/25/21 16:58	enb
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	06/21/21 19:05	kja
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	06/25/21 16:58	enb
Calcium, dissolved	M200.7 ICP	1	<0.1	U		mg/L	0.1	0.5	06/21/21 19:05	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	06/25/21 16:58	enb
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	06/25/21 16:58	enb
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	06/21/21 19:05	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/25/21 16:58	enb
Magnesium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	06/21/21 19:05	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	06/21/21 19:05	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	06/23/21 10:28	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.0005	06/25/21 16:58	enb
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/21/21 19:05	kja
Potassium, dissolved	M200.7 ICP	1	0.24	B		mg/L	0.2	1	06/21/21 19:05	kja
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	06/25/21 16:58	enb
Silica, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	06/21/21 19:05	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/25/21 16:58	enb
Sodium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	06/21/21 19:05	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/25/21 16:58	enb
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/25/21 16:58	enb
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	06/21/21 19:05	kja
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	06/21/21 19:05	kja

Ouray Silver Mines

Project ID:

Sample ID: UG-0

ACZ Sample ID: **L66517-01**

Date Sampled: 06/15/21 10:45

Date Received: 06/16/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/18/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/18/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	06/18/21 0:00	eep
Total Alkalinity		1	<2	U		mg/L	2	20	06/18/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			n/a			%			07/08/21 0:00	calc
Sum of Anions			<	U		meq/L			07/08/21 0:00	calc
Sum of Cations			<	U		meq/L			07/08/21 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	06/25/21 13:30	wtc
Conductivity @25C	SM2510B	1	<1	U		umhos/cm	1	10	06/18/21 1:11	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U		mg/L	0.003	0.01	06/26/21 22:54	pjb
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	06/23/21 14:09	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		<0.2	U		mg/L	0.2	5	07/08/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	<0.02	U		mg/L	0.02	0.1	06/26/21 2:01	pjb
pH (lab)	SM4500H+ B									
pH		1	6.1	H		units	0.1	0.1	06/18/21 0:00	eep
pH measured at		1	20.3			C	0.1	0.1	06/18/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	06/26/21 0:58	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	<20	U	*	mg/L	20	40	06/18/21 15:25	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	06/18/21 15:43	cgm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	<1	U	*	mg/L	1	5	07/06/21 11:12	wtc
TDS (calculated)	Calculation		0.24			mg/L			07/08/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		n/a						07/08/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: UG-99

ACZ Sample ID: **L66517-02**

Date Sampled: 06/15/21 10:30

Date Received: 06/16/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								06/25/21 11:12	md
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/23/21 13:42	emh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	0.156	B		mg/L	0.05	0.25	06/21/21 19:15	kja
Antimony, dissolved	M200.8 ICP-MS	1	0.00303			mg/L	0.0004	0.002	06/25/21 17:00	enb
Arsenic, dissolved	M200.8 ICP-MS	1	0.00445			mg/L	0.0002	0.001	06/25/21 17:00	enb
Barium, dissolved	M200.7 ICP	1	0.0452			mg/L	0.007	0.035	06/21/21 19:15	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	06/25/21 17:00	enb
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	06/21/21 19:15	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000547			mg/L	0.00005	0.00025	06/25/21 17:00	enb
Calcium, dissolved	M200.7 ICP	1	41.2			mg/L	0.1	0.5	06/21/21 19:15	kja
Chromium, dissolved	M200.8 ICP-MS	1	0.00090	B		mg/L	0.0005	0.002	06/25/21 17:00	enb
Copper, dissolved	M200.8 ICP-MS	1	0.00501			mg/L	0.0008	0.002	06/25/21 17:00	enb
Iron, dissolved	M200.7 ICP	1	0.634			mg/L	0.06	0.15	06/21/21 19:15	kja
Lead, dissolved	M200.8 ICP-MS	1	0.0708			mg/L	0.0001	0.0005	06/25/21 17:00	enb
Magnesium, dissolved	M200.7 ICP	1	2.00			mg/L	0.2	1	06/21/21 19:15	kja
Manganese, dissolved	M200.7 ICP	1	0.580			mg/L	0.01	0.05	06/21/21 19:15	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	06/23/21 10:29	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00689			mg/L	0.0002	0.0005	06/25/21 17:00	enb
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/21/21 19:15	kja
Potassium, dissolved	M200.7 ICP	1	0.56	B		mg/L	0.2	1	06/21/21 19:15	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00041			mg/L	0.0001	0.00025	06/25/21 17:00	enb
Silica, dissolved	M200.7 ICP	1	6.9			mg/L	0.2	1	06/21/21 19:15	kja
Silver, dissolved	M200.8 ICP-MS	1	0.00062			mg/L	0.0001	0.0005	06/25/21 17:00	enb
Sodium, dissolved	M200.7 ICP	1	3.99			mg/L	0.2	1	06/21/21 19:15	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/25/21 17:00	enb
Uranium, dissolved	M200.8 ICP-MS	1	0.00021	B		mg/L	0.0001	0.0005	06/25/21 17:00	enb
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	06/21/21 19:15	kja
Zinc, dissolved	M200.7 ICP	1	0.174			mg/L	0.02	0.05	06/21/21 19:15	kja

Ouray Silver Mines

Project ID:

Sample ID: UG-99

ACZ Sample ID: **L66517-02**

Date Sampled: 06/15/21 10:30

Date Received: 06/16/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	51.8			mg/L	2	20	06/18/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/18/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	06/18/21 0:00	eep
Total Alkalinity		1	51.8			mg/L	2	20	06/18/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			2.0			%			07/08/21 0:00	calc
Sum of Anions			2.4			meq/L			07/08/21 0:00	calc
Sum of Cations			2.5			meq/L			07/08/21 0:00	calc
Chloride	SM4500Cl-E	1	0.67	B	*	mg/L	0.5	2	06/25/21 13:30	wtc
Conductivity @25C	SM2510B	1	236			umhos/cm	1	10	06/18/21 1:20	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U		mg/L	0.003	0.01	06/26/21 22:55	pjb
Fluoride	SM4500F-C	1	0.18	B		mg/L	0.15	0.35	06/23/21 14:24	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		111			mg/L	0.2	5	07/08/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.599			mg/L	0.02	0.1	06/26/21 2:02	pjb
pH (lab)	SM4500H+ B									
pH		1	8.0	H		units	0.1	0.1	06/18/21 0:00	eep
pH measured at		1	20.2			C	0.1	0.1	06/18/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	06/26/21 1:00	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	144			mg/L	20	40	06/18/21 15:27	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	9.0	B	*	mg/L	5	20	06/18/21 15:46	cgm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	62.7		*	mg/L	5	25	07/06/21 11:38	wtc
TDS (calculated)	Calculation		153			mg/L			07/08/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.94						07/08/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: UG-5

ACZ Sample ID: **L66517-03**

Date Sampled: 06/15/21 10:30

Date Received: 06/16/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								06/25/21 11:21	md
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/23/21 13:50	emh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	0.162	B		mg/L	0.05	0.25	06/21/21 19:18	kja
Antimony, dissolved	M200.8 ICP-MS	1	0.00305			mg/L	0.0004	0.002	06/25/21 17:02	enb
Arsenic, dissolved	M200.8 ICP-MS	1	0.00449			mg/L	0.0002	0.001	06/25/21 17:02	enb
Barium, dissolved	M200.7 ICP	1	0.0446			mg/L	0.007	0.035	06/21/21 19:18	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	06/25/21 17:02	enb
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	06/21/21 19:18	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000555			mg/L	0.00005	0.00025	06/25/21 17:02	enb
Calcium, dissolved	M200.7 ICP	1	40.6			mg/L	0.1	0.5	06/21/21 19:18	kja
Chromium, dissolved	M200.8 ICP-MS	1	0.00103	B		mg/L	0.0005	0.002	06/25/21 17:02	enb
Copper, dissolved	M200.8 ICP-MS	1	0.00527			mg/L	0.0008	0.002	06/25/21 17:02	enb
Iron, dissolved	M200.7 ICP	1	0.680			mg/L	0.06	0.15	06/21/21 19:18	kja
Lead, dissolved	M200.8 ICP-MS	1	0.0733			mg/L	0.0001	0.0005	06/25/21 17:02	enb
Magnesium, dissolved	M200.7 ICP	1	1.97			mg/L	0.2	1	06/21/21 19:18	kja
Manganese, dissolved	M200.7 ICP	1	0.601			mg/L	0.01	0.05	06/21/21 19:18	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	06/23/21 10:30	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00623			mg/L	0.0002	0.0005	06/25/21 17:02	enb
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/21/21 19:18	kja
Potassium, dissolved	M200.7 ICP	1	0.54	B		mg/L	0.2	1	06/21/21 19:18	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00037			mg/L	0.0001	0.00025	06/25/21 17:02	enb
Silica, dissolved	M200.7 ICP	1	6.9			mg/L	0.2	1	06/21/21 19:18	kja
Silver, dissolved	M200.8 ICP-MS	1	0.00062			mg/L	0.0001	0.0005	06/25/21 17:02	enb
Sodium, dissolved	M200.7 ICP	1	4.00			mg/L	0.2	1	06/21/21 19:18	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/25/21 17:02	enb
Uranium, dissolved	M200.8 ICP-MS	1	0.00021	B		mg/L	0.0001	0.0005	06/25/21 17:02	enb
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	06/21/21 19:18	kja
Zinc, dissolved	M200.7 ICP	1	0.183			mg/L	0.02	0.05	06/21/21 19:18	kja

Ouray Silver Mines

Project ID:

Sample ID: UG-5

ACZ Sample ID: **L66517-03**

Date Sampled: 06/15/21 10:30

Date Received: 06/16/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	51.0			mg/L	2	20	06/18/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/18/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	06/18/21 0:00	eep
Total Alkalinity		1	51.0			mg/L	2	20	06/18/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			8.7			%			07/08/21 0:00	calc
Sum of Anions			2.1			meq/L			07/08/21 0:00	calc
Sum of Cations			2.5			meq/L			07/08/21 0:00	calc
Chloride	SM4500Cl-E	1	0.60	B	*	mg/L	0.5	2	06/25/21 13:30	wtc
Conductivity @25C	SM2510B	1	221			umhos/cm	1	10	06/18/21 1:29	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U		mg/L	0.003	0.01	06/26/21 22:56	pjb
Fluoride	SM4500F-C	1	0.16	B		mg/L	0.15	0.35	06/23/21 14:43	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		109			mg/L	0.2	5	07/08/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.641			mg/L	0.02	0.1	06/26/21 2:08	pjb
pH (lab)	SM4500H+ B									
pH		1	8.0	H		units	0.1	0.1	06/18/21 0:00	eep
pH measured at		1	20.2			C	0.1	0.1	06/18/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.024	B	*	mg/L	0.01	0.05	06/26/21 1:01	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	138			mg/L	20	40	06/18/21 15:29	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	12.0	B	*	mg/L	5	20	06/18/21 15:48	cgm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	50.8		*	mg/L	5	25	07/06/21 11:38	wtc
TDS (calculated)	Calculation		140			mg/L			07/08/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.99						07/08/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: UG-4

ACZ Sample ID: **L66517-04**

Date Sampled: 06/15/21 09:30

Date Received: 06/16/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								06/25/21 11:30	md
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/23/21 13:59	emh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	0.438			mg/L	0.05	0.25	06/21/21 19:21	kja
Antimony, dissolved	M200.8 ICP-MS	1	0.0118			mg/L	0.0004	0.002	06/25/21 17:07	enb
Arsenic, dissolved	M200.8 ICP-MS	1	0.00741			mg/L	0.0002	0.001	06/25/21 17:07	enb
Barium, dissolved	M200.7 ICP	1	0.0366			mg/L	0.007	0.035	06/21/21 19:21	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	06/25/21 17:07	enb
Boron, dissolved	M200.7 ICP	1	0.033	B		mg/L	0.03	0.1	06/21/21 19:21	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000299			mg/L	0.00005	0.00025	06/25/21 17:07	enb
Calcium, dissolved	M200.7 ICP	1	41.1			mg/L	0.1	0.5	06/21/21 19:21	kja
Chromium, dissolved	M200.8 ICP-MS	1	0.00110	B		mg/L	0.0005	0.002	06/25/21 17:07	enb
Copper, dissolved	M200.8 ICP-MS	1	0.00713			mg/L	0.0008	0.002	06/25/21 17:07	enb
Iron, dissolved	M200.7 ICP	1	0.680			mg/L	0.06	0.15	06/21/21 19:21	kja
Lead, dissolved	M200.8 ICP-MS	1	0.0754			mg/L	0.0001	0.0005	06/25/21 17:07	enb
Magnesium, dissolved	M200.7 ICP	1	3.12			mg/L	0.2	1	06/21/21 19:21	kja
Manganese, dissolved	M200.7 ICP	1	0.126			mg/L	0.01	0.05	06/21/21 19:21	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	06/23/21 10:31	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00579			mg/L	0.0002	0.0005	06/25/21 17:07	enb
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/21/21 19:21	kja
Potassium, dissolved	M200.7 ICP	1	0.82	B		mg/L	0.2	1	06/21/21 19:21	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00044			mg/L	0.0001	0.00025	06/25/21 17:07	enb
Silica, dissolved	M200.7 ICP	1	6.1			mg/L	0.2	1	06/21/21 19:21	kja
Silver, dissolved	M200.8 ICP-MS	1	0.00047	B		mg/L	0.0001	0.0005	06/25/21 17:07	enb
Sodium, dissolved	M200.7 ICP	1	5.05			mg/L	0.2	1	06/21/21 19:21	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/25/21 17:07	enb
Uranium, dissolved	M200.8 ICP-MS	1	0.00025	B		mg/L	0.0001	0.0005	06/25/21 17:07	enb
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	06/21/21 19:21	kja
Zinc, dissolved	M200.7 ICP	1	0.082			mg/L	0.02	0.05	06/21/21 19:21	kja

Ouray Silver Mines

Project ID:

Sample ID: UG-4

ACZ Sample ID: **L66517-04**

Date Sampled: 06/15/21 09:30

Date Received: 06/16/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	44.1			mg/L	2	20	06/18/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/18/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	06/18/21 0:00	eep
Total Alkalinity		1	44.1			mg/L	2	20	06/18/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			8.0			%			07/08/21 0:00	calc
Sum of Anions			2.3			meq/L			07/08/21 0:00	calc
Sum of Cations			2.7			meq/L			07/08/21 0:00	calc
Chloride	SM4500Cl-E	1	0.72	B	*	mg/L	0.5	2	06/25/21 13:30	wtc
Conductivity @25C	SM2510B	1	255			umhos/cm	1	10	06/18/21 1:38	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U		mg/L	0.003	0.01	06/26/21 22:57	pjb
Fluoride	SM4500F-C	1	0.18	B		mg/L	0.15	0.35	06/23/21 14:47	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		115			mg/L	0.2	5	07/08/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	2.01			mg/L	0.02	0.1	06/26/21 2:09	pjb
pH (lab)	SM4500H+ B									
pH		1	8.0	H		units	0.1	0.1	06/18/21 0:00	eep
pH measured at		1	20.2			C	0.1	0.1	06/18/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.032	B	*	mg/L	0.01	0.05	06/26/21 1:05	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	176			mg/L	20	40	06/18/21 15:31	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	24.0		*	mg/L	5	20	06/18/21 15:54	cgm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	65.9		*	mg/L	5	25	07/06/21 11:40	wtc
TDS (calculated)	Calculation		153			mg/L			07/08/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.15						07/08/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: UG-8

ACZ Sample ID: **L66517-05**

Date Sampled: 06/15/21 09:50

Date Received: 06/16/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								06/25/21 11:39	md
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/23/21 14:07	emh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	0.472			mg/L	0.05	0.25	06/21/21 19:24	kja
Antimony, dissolved	M200.8 ICP-MS	1	0.0108			mg/L	0.0004	0.002	06/30/21 10:43	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00679			mg/L	0.0002	0.001	06/30/21 10:43	mfm
Barium, dissolved	M200.7 ICP	1	0.0350			mg/L	0.007	0.035	06/21/21 19:24	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	06/30/21 10:43	mfm
Boron, dissolved	M200.7 ICP	1	0.035	B		mg/L	0.03	0.1	06/21/21 19:24	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.00130			mg/L	0.00005	0.00025	06/30/21 10:43	mfm
Calcium, dissolved	M200.7 ICP	1	44.1		*	mg/L	0.1	0.5	06/21/21 19:24	kja
Chromium, dissolved	M200.8 ICP-MS	1	0.00089	B		mg/L	0.0005	0.002	06/30/21 10:43	mfm
Copper, dissolved	M200.8 ICP-MS	1	0.00504			mg/L	0.0008	0.002	06/30/21 10:43	mfm
Iron, dissolved	M200.7 ICP	1	0.677			mg/L	0.06	0.15	06/21/21 19:24	kja
Lead, dissolved	M200.8 ICP-MS	1	0.0579			mg/L	0.0001	0.0005	06/30/21 10:43	mfm
Magnesium, dissolved	M200.7 ICP	1	3.37			mg/L	0.2	1	06/21/21 19:24	kja
Manganese, dissolved	M200.7 ICP	1	1.98			mg/L	0.01	0.05	06/21/21 19:24	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	06/23/21 10:32	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00498			mg/L	0.0002	0.0005	06/30/21 10:43	mfm
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/21/21 19:24	kja
Potassium, dissolved	M200.7 ICP	1	0.83	B		mg/L	0.2	1	06/21/21 19:24	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00039			mg/L	0.0001	0.00025	06/30/21 10:43	mfm
Silica, dissolved	M200.7 ICP	1	6.8			mg/L	0.2	1	06/21/21 19:24	kja
Silver, dissolved	M200.8 ICP-MS	1	0.00049	B		mg/L	0.0001	0.0005	06/30/21 10:43	mfm
Sodium, dissolved	M200.7 ICP	1	6.16			mg/L	0.2	1	06/21/21 19:24	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/30/21 10:43	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.00027	B		mg/L	0.0001	0.0005	06/30/21 10:43	mfm
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	06/21/21 19:24	kja
Zinc, dissolved	M200.7 ICP	1	0.487			mg/L	0.02	0.05	06/21/21 19:24	kja

Ouray Silver Mines

Project ID:

Sample ID: UG-8

ACZ Sample ID: **L66517-05**

Date Sampled: 06/15/21 09:50

Date Received: 06/16/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	46.2			mg/L	2	20	06/18/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/18/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	06/18/21 0:00	eep
Total Alkalinity		1	46.2			mg/L	2	20	06/18/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			5.3			%			07/08/21 0:00	calc
Sum of Anions			2.7			meq/L			07/08/21 0:00	calc
Sum of Cations			3.0			meq/L			07/08/21 0:00	calc
Chloride	SM4500Cl-E	1	1.23	B	*	mg/L	0.5	2	06/25/21 13:32	wtc
Conductivity @25C	SM2510B	1	284			umhos/cm	1	10	06/18/21 1:46	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	0.0047	B		mg/L	0.003	0.01	06/26/21 22:58	pjb
Fluoride	SM4500F-C	1	0.22	B		mg/L	0.15	0.35	06/23/21 14:55	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		124			mg/L	0.2	5	07/08/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	1.68			mg/L	0.02	0.1	06/26/21 2:10	pjb
pH (lab)	SM4500H+ B									
pH		1	7.9	H		units	0.1	0.1	06/18/21 0:00	eep
pH measured at		1	20.1			C	0.1	0.1	06/18/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.030	B	*	mg/L	0.01	0.05	06/26/21 1:06	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	182			mg/L	20	40	06/18/21 15:33	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	21.0		*	mg/L	5	20	06/18/21 15:56	cgm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	80.5		*	mg/L	5	25	07/06/21 11:40	wtc
TDS (calculated)	Calculation		177			mg/L			07/08/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.03						07/08/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: UG-10

ACZ Sample ID: **L66517-06**

Date Sampled: 06/15/21 09:00

Date Received: 06/16/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								06/25/21 11:48	md
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/23/21 14:15	emh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	0.755			mg/L	0.05	0.25	06/21/21 19:27	kja
Antimony, dissolved	M200.8 ICP-MS	1	0.0131			mg/L	0.0004	0.002	07/02/21 17:58	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00605			mg/L	0.0002	0.001	06/30/21 10:45	mfm
Barium, dissolved	M200.7 ICP	1	0.0551			mg/L	0.007	0.035	06/21/21 19:27	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	06/30/21 10:45	mfm
Boron, dissolved	M200.7 ICP	1	0.046	B		mg/L	0.03	0.1	06/21/21 19:27	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000329			mg/L	0.00005	0.00025	06/30/21 10:45	mfm
Calcium, dissolved	M200.7 ICP	1	41.9		*	mg/L	0.1	0.5	06/21/21 19:27	kja
Chromium, dissolved	M200.8 ICP-MS	1	0.00139	B		mg/L	0.0005	0.002	06/30/21 10:45	mfm
Copper, dissolved	M200.8 ICP-MS	1	0.00567			mg/L	0.0008	0.002	06/30/21 10:45	mfm
Iron, dissolved	M200.7 ICP	1	0.682			mg/L	0.06	0.15	06/21/21 19:27	kja
Lead, dissolved	M200.8 ICP-MS	1	0.0530			mg/L	0.0001	0.0005	06/30/21 10:45	mfm
Magnesium, dissolved	M200.7 ICP	1	3.28			mg/L	0.2	1	06/21/21 19:27	kja
Manganese, dissolved	M200.7 ICP	1	0.119			mg/L	0.01	0.05	06/21/21 19:27	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	06/23/21 11:57	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00707			mg/L	0.0002	0.0005	06/30/21 10:45	mfm
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/21/21 19:27	kja
Potassium, dissolved	M200.7 ICP	1	1.20			mg/L	0.2	1	06/21/21 19:27	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00049			mg/L	0.0001	0.00025	06/30/21 10:45	mfm
Silica, dissolved	M200.7 ICP	1	7.4			mg/L	0.2	1	06/21/21 19:27	kja
Silver, dissolved	M200.8 ICP-MS	1	0.00048	B		mg/L	0.0001	0.0005	06/30/21 10:45	mfm
Sodium, dissolved	M200.7 ICP	1	8.71			mg/L	0.2	1	06/21/21 19:27	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/30/21 10:45	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.00020	B		mg/L	0.0001	0.0005	06/30/21 10:45	mfm
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	06/21/21 19:27	kja
Zinc, dissolved	M200.7 ICP	1	0.083			mg/L	0.02	0.05	06/21/21 19:27	kja

Ouray Silver Mines

Project ID:

Sample ID: UG-10

ACZ Sample ID: **L66517-06**

Date Sampled: 06/15/21 09:00

Date Received: 06/16/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	39.9			mg/L	2	20	06/18/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/18/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	06/18/21 0:00	eep
Total Alkalinity		1	39.9			mg/L	2	20	06/18/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			13.7			%			07/08/21 0:00	calc
Sum of Anions			2.2			meq/L			07/08/21 0:00	calc
Sum of Cations			2.9			meq/L			07/08/21 0:00	calc
Chloride	SM4500Cl-E	1	0.87	B	*	mg/L	0.5	2	06/25/21 13:32	wtc
Conductivity @25C	SM2510B	1	264			umhos/cm	1	10	06/18/21 1:55	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U		mg/L	0.003	0.01	06/26/21 22:59	pjb
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	06/23/21 15:02	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		118			mg/L	0.2	5	07/08/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	3	5.58			mg/L	0.06	0.3	06/26/21 2:16	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	06/18/21 0:00	eep
pH measured at		1	20.0			C	0.1	0.1	06/18/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.067		*	mg/L	0.01	0.05	06/26/21 1:07	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	164			mg/L	20	40	06/18/21 15:35	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	48.0		*	mg/L	5	20	06/18/21 15:59	cgm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	65.5		*	mg/L	5	25	07/06/21 11:40	wtc
TDS (calculated)	Calculation		157			mg/L			07/08/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.04						07/08/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: UG-2

ACZ Sample ID: **L66517-07**

Date Sampled: 06/15/21 12:00

Date Received: 06/16/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								06/25/21 11:57	md
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/23/21 14:23	emh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	0.187	B		mg/L	0.05	0.25	06/21/21 19:30	kja
Antimony, dissolved	M200.8 ICP-MS	1	0.00301			mg/L	0.0004	0.002	06/30/21 10:47	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00436			mg/L	0.0002	0.001	06/30/21 10:47	mfm
Barium, dissolved	M200.7 ICP	1	0.0365			mg/L	0.007	0.035	06/21/21 19:30	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	06/30/21 10:47	mfm
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	06/21/21 19:30	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000421			mg/L	0.00005	0.00025	06/30/21 10:47	mfm
Calcium, dissolved	M200.7 ICP	1	35.0		*	mg/L	0.1	0.5	06/21/21 19:30	kja
Chromium, dissolved	M200.8 ICP-MS	1	0.00069	B		mg/L	0.0005	0.002	06/30/21 10:47	mfm
Copper, dissolved	M200.8 ICP-MS	1	0.00276			mg/L	0.0008	0.002	06/30/21 10:47	mfm
Iron, dissolved	M200.7 ICP	1	0.416			mg/L	0.06	0.15	06/21/21 19:30	kja
Lead, dissolved	M200.8 ICP-MS	1	0.0278			mg/L	0.0001	0.0005	06/30/21 10:47	mfm
Magnesium, dissolved	M200.7 ICP	1	1.73			mg/L	0.2	1	06/21/21 19:30	kja
Manganese, dissolved	M200.7 ICP	1	0.600			mg/L	0.01	0.05	06/21/21 19:30	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	06/23/21 11:58	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00225			mg/L	0.0002	0.0005	06/30/21 10:47	mfm
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/21/21 19:30	kja
Potassium, dissolved	M200.7 ICP	1	0.48	B		mg/L	0.2	1	06/21/21 19:30	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00031			mg/L	0.0001	0.00025	06/30/21 10:47	mfm
Silica, dissolved	M200.7 ICP	1	6.4			mg/L	0.2	1	06/21/21 19:30	kja
Silver, dissolved	M200.8 ICP-MS	1	0.00028	B		mg/L	0.0001	0.0005	06/30/21 10:47	mfm
Sodium, dissolved	M200.7 ICP	1	3.78			mg/L	0.2	1	06/21/21 19:30	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	06/30/21 10:47	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.00019	B		mg/L	0.0001	0.0005	06/30/21 10:47	mfm
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	06/21/21 19:30	kja
Zinc, dissolved	M200.7 ICP	1	0.155			mg/L	0.02	0.05	06/21/21 19:30	kja

Ouray Silver Mines

Project ID:

Sample ID: UG-2

ACZ Sample ID: **L66517-07**

Date Sampled: 06/15/21 12:00

Date Received: 06/16/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	45.0			mg/L	2	20	06/18/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/18/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	06/18/21 0:00	eep
Total Alkalinity		1	45.0			mg/L	2	20	06/18/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			7.3			%			07/08/21 0:00	calc
Sum of Anions			1.9			meq/L			07/08/21 0:00	calc
Sum of Cations			2.2			meq/L			07/08/21 0:00	calc
Chloride	SM4500Cl-E	1	0.64	B	*	mg/L	0.5	2	06/25/21 13:32	wtc
Conductivity @25C	SM2510B	1	202			umhos/cm	1	10	06/18/21 2:39	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U		mg/L	0.003	0.01	06/26/21 23:00	pjb
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	06/23/21 15:06	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		95			mg/L	0.2	5	07/08/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.718			mg/L	0.02	0.1	06/26/21 2:13	pjb
pH (lab)	SM4500H+ B									
pH		1	7.9	H		units	0.1	0.1	06/18/21 0:00	eep
pH measured at		1	19.7			C	0.1	0.1	06/18/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	06/26/21 1:08	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	124			mg/L	20	40	06/18/21 15:37	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	8.0	B	*	mg/L	5	20	06/18/21 16:01	cgm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	45.2		*	mg/L	5	25	07/06/21 11:40	wtc
TDS (calculated)	Calculation		124			mg/L			07/08/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.00						07/08/21 0:00	calc



Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L66517**

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
WG521319													
WG521319PBW1	PBW	06/17/21 19:41				U	mg/L		-20	20			
WG521319LCSW3	LCSW	06/17/21 19:59	WC210604-7	820.0001		780	mg/L	95	90	110			
WG521319LCSW6	LCSW	06/17/21 23:13	WC210604-7	820.0001		781.7	mg/L	95	90	110			
WG521319PBW2	PBW	06/17/21 23:21				U	mg/L		-20	20			
L66517-06DUP	DUP	06/18/21 2:04			39.9	39.9	mg/L				0	20	
WG521319LCSW9	LCSW	06/18/21 2:24	WC210604-7	820.0001		816.9	mg/L	100	90	110			
WG521319PBW3	PBW	06/18/21 2:31				U	mg/L		-20	20			
L66535-05DUP	DUP	06/18/21 3:53			122	121.5	mg/L				0	20	
WG521319LCSW12	LCSW	06/18/21 5:34	WC210604-7	820.0001		802.9	mg/L	98	90	110			
WG521319PBW4	PBW	06/18/21 5:40				U	mg/L		-20	20			
WG521319LCSW15	LCSW	06/18/21 8:58	WC210604-7	820.0001		793.7	mg/L	97	90	110			

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521501													
WG521501ICV	ICV	06/21/21 18:19	II210608-1	2		1.952	mg/L	98	95	105			
WG521501ICB	ICB	06/21/21 18:25				U	mg/L		-0.15	0.15			
WG521501LFB	LFB	06/21/21 18:37	II210614-2	1.0013		.968	mg/L	97	85	115			
L66515-05AS	AS	06/21/21 18:59	II210614-2	1.0013	U	.987	mg/L	99	85	115			
L66515-05ASD	ASD	06/21/21 19:02	II210614-2	1.0013	U	.993	mg/L	99	85	115	1	20	
L66527-04AS	AS	06/21/21 19:43	II210614-2	1.0013	U	1.012	mg/L	101	85	115			
L66527-04ASD	ASD	06/21/21 19:52	II210614-2	1.0013	U	1.062	mg/L	106	85	115	5	20	

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521971													
WG521971ICV	ICV	06/25/21 16:24	MS210503-1	.0201		.01821	mg/L	91	90	110			
WG521971ICB	ICB	06/25/21 16:26				U	mg/L		-0.00088	0.00088			
WG521971LFB	LFB	06/25/21 16:27	MS210610-2	.01		.00972	mg/L	97	85	115			
L66546-07AS	AS	06/25/21 17:16	MS210610-2	.02	U	.01783	mg/L	89	70	130			
L66546-07ASD	ASD	06/25/21 17:18	MS210610-2	.02	U	.01831	mg/L	92	70	130	3	20	
WG522229													
WG522229ICV	ICV	06/30/21 10:27	MS210503-1	.0201		.02135	mg/L	106	90	110			
WG522229ICB	ICB	06/30/21 10:29				U	mg/L		-0.00088	0.00088			
WG522229LFB	LFB	06/30/21 10:30	MS210610-2	.01		.00882	mg/L	88	85	115			
L66527-03AS	AS	06/30/21 11:01	MS210610-2	.01	.00178	.01065	mg/L	89	70	130			
L66527-03ASD	ASD	06/30/21 11:03	MS210610-2	.01	.00178	.01093	mg/L	92	70	130	3	20	
L66464-02AS	AS	06/30/21 11:17	MS210610-2	.05	U	.04663	mg/L	93	70	130			
L66464-02ASD	ASD	06/30/21 11:19	MS210610-2	.05	U	.04704	mg/L	94	70	130	1	20	
WG522457													
WG522457ICV	ICV	07/02/21 17:52	MS210630-2	.0201		.02037	mg/L	101	90	110			
WG522457ICB	ICB	07/02/21 17:54				U	mg/L		-0.00088	0.00088			
WG522457LFB	LFB	07/02/21 17:56	MS210702-2	.01		.00965	mg/L	97	85	115			
L66632-01AS	AS	07/02/21 18:07	MS210702-2	.01	.00095	.00946	mg/L	85	70	130			
L66632-01ASD	ASD	07/02/21 18:09	MS210702-2	.01	.00095	.00956	mg/L	86	70	130	1	20	

Ouray Silver Mines

ACZ Project ID: **L66517**

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.

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521971													
WG521971ICV	ICV	06/25/21 16:24	MS210503-1	.05		.05024	mg/L	100	90	110			
WG521971ICB	ICB	06/25/21 16:26				U	mg/L		-0.00044	0.00044			
WG521971LFB	LFB	06/25/21 16:27	MS210610-2	.05005		.04799	mg/L	96	85	115			
L66546-07AS	AS	06/25/21 17:16	MS210610-2	.1001	U	.10222	mg/L	102	70	130			
L66546-07ASD	ASD	06/25/21 17:18	MS210610-2	.1001	U	.1013	mg/L	101	70	130	1	20	
WG522229													
WG522229ICV	ICV	06/30/21 10:27	MS210503-1	.05		.04975	mg/L	100	90	110			
WG522229ICB	ICB	06/30/21 10:29				U	mg/L		-0.00044	0.00044			
WG522229LFB	LFB	06/30/21 10:30	MS210610-2	.05005		.04856	mg/L	97	85	115			
L66527-03AS	AS	06/30/21 11:01	MS210610-2	.05005	.0128	.06441	mg/L	103	70	130			
L66527-03ASD	ASD	06/30/21 11:03	MS210610-2	.05005	.0128	.05762	mg/L	90	70	130	11	20	
L66464-02AS	AS	06/30/21 11:17	MS210610-2	.25025	U	.23683	mg/L	95	70	130			
L66464-02ASD	ASD	06/30/21 11:19	MS210610-2	.25025	U	.23276	mg/L	93	70	130	2	20	

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521501													
WG521501ICV	ICV	06/21/21 18:19	II210608-1	2		1.9515	mg/L	98	95	105			
WG521501ICB	ICB	06/21/21 18:25				U	mg/L		-0.021	0.021			
WG521501LFB	LFB	06/21/21 18:37	II210614-2	.5		.4791	mg/L	96	85	115			
L66515-05AS	AS	06/21/21 18:59	II210614-2	.5	U	.4788	mg/L	96	85	115			
L66515-05ASD	ASD	06/21/21 19:02	II210614-2	.5	U	.4795	mg/L	96	85	115	0	20	
L66527-04AS	AS	06/21/21 19:43	II210614-2	.5	.0262	.5097	mg/L	97	85	115			
L66527-04ASD	ASD	06/21/21 19:52	II210614-2	.5	.0262	.5506	mg/L	105	85	115	8	20	

Beryllium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521971													
WG521971ICV	ICV	06/25/21 16:24	MS210503-1	.05		.045881	mg/L	92	90	110			
WG521971ICB	ICB	06/25/21 16:26				.000114	mg/L		-0.000176	0.000176			
WG521971LFB	LFB	06/25/21 16:27	MS210610-2	.05005		.047532	mg/L	95	85	115			
L66546-07AS	AS	06/25/21 17:16	MS210610-2	.1001	.00115	.099584	mg/L	98	70	130			
L66546-07ASD	ASD	06/25/21 17:18	MS210610-2	.1001	.00115	.100809	mg/L	100	70	130	1	20	
WG522229													
WG522229ICV	ICV	06/30/21 10:27	MS210503-1	.05		.04642	mg/L	93	90	110			
WG522229ICB	ICB	06/30/21 10:29				U	mg/L		-0.000176	0.000176			
WG522229LFB	LFB	06/30/21 10:30	MS210610-2	.05005		.047411	mg/L	95	85	115			
L66527-03AS	AS	06/30/21 11:01	MS210610-2	.05005	U	.04349	mg/L	87	70	130			
L66527-03ASD	ASD	06/30/21 11:03	MS210610-2	.05005	U	.035608	mg/L	71	70	130	20	20	
L66464-02AS	AS	06/30/21 11:17	MS210610-2	.25025	U	.219561	mg/L	88	70	130			
L66464-02ASD	ASD	06/30/21 11:19	MS210610-2	.25025	U	.21682	mg/L	87	70	130	1	20	

Ouray Silver Mines

ACZ Project ID: **L66517**

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.

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521501													
WG521501ICV	ICV	06/21/21 18:19	II210608-1	2		1.97	mg/L	99	95	105			
WG521501ICB	ICB	06/21/21 18:25				U	mg/L		-0.09	0.09			
WG521501LFB	LFB	06/21/21 18:37	II210614-2	.5005		.505	mg/L	101	85	115			
L66515-05AS	AS	06/21/21 18:59	II210614-2	.5005	U	.516	mg/L	103	85	115			
L66515-05ASD	ASD	06/21/21 19:02	II210614-2	.5005	U	.53	mg/L	106	85	115	3	20	
L66527-04AS	AS	06/21/21 19:43	II210614-2	.5005	.264	.754	mg/L	98	85	115			
L66527-04ASD	ASD	06/21/21 19:52	II210614-2	.5005	.264	.799	mg/L	107	85	115	6	20	

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521971													
WG521971ICV	ICV	06/25/21 16:24	MS210503-1	.05		.049654	mg/L	99	90	110			
WG521971ICB	ICB	06/25/21 16:26				U	mg/L		-0.00011	0.00011			
WG521971LFB	LFB	06/25/21 16:27	MS210610-2	.05005		.047072	mg/L	94	85	115			
L66546-07AS	AS	06/25/21 17:16	MS210610-2	.1001	.0863	.181752	mg/L	95	70	130			
L66546-07ASD	ASD	06/25/21 17:18	MS210610-2	.1001	.0863	.183031	mg/L	97	70	130	1	20	
WG522229													
WG522229ICV	ICV	06/30/21 10:27	MS210503-1	.05		.049785	mg/L	100	90	110			
WG522229ICB	ICB	06/30/21 10:29				U	mg/L		-0.00011	0.00011			
WG522229LFB	LFB	06/30/21 10:30	MS210610-2	.05005		.046827	mg/L	94	85	115			
L66527-03AS	AS	06/30/21 11:01	MS210610-2	.05005	U	.049439	mg/L	99	70	130			
L66527-03ASD	ASD	06/30/21 11:03	MS210610-2	.05005	U	.040753	mg/L	81	70	130	19	20	
L66464-02AS	AS	06/30/21 11:17	MS210610-2	.25025	U	.231815	mg/L	93	70	130			
L66464-02ASD	ASD	06/30/21 11:19	MS210610-2	.25025	U	.228882	mg/L	91	70	130	1	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521501													
WG521501ICV	ICV	06/21/21 18:19	II210608-1	100		99.08	mg/L	99	95	105			
WG521501ICB	ICB	06/21/21 18:25				U	mg/L		-0.3	0.3			
WG521501LFB	LFB	06/21/21 18:37	II210614-2	67.98753		67.32	mg/L	99	85	115			
L66515-05AS	AS	06/21/21 18:59	II210614-2	67.98753	.95	70.18	mg/L	102	85	115			
L66515-05ASD	ASD	06/21/21 19:02	II210614-2	67.98753	.95	70.8	mg/L	103	85	115	1	20	
L66527-04AS	AS	06/21/21 19:43	II210614-2	67.98753	484	514.3	mg/L	45	85	115			M3
L66527-04ASD	ASD	06/21/21 19:52	II210614-2	67.98753	484	548.2	mg/L	94	85	115	6	20	

Chloride

SM4500Cl-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521961													
WG521961ICB	ICB	06/25/21 8:32				U	mg/L		-1.5	1.5			
WG521961ICV	ICV	06/25/21 8:32	WI210503-1	54.89		56.51	mg/L	103	90	110			
WG521961LFB1	LFB	06/25/21 13:28	WI200327-3	30.03		30.52	mg/L	102	90	110			
L66517-01DUP	DUP	06/25/21 13:30			U	U	mg/L				0	20	RA
L66517-02AS	AS	06/25/21 13:30	WI200327-3	30.03	.67	32.13	mg/L	105	90	110			
WG521961LFB2	LFB	06/25/21 13:32	WI200327-3	30.03		31.88	mg/L	106	90	110			

Ouray Silver Mines

ACZ Project ID: **L66517**

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
WG521971													
WG521971ICV	ICV	06/25/21 16:24	MS210503-1	.05		.05029	mg/L	101	90	110			
WG521971ICB	ICB	06/25/21 16:26				U	mg/L		-0.0011	0.0011			
WG521971LFB	LFB	06/25/21 16:27	MS210610-2	.05		.04767	mg/L	95	85	115			
L66546-07AS	AS	06/25/21 17:16	MS210610-2	.1	U	.09818	mg/L	98	70	130			
L66546-07ASD	ASD	06/25/21 17:18	MS210610-2	.1	U	.09731	mg/L	97	70	130	1	20	
WG522229													
WG522229ICV	ICV	06/30/21 10:27	MS210503-1	.05		.05091	mg/L	102	90	110			
WG522229ICB	ICB	06/30/21 10:29				U	mg/L		-0.0011	0.0011			
WG522229LFB	LFB	06/30/21 10:30	MS210610-2	.05		.04764	mg/L	95	85	115			
L66527-03AS	AS	06/30/21 11:01	MS210610-2	.05	U	.0462	mg/L	92	70	130			
L66527-03ASD	ASD	06/30/21 11:03	MS210610-2	.05	U	.03907	mg/L	78	70	130	17	20	
L66464-02AS	AS	06/30/21 11:17	MS210610-2	.25	U	.22022	mg/L	88	70	130			
L66464-02ASD	ASD	06/30/21 11:19	MS210610-2	.25	U	.21371	mg/L	85	70	130	3	20	

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521319													
WG521319LCSW2	LCSW	06/17/21 19:48	PCN63133	1410		1434	umhos/cm	102	90	110			
WG521319LCSW5	LCSW	06/17/21 23:02	PCN63133	1410		1429	umhos/cm	101	90	110			
L66517-06DUP	DUP	06/18/21 2:04			264	265	umhos/cm				0	20	
WG521319LCSW8	LCSW	06/18/21 2:11	PCN63133	1410		1423	umhos/cm	101	90	110			
L66535-05DUP	DUP	06/18/21 3:53			430	431	umhos/cm				0	20	
WG521319LCSW11	LCSW	06/18/21 5:22	PCN63133	1410		1413	umhos/cm	100	90	110			
WG521319LCSW14	LCSW	06/18/21 8:47	PCN63133	1410		1406	umhos/cm	100	90	110			

Copper, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521971													
WG521971ICV	ICV	06/25/21 16:24	MS210503-1	.05		.05126	mg/L	103	90	110			
WG521971ICB	ICB	06/25/21 16:26				U	mg/L		-0.00176	0.00176			
WG521971LFB	LFB	06/25/21 16:27	MS210610-2	.05		.04812	mg/L	96	85	115			
L66546-07AS	AS	06/25/21 17:16	MS210610-2	.1	.195	.29815	mg/L	103	70	130			
L66546-07ASD	ASD	06/25/21 17:18	MS210610-2	.1	.195	.29676	mg/L	102	70	130	0	20	
WG522229													
WG522229ICV	ICV	06/30/21 10:27	MS210503-1	.05		.05075	mg/L	102	90	110			
WG522229ICB	ICB	06/30/21 10:29				U	mg/L		-0.00176	0.00176			
WG522229LFB	LFB	06/30/21 10:30	MS210610-2	.05		.04776	mg/L	96	85	115			
L66527-03AS	AS	06/30/21 11:01	MS210610-2	.05	U	.04404	mg/L	88	70	130			
L66527-03ASD	ASD	06/30/21 11:03	MS210610-2	.05	U	.03733	mg/L	75	70	130	16	20	
L66464-02AS	AS	06/30/21 11:17	MS210610-2	.25	U	.20819	mg/L	83	70	130			
L66464-02ASD	ASD	06/30/21 11:19	MS210610-2	.25	U	.19977	mg/L	80	70	130	4	20	

Ouray Silver Mines

ACZ Project ID: **L66517**

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.

Cyanide, total

M335.4 - Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522000													
WG522000ICV	ICV	06/26/21 21:48	WI210616-7	.3		.2912	mg/L	97	90	110			
WG522000ICB	ICB	06/26/21 21:49				U	mg/L		-0.003	0.003			
WG522002													
WG521913LRB	LRB	06/26/21 22:53				U	mg/L		-0.003	0.003			
WG521913LFB	LFB	06/26/21 22:53	WI210616-5	.2		.1957	mg/L	98	90	110			
L66577-01DUP	DUP	06/26/21 23:04			.234	.2357	mg/L				1	20	
L66586-02LFM	LFM	06/26/21 23:06	WI210616-5	.2	.0034	.2009	mg/L	99	90	110			

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521694													
WG521694ICV	ICV	06/23/21 10:28	WC210623-1	2.002		2.09	mg/L	104	90	110			
WG521694ICB	ICB	06/23/21 10:33				U	mg/L		-0.3	0.3			
WG521694LFB1	LFB	06/23/21 10:39	WC201221-2	5.015		5.12	mg/L	102	90	110			
WG521694LFB2	LFB	06/23/21 14:01	WC201221-2	5.015		5.16	mg/L	103	90	110			
L66517-01AS	AS	06/23/21 14:13	WC201221-2	5.015	U	5.23	mg/L	104	90	110			
L66517-01ASD	ASD	06/23/21 14:17	WC201221-2	5.015	U	5.19	mg/L	103	90	110	1	20	

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521501													
WG521501ICV	ICV	06/21/21 18:19	II210608-1	2		1.961	mg/L	98	95	105			
WG521501ICB	ICB	06/21/21 18:25				U	mg/L		-0.18	0.18			
WG521501LFB	LFB	06/21/21 18:37	II210614-2	1.0018		1.006	mg/L	100	85	115			
L66515-05AS	AS	06/21/21 18:59	II210614-2	1.0018	U	1.007	mg/L	101	85	115			
L66515-05ASD	ASD	06/21/21 19:02	II210614-2	1.0018	U	1.013	mg/L	101	85	115	1	20	
L66527-04AS	AS	06/21/21 19:43	II210614-2	1.0018	.077	1.074	mg/L	100	85	115			
L66527-04ASD	ASD	06/21/21 19:52	II210614-2	1.0018	.077	1.141	mg/L	106	85	115	6	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521971													
WG521971ICV	ICV	06/25/21 16:24	MS210503-1	.05		.04973	mg/L	99	90	110			
WG521971ICB	ICB	06/25/21 16:26				U	mg/L		-0.00022	0.00022			
WG521971LFB	LFB	06/25/21 16:27	MS210610-2	.05005		.04737	mg/L	95	85	115			
L66546-07AS	AS	06/25/21 17:16	MS210610-2	.1001	.00082	.10017	mg/L	99	70	130			
L66546-07ASD	ASD	06/25/21 17:18	MS210610-2	.1001	.00082	.10024	mg/L	99	70	130	0	20	
WG522229													
WG522229ICV	ICV	06/30/21 10:27	MS210503-1	.05		.05194	mg/L	104	90	110			
WG522229ICB	ICB	06/30/21 10:29				U	mg/L		-0.00022	0.00022			
WG522229LFB	LFB	06/30/21 10:30	MS210610-2	.05005		.04865	mg/L	97	85	115			
L66527-03AS	AS	06/30/21 11:01	MS210610-2	.05005	U	.05147	mg/L	103	70	130			
L66527-03ASD	ASD	06/30/21 11:03	MS210610-2	.05005	U	.04267	mg/L	85	70	130	19	20	
L66464-02AS	AS	06/30/21 11:17	MS210610-2	.25025	U	.25009	mg/L	100	70	130			
L66464-02ASD	ASD	06/30/21 11:19	MS210610-2	.25025	U	.25109	mg/L	100	70	130	0	20	

Ouray Silver Mines

ACZ Project ID: **L66517**

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.

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521501													
WG521501ICV	ICV	06/21/21 18:19	II210608-1	100		97.54	mg/L	98	95	105			
WG521501ICB	ICB	06/21/21 18:25				U	mg/L		-0.6	0.6			
WG521501LFB	LFB	06/21/21 18:37	II210614-2	50.00302		48.04	mg/L	96	85	115			
L66515-05AS	AS	06/21/21 18:59	II210614-2	50.00302	U	50.5	mg/L	101	85	115			
L66515-05ASD	ASD	06/21/21 19:02	II210614-2	50.00302	U	51.29	mg/L	103	85	115	2	20	
L66527-04AS	AS	06/21/21 19:43	II210614-2	50.00302	28.3	76.23	mg/L	96	85	115			
L66527-04ASD	ASD	06/21/21 19:52	II210614-2	50.00302	28.3	79.45	mg/L	102	85	115	4	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521501													
WG521501ICV	ICV	06/21/21 18:19	II210608-1	2		1.924	mg/L	96	95	105			
WG521501ICB	ICB	06/21/21 18:25				U	mg/L		-0.03	0.03			
WG521501LFB	LFB	06/21/21 18:37	II210614-2	.5005		.477	mg/L	95	85	115			
L66515-05AS	AS	06/21/21 18:59	II210614-2	.5005	.058	.527	mg/L	94	85	115			
L66515-05ASD	ASD	06/21/21 19:02	II210614-2	.5005	.058	.527	mg/L	94	85	115	0	20	
L66527-04AS	AS	06/21/21 19:43	II210614-2	.5005	.645	1.088	mg/L	89	85	115			
L66527-04ASD	ASD	06/21/21 19:52	II210614-2	.5005	.645	1.151	mg/L	101	85	115	6	20	

Mercury, dissolved

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521581													
WG521581ICV	ICV	06/23/21 10:03	HG210601-3	.00501		.00507	mg/L	101	95	105			
WG521581ICB	ICB	06/23/21 10:04				U	mg/L		-0.0002	0.0002			
WG521581LRB	LRB	06/23/21 10:06				U	mg/L		-0.00044	0.00044			
WG521581LFB	LFB	06/23/21 10:07	HG210601-6	.002002		.00176	mg/L	88	85	115			
L66515-03LFM	LFM	06/23/21 10:23	HG210601-6	.002002	U	.00174	mg/L	87	85	115			
L66515-03LFMD	LFMD	06/23/21 10:24	HG210601-6	.002002	U	.00174	mg/L	87	85	115	0	20	
WG521658													
WG521658LRB	LRB	06/23/21 11:55				U	mg/L		-0.00044	0.00044			
L66517-07LFM	LFM	06/23/21 11:59	HG210601-6	.002002	U	.00175	mg/L	87	85	115			
L66517-07LFMD	LFMD	06/23/21 12:00	HG210601-6	.002002	U	.00182	mg/L	91	85	115	4	20	
WG521658LFB	LFB	06/23/21 14:15	HG210601-6	.002002		.00185	mg/L	92	85	115			

Ouray Silver Mines

ACZ Project ID: **L66517**

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.

Molybdenum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521971													
WG521971ICV	ICV	06/25/21 16:24	MS210503-1	.01992		.01955	mg/L	98	90	110			
WG521971ICB	ICB	06/25/21 16:26				U	mg/L		-0.00044	0.00044			
WG521971LFB	LFB	06/25/21 16:27	MS210610-2	.0501		.04859	mg/L	97	85	115			
L66546-07AS	AS	06/25/21 17:16	MS210610-2	.1002	U	.09905	mg/L	99	70	130			
L66546-07ASD	ASD	06/25/21 17:18	MS210610-2	.1002	U	.09976	mg/L	100	70	130	1	20	
WG522229													
WG522229ICV	ICV	06/30/21 10:27	MS210503-1	.01992		.01953	mg/L	98	90	110			
WG522229ICB	ICB	06/30/21 10:29				U	mg/L		-0.00044	0.00044			
WG522229LFB	LFB	06/30/21 10:30	MS210610-2	.0501		.04739	mg/L	95	85	115			
L66527-03AS	AS	06/30/21 11:01	MS210610-2	.0501	.00523	.05714	mg/L	104	70	130			
L66527-03ASD	ASD	06/30/21 11:03	MS210610-2	.0501	.00523	.04797	mg/L	85	70	130	17	20	
L66464-02AS	AS	06/30/21 11:17	MS210610-2	.2505	.198	.47555	mg/L	111	70	130			
L66464-02ASD	ASD	06/30/21 11:19	MS210610-2	.2505	.198	.46106	mg/L	105	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
WG521501													
WG521501ICV	ICV	06/21/21 18:19	II210608-1	2		1.9262	mg/L	96	95	105			
WG521501ICB	ICB	06/21/21 18:25				U	mg/L		-0.024	0.024			
WG521501LFB	LFB	06/21/21 18:37	II210614-2	.5		.4822	mg/L	96	85	115			
L66515-05AS	AS	06/21/21 18:59	II210614-2	.5	U	.4943	mg/L	99	85	115			
L66515-05ASD	ASD	06/21/21 19:02	II210614-2	.5	U	.5018	mg/L	100	85	115	2	20	
L66527-04AS	AS	06/21/21 19:43	II210614-2	.5	U	.4796	mg/L	96	85	115			
L66527-04ASD	ASD	06/21/21 19:52	II210614-2	.5	U	.5061	mg/L	101	85	115	5	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
WG521980													
WG521980ICV	ICV	06/25/21 23:01	WI210603-7	2.416		2.418	mg/L	100	90	110			
WG521980ICB	ICB	06/25/21 23:02				U	mg/L		-0.02	0.02			
WG521986													
WG521986LFB	LFB	06/26/21 1:34	WI210331-13	2		2.033	mg/L	102	90	110			
L66515-03AS	AS	06/26/21 1:56	WI210331-13	2	.681	2.785	mg/L	105	90	110			
L66515-04DUP	DUP	06/26/21 1:59			1.33	1.332	mg/L				0	20	

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521319													
WG521319LCSW1	LCSW	06/17/21 19:46	PCN61687	6		6	units	100	5.9	6.1			
WG521319LCSW4	LCSW	06/17/21 23:01	PCN61687	6		6	units	100	5.9	6.1			
L66517-06DUP	DUP	06/18/21 2:04			8.1	8	units				1	20	
WG521319LCSW7	LCSW	06/18/21 2:09	PCN61687	6		6	units	100	5.9	6.1			
L66535-05DUP	DUP	06/18/21 3:53			8.3	8.3	units				0	20	
WG521319LCSW10	LCSW	06/18/21 5:21	PCN61687	6		6	units	100	5.9	6.1			
WG521319LCSW13	LCSW	06/18/21 8:45	PCN61687	6		6	units	100	5.9	6.1			

Ouray Silver Mines

ACZ Project ID: **L66517**

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.

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

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521983													
WG521983ICV	ICV	06/26/21 0:34	WI210603-3	.65228		.691	mg/L	106	90	110			
WG521983ICB	ICB	06/26/21 0:36				U	mg/L		-0.01	0.01			
WG521701LRB	LRB	06/26/21 0:37				U	mg/L		-0.01	0.01			
WG521701LFB	LFB	06/26/21 0:39	WI210617-5	.5		.492	mg/L	98	90	110			
L66515-05LFM	LFM	06/26/21 0:57	WI210617-5	.5	U	.471	mg/L	94	90	110			
L66517-01DUP	DUP	06/26/21 0:59			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
WG521501													
WG521501ICV	ICV	06/21/21 18:19	II210608-1	20		19.58	mg/L	98	95	105			
WG521501ICB	ICB	06/21/21 18:25				U	mg/L		-0.6	0.6			
WG521501LFB	LFB	06/21/21 18:37	II210614-2	100.0157		96.39	mg/L	96	85	115			
L66515-05AS	AS	06/21/21 18:59	II210614-2	100.0157	4.93	102.6	mg/L	98	85	115			
L66515-05ASD	ASD	06/21/21 19:02	II210614-2	100.0157	4.93	103.3	mg/L	98	85	115	1	20	
L66527-04AS	AS	06/21/21 19:43	II210614-2	100.0157	4.77	105.2	mg/L	100	85	115			
L66527-04ASD	ASD	06/21/21 19:52	II210614-2	100.0157	4.77	109.6	mg/L	105	85	115	4	20	

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521408													
WG521408PBW	PBW	06/18/21 15:00				U	mg/L		-20	20			
WG521408LCSW	LCSW	06/18/21 15:01	PCN63552	1000		972	mg/L	97	80	120			
L66524-02DUP	DUP	06/18/21 15:44			942	936	mg/L				1	10	

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

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521410													
WG521410PBW	PBW	06/18/21 15:20				U	mg/L		-2	2			
WG521410LCSW	LCSW	06/18/21 15:22	PCN63552	100		95	mg/L	95	80	120			
L66517-03DUP	DUP	06/18/21 15:51			12	13	mg/L				8	10	RA
L66593-03DUP	DUP	06/18/21 16:20			U	U	mg/L				0	10	RA

Ouray Silver Mines

ACZ Project ID: **L66517**

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
WG521971													
WG521971ICV	ICV	06/25/21 16:24	MS210503-1	.05		.04892	mg/L	98	90	110			
WG521971ICB	ICB	06/25/21 16:26				.00011	mg/L		-0.00022	0.00022			
WG521971LFB	LFB	06/25/21 16:27	MS210610-2	.05		.04777	mg/L	96	85	115			
L66546-07AS	AS	06/25/21 17:16	MS210610-2	.1	.00837	.11324	mg/L	105	70	130			
L66546-07ASD	ASD	06/25/21 17:18	MS210610-2	.1	.00837	.11275	mg/L	104	70	130	0	20	
WG522229													
WG522229ICV	ICV	06/30/21 10:27	MS210503-1	.05		.04975	mg/L	100	90	110			
WG522229ICB	ICB	06/30/21 10:29				U	mg/L		-0.00022	0.00022			
WG522229LFB	LFB	06/30/21 10:30	MS210610-2	.05		.04825	mg/L	97	85	115			
L66527-03AS	AS	06/30/21 11:01	MS210610-2	.05	.00376	.05803	mg/L	109	70	130			
L66527-03ASD	ASD	06/30/21 11:03	MS210610-2	.05	.00376	.049	mg/L	90	70	130	17	20	
L66464-02AS	AS	06/30/21 11:17	MS210610-2	.25	U	.24347	mg/L	97	70	130			
L66464-02ASD	ASD	06/30/21 11:19	MS210610-2	.25	U	.23915	mg/L	96	70	130	2	20	

Silica, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521501													
WG521501ICV	ICV	06/21/21 18:19	II210608-1	42.8		42.05	mg/L	98	95	105			
WG521501ICB	ICB	06/21/21 18:25				U	mg/L		-0.6	0.6			
WG521501LFB	LFB	06/21/21 18:37	II210614-2	21.415		21.08	mg/L	98	85	115			
L66515-05AS	AS	06/21/21 18:59	II210614-2	21.415	U	21.66	mg/L	101	85	115			
L66515-05ASD	ASD	06/21/21 19:02	II210614-2	21.415	U	21.75	mg/L	102	85	115	0	20	
L66527-04AS	AS	06/21/21 19:43	II210614-2	21.415	31.3	51.47	mg/L	94	85	115			
L66527-04ASD	ASD	06/21/21 19:52	II210614-2	21.415	31.3	54.93	mg/L	110	85	115	7	20	

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521971													
WG521971ICV	ICV	06/25/21 16:24	MS210503-1	.02		.01985	mg/L	99	90	110			
WG521971ICB	ICB	06/25/21 16:26				U	mg/L		-0.00022	0.00022			
WG521971LFB	LFB	06/25/21 16:27	MS210610-2	.01002		.0106	mg/L	106	85	115			
L66546-07AS	AS	06/25/21 17:16	MS210610-2	.02004	U	.02018	mg/L	101	70	130			
L66546-07ASD	ASD	06/25/21 17:18	MS210610-2	.02004	U	.02049	mg/L	102	70	130	2	20	
WG522229													
WG522229ICV	ICV	06/30/21 10:27	MS210503-1	.02		.02046	mg/L	102	90	110			
WG522229ICB	ICB	06/30/21 10:29				U	mg/L		-0.00022	0.00022			
WG522229LFB	LFB	06/30/21 10:30	MS210610-2	.01002		.01006	mg/L	100	85	115			
L66527-03AS	AS	06/30/21 11:01	MS210610-2	.01002	U	.0096	mg/L	96	70	130			
L66527-03ASD	ASD	06/30/21 11:03	MS210610-2	.01002	U	.00957	mg/L	96	70	130	0	20	
L66464-02AS	AS	06/30/21 11:17	MS210610-2	.0501	U	.04278	mg/L	85	70	130			
L66464-02ASD	ASD	06/30/21 11:19	MS210610-2	.0501	U	.04145	mg/L	83	70	130	3	20	

Ouray Silver Mines

ACZ Project ID: **L66517**

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.

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521501													
WG521501ICV	ICV	06/21/21 18:19	II210608-1	100		99.11	mg/L	99	95	105			
WG521501ICB	ICB	06/21/21 18:25				U	mg/L		-0.6	0.6			
WG521501LFB	LFB	06/21/21 18:37	II210614-2	100.0605		97.19	mg/L	97	85	115			
L66515-05AS	AS	06/21/21 18:59	II210614-2	100.0605	5.25	101	mg/L	96	85	115			
L66515-05ASD	ASD	06/21/21 19:02	II210614-2	100.0605	5.25	101.8	mg/L	96	85	115	1	20	
L66527-04AS	AS	06/21/21 19:43	II210614-2	100.0605	96.4	188.7	mg/L	92	85	115			
L66527-04ASD	ASD	06/21/21 19:52	II210614-2	100.0605	96.4	196.7	mg/L	100	85	115	4	20	

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522540													
WG522540ICB	ICB	07/06/21 7:59				U	mg/L		-3	3			
WG522540ICV	ICV	07/06/21 7:59	WI210629-1	20.46		20.2	mg/L	99	90	110			
WG522540LFB	LFB	07/06/21 11:10	WI210105-3	10		10.1	mg/L	101	90	110			
L66518-02AS	AS	07/06/21 12:22	SO4TURB60X	9.99	924	884.9	mg/L	-391	90	110			M3
L66520-01DUP	DUP	07/06/21 12:23			74100	75162.2	mg/L				1	20	

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521971													
WG521971ICV	ICV	06/25/21 16:24	MS210503-1	.05		.05002	mg/L	100	90	110			
WG521971ICB	ICB	06/25/21 16:26				U	mg/L		-0.00022	0.00022			
WG521971LFB	LFB	06/25/21 16:27	MS210610-2	.05		.04711	mg/L	94	85	115			
L66546-07AS	AS	06/25/21 17:16	MS210610-2	.1	U	.0992	mg/L	99	70	130			
L66546-07ASD	ASD	06/25/21 17:18	MS210610-2	.1	U	.09915	mg/L	99	70	130	0	20	
WG522229													
WG522229ICV	ICV	06/30/21 10:27	MS210503-1	.05		.05119	mg/L	102	90	110			
WG522229ICB	ICB	06/30/21 10:29				U	mg/L		-0.00022	0.00022			
WG522229LFB	LFB	06/30/21 10:30	MS210610-2	.05		.04694	mg/L	94	85	115			
L66527-03AS	AS	06/30/21 11:01	MS210610-2	.05	U	.05179	mg/L	104	70	130			
L66527-03ASD	ASD	06/30/21 11:03	MS210610-2	.05	U	.04307	mg/L	86	70	130	18	20	
L66464-02AS	AS	06/30/21 11:17	MS210610-2	.25	U	.25719	mg/L	103	70	130			
L66464-02ASD	ASD	06/30/21 11:19	MS210610-2	.25	U	.25548	mg/L	102	70	130	1	20	

Ouray Silver Mines

ACZ Project ID: **L66517**

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.

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521971													
WG521971ICV	ICV	06/25/21 16:24	MS210503-1	.05		.04904	mg/L	98	90	110			
WG521971ICB	ICB	06/25/21 16:26				U	mg/L		-0.00022	0.00022			
WG521971LFB	LFB	06/25/21 16:27	MS210610-2	.05		.04646	mg/L	93	85	115			
L66546-07AS	AS	06/25/21 17:16	MS210610-2	.1	.00368	.10342	mg/L	100	70	130			
L66546-07ASD	ASD	06/25/21 17:18	MS210610-2	.1	.00368	.10364	mg/L	100	70	130	0	20	
WG522229													
WG522229ICV	ICV	06/30/21 10:27	MS210503-1	.05		.05028	mg/L	101	90	110			
WG522229ICB	ICB	06/30/21 10:29				U	mg/L		-0.00022	0.00022			
WG522229LFB	LFB	06/30/21 10:30	MS210610-2	.05		.04641	mg/L	93	85	115			
L66527-03AS	AS	06/30/21 11:01	MS210610-2	.05	.00056	.05305	mg/L	105	70	130			
L66527-03ASD	ASD	06/30/21 11:03	MS210610-2	.05	.00056	.04422	mg/L	87	70	130	18	20	
L66464-02AS	AS	06/30/21 11:17	MS210610-2	.25	.00548	.26482	mg/L	104	70	130			
L66464-02ASD	ASD	06/30/21 11:19	MS210610-2	.25	.00548	.26175	mg/L	103	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
WG521501													
WG521501ICV	ICV	06/21/21 18:19	II210608-1	2		1.932	mg/L	97	95	105			
WG521501ICB	ICB	06/21/21 18:25				.0075	mg/L		-0.015	0.015			
WG521501LFB	LFB	06/21/21 18:37	II210614-2	.5005		.4808	mg/L	96	85	115			
L66515-05AS	AS	06/21/21 18:59	II210614-2	.5005	U	.4974	mg/L	99	85	115			
L66515-05ASD	ASD	06/21/21 19:02	II210614-2	.5005	U	.499	mg/L	100	85	115	0	20	
L66527-04AS	AS	06/21/21 19:43	II210614-2	.5005	U	.4914	mg/L	98	85	115			
L66527-04ASD	ASD	06/21/21 19:52	II210614-2	.5005	U	.518	mg/L	103	85	115	5	20	

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521501													
WG521501ICV	ICV	06/21/21 18:19	II210608-1	2		1.915	mg/L	96	95	105			
WG521501ICB	ICB	06/21/21 18:25				U	mg/L		-0.06	0.06			
WG521501LFB	LFB	06/21/21 18:37	II210614-2	.50075		.481	mg/L	96	85	115			
L66515-05AS	AS	06/21/21 18:59	II210614-2	.50075	.129	.59	mg/L	93	85	115			
L66515-05ASD	ASD	06/21/21 19:02	II210614-2	.50075	.129	.597	mg/L	94	85	115	1	20	
L66527-04AS	AS	06/21/21 19:43	II210614-2	.50075	.053	.537	mg/L	97	85	115			
L66527-04ASD	ASD	06/21/21 19:52	II210614-2	.50075	.053	.555	mg/L	100	85	115	3	20	

Ouray Silver Mines

ACZ Project ID: **L66517**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66517-01	WG521961	Chloride	SM4500CI-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).
	WG521983	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).
	WG521408	Residue, Filterable (TDS) @180C	SM2540C	Z3	Sample volume yielded a residue less than 2.5 mg
	WG521410	Residue, Non-Filterable (TSS) @105C	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
	WG522540	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.
L66517-02	WG521961	Chloride	SM4500CI-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).
	WG521983	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).
	WG521410	Residue, Non-Filterable (TSS) @105C	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
	WG522540	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.
L66517-03	WG521961	Chloride	SM4500CI-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).
	WG521983	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).
	WG521410	Residue, Non-Filterable (TSS) @105C	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
	WG522540	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.
L66517-04	WG521961	Chloride	SM4500CI-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).
	WG521983	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).
	WG521410	Residue, Non-Filterable (TSS) @105C	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
	WG522540	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.

Ouray Silver Mines

ACZ Project ID: **L66517**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66517-05	WG521501	Calcium, dissolved	M200.7 ICP	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.
	WG521961	Chloride	SM4500CI-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).
	WG521983	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).
	WG521410	Residue, Non-Filterable (TSS) @105C	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).
	WG522540	Sulfate	SM2540D D516-02/-07/-11 - TURBIDIMETRIC	Z3 M3	Sample volume yielded a residue less than 2.5 mg 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.
L66517-06	WG521501	Calcium, dissolved	M200.7 ICP	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.
	WG521961	Chloride	SM4500CI-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).
	WG521983	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).
	WG521410	Residue, Non-Filterable (TSS) @105C	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).
	WG522540	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.
L66517-07	WG521501	Calcium, dissolved	M200.7 ICP	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.
	WG521961	Chloride	SM4500CI-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).
	WG521983	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).
	WG521410	Residue, Non-Filterable (TSS) @105C	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).
	WG522540	Sulfate	SM2540D D516-02/-07/-11 - TURBIDIMETRIC	Z3 M3	Sample volume yielded a residue less than 2.5 mg 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.

Ouray Silver Mines

ACZ Project ID: **L66517**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L66517

Date Received: 06/16/2021 10:54

Received By:

Date Printed: 6/17/2021

Receipt Verification

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

Samples/Containers

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

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?
-----	-----	-----	-----	-----
6017	4	<=6.0	15	Yes

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.

Ouray Silver Mines

ACZ Project ID: L66517

Date Received: 06/16/2021 10:54

Received By:

Date Printed: 6/17/2021

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).

July 14, 2021

Report to:

Briana Greer
Ouray Silver Mines
285 S. Madison Ave.

Louisville, CO 80027

cc: Accounts Payable, Chris Bolane

Bill to:

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

Project ID:

ACZ Project ID: L66632

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 18, 2021. This project has been assigned to ACZ's project number, L66632. 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 L66632. 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 August 13, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: GW-1A

ACZ Sample ID: **L66632-01**

Date Sampled: 06/17/21 08:00

Date Received: 06/18/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								06/30/21 15:31	syw
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/29/21 11:28	emh

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	06/23/21 19:47	jlw
Antimony, dissolved	M200.8 ICP-MS	1	0.00095	B		mg/L	0.0004	0.002	07/02/21 18:05	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00079	B		mg/L	0.0002	0.001	07/02/21 18:05	bsu
Barium, dissolved	M200.7 ICP	1	0.0314	B		mg/L	0.007	0.035	06/23/21 19:47	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	07/02/21 18:05	bsu
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	06/23/21 19:47	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	0.000140	B		mg/L	0.00005	0.00025	07/02/21 18:05	bsu
Calcium, dissolved	M200.7 ICP	1	19.7		*	mg/L	0.1	0.5	06/23/21 19:47	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	07/02/21 18:05	bsu
Copper, dissolved	M200.8 ICP-MS	1	0.00102	B		mg/L	0.0008	0.002	07/02/21 18:05	bsu
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	06/23/21 19:47	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.00224			mg/L	0.0001	0.0005	07/02/21 18:05	bsu
Magnesium, dissolved	M200.7 ICP	1	1.61			mg/L	0.2	1	06/23/21 19:47	jlw
Manganese, dissolved	M200.7 ICP	1	<0.01	U	*	mg/L	0.01	0.05	06/23/21 19:47	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	06/23/21 14:58	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00088			mg/L	0.0002	0.0005	07/02/21 18:05	bsu
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/23/21 19:47	jlw
Potassium, dissolved	M200.7 ICP	1	0.64	B		mg/L	0.2	1	06/23/21 19:47	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00016	B		mg/L	0.0001	0.00025	07/02/21 18:05	bsu
Silica, dissolved	M200.7 ICP	1	4.6			mg/L	0.2	1	06/23/21 19:47	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:05	bsu
Sodium, dissolved	M200.7 ICP	1	1.98		*	mg/L	0.2	1	06/23/21 19:47	jlw
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:05	bsu
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:05	bsu
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	06/23/21 19:47	jlw
Zinc, dissolved	M200.7 ICP	1	0.054			mg/L	0.02	0.05	06/23/21 19:47	jlw

Ouray Silver Mines

Project ID:

Sample ID: GW-1A

ACZ Sample ID: **L66632-01**

Date Sampled: 06/17/21 08:00

Date Received: 06/18/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	33.0			mg/L	2	20	06/24/21 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/24/21 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	06/24/21 0:00	jck
Total Alkalinity		1	33.0			mg/L	2	20	06/24/21 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			07/14/21 0:00	calc
Sum of Anions			1.2			meq/L			07/14/21 0:00	calc
Sum of Cations			1.2			meq/L			07/14/21 0:00	calc
Chloride	SM4500Cl-E	1	0.58	B	*	mg/L	0.5	2	07/12/21 15:41	syw
Conductivity @25C	SM2510B	1	129			umhos/cm	1	10	06/24/21 23:42	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	07/01/21 16:59	syw
Fluoride	SM4500F-C	1	0.23	B		mg/L	0.15	0.35	06/30/21 16:24	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		56			mg/L	0.2	5	07/14/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.259			mg/L	0.02	0.1	06/26/21 20:59	pjb
pH (lab)	SM4500H+ B									
pH		1	7.7	H		units	0.1	0.1	06/24/21 0:00	jck
pH measured at		1	20.0			C	0.1	0.1	06/24/21 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	06/29/21 23:52	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	72		*	mg/L	20	40	06/24/21 13:59	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	06/24/21 10:02	cgm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	25.1		*	mg/L	5	25	07/13/21 13:22	wtc
TDS (calculated)	Calculation		75.9			mg/L			07/14/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.95						07/14/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: GW-1B

ACZ Sample ID: **L66632-02**

Date Sampled: 06/17/21 09:00

Date Received: 06/18/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								06/30/21 15:46	syw
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/29/21 11:36	emh

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	06/23/21 19:50	jlw
Antimony, dissolved	M200.8 ICP-MS	1	0.00090	B		mg/L	0.0004	0.002	07/02/21 18:14	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00054	B		mg/L	0.0002	0.001	07/08/21 18:28	bsu
Barium, dissolved	M200.7 ICP	1	0.0309	B		mg/L	0.007	0.035	06/23/21 19:50	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	07/02/21 18:14	bsu
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	06/23/21 19:50	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	0.000127	B		mg/L	0.00005	0.00025	07/02/21 18:14	bsu
Calcium, dissolved	M200.7 ICP	1	19.9		*	mg/L	0.1	0.5	06/23/21 19:50	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	07/08/21 18:28	bsu
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	07/08/21 18:28	bsu
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	06/23/21 19:50	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.00019	B		mg/L	0.0001	0.0005	07/02/21 18:14	bsu
Magnesium, dissolved	M200.7 ICP	1	1.64			mg/L	0.2	1	06/23/21 19:50	jlw
Manganese, dissolved	M200.7 ICP	1	<0.01	U	*	mg/L	0.01	0.05	06/23/21 19:50	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	06/23/21 14:59	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00091			mg/L	0.0002	0.0005	07/02/21 18:14	bsu
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/23/21 19:50	jlw
Potassium, dissolved	M200.7 ICP	1	0.60	B		mg/L	0.2	1	06/23/21 19:50	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00019	B		mg/L	0.0001	0.00025	07/02/21 18:14	bsu
Silica, dissolved	M200.7 ICP	1	4.7			mg/L	0.2	1	06/23/21 19:50	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:14	bsu
Sodium, dissolved	M200.7 ICP	1	1.74		*	mg/L	0.2	1	06/23/21 19:50	jlw
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:14	bsu
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:14	bsu
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	06/23/21 19:50	jlw
Zinc, dissolved	M200.7 ICP	1	0.050			mg/L	0.02	0.05	06/23/21 19:50	jlw

Ouray Silver Mines

Project ID:

Sample ID: GW-1B

ACZ Sample ID: **L66632-02**

Date Sampled: 06/17/21 09:00

Date Received: 06/18/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	32.6			mg/L	2	20	06/24/21 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/24/21 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	06/24/21 0:00	jck
Total Alkalinity		1	32.6			mg/L	2	20	06/24/21 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-7.7			%			07/14/21 0:00	calc
Sum of Anions			1.4			meq/L			07/14/21 0:00	calc
Sum of Cations			1.2			meq/L			07/14/21 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	07/12/21 15:41	syw
Conductivity @25C	SM2510B	1	128			umhos/cm	1	10	06/24/21 23:50	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	07/01/21 17:00	syw
Fluoride	SM4500F-C	1	0.20	B		mg/L	0.15	0.35	06/30/21 16:28	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		56			mg/L	0.2	5	07/14/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.260			mg/L	0.02	0.1	06/26/21 21:05	pjb
pH (lab)	SM4500H+ B									
pH		1	7.7	H		units	0.1	0.1	06/24/21 0:00	jck
pH measured at		1	20.0			C	0.1	0.1	06/24/21 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	06/29/21 23:53	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	72		*	mg/L	20	40	06/24/21 14:02	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	5.0	B	*	mg/L	5	20	06/24/21 10:04	cgm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	34.3		*	mg/L	1	5	07/13/21 12:44	wtc
TDS (calculated)	Calculation		84.3			mg/L			07/14/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.85						07/14/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: GW-99

ACZ Sample ID: **L66632-03**

Date Sampled: 06/17/21 08:30

Date Received: 06/18/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								06/30/21 16:02	syw
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/29/21 11:44	emh

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	06/23/21 19:53	jlw
Antimony, dissolved	M200.8 ICP-MS	1	0.00095	B		mg/L	0.0004	0.002	07/02/21 18:16	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00059	B		mg/L	0.0002	0.001	07/02/21 18:16	bsu
Barium, dissolved	M200.7 ICP	1	0.0297	B		mg/L	0.007	0.035	06/23/21 19:53	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	07/02/21 18:16	bsu
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	06/23/21 19:53	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	0.000126	B		mg/L	0.00005	0.00025	07/02/21 18:16	bsu
Calcium, dissolved	M200.7 ICP	1	19.5			mg/L	0.1	0.5	06/23/21 19:53	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	07/02/21 18:16	bsu
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	07/02/21 18:16	bsu
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	06/23/21 19:53	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.00015	B		mg/L	0.0001	0.0005	07/02/21 18:16	bsu
Magnesium, dissolved	M200.7 ICP	1	1.58			mg/L	0.2	1	06/23/21 19:53	jlw
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	06/23/21 19:53	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	06/23/21 15:00	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00090			mg/L	0.0002	0.0005	07/02/21 18:16	bsu
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/23/21 19:53	jlw
Potassium, dissolved	M200.7 ICP	1	0.61	B		mg/L	0.2	1	06/23/21 19:53	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00018	B		mg/L	0.0001	0.00025	07/02/21 18:16	bsu
Silica, dissolved	M200.7 ICP	1	4.5			mg/L	0.2	1	06/23/21 19:53	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:16	bsu
Sodium, dissolved	M200.7 ICP	1	7.11			mg/L	0.2	1	06/23/21 19:53	jlw
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:16	bsu
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:16	bsu
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	06/23/21 19:53	jlw
Zinc, dissolved	M200.7 ICP	1	0.049	B		mg/L	0.02	0.05	06/23/21 19:53	jlw

Ouray Silver Mines

Project ID:

Sample ID: GW-99

ACZ Sample ID: **L66632-03**

Date Sampled: 06/17/21 08:30

Date Received: 06/18/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	33.1			mg/L	2	20	06/24/21 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/24/21 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	06/24/21 0:00	jck
Total Alkalinity		1	33.1			mg/L	2	20	06/24/21 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			07/14/21 0:00	calc
Sum of Anions			1.4			meq/L			07/14/21 0:00	calc
Sum of Cations			1.4			meq/L			07/14/21 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	07/12/21 15:41	syw
Conductivity @25C	SM2510B	1	129			umhos/cm	1	10	06/24/21 23:58	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	07/01/21 17:02	syw
Fluoride	SM4500F-C	1	0.18	B		mg/L	0.15	0.35	06/30/21 16:46	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		55			mg/L	0.2	5	07/14/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.254			mg/L	0.02	0.1	06/26/21 21:06	pjb
pH (lab)	SM4500H+ B									
pH		1	7.7	H		units	0.1	0.1	06/24/21 0:00	jck
pH measured at		1	19.9			C	0.1	0.1	06/24/21 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	06/29/21 23:55	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	76		*	mg/L	20	40	06/24/21 14:04	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	06/24/21 10:07	cgm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	33.3		*	mg/L	1	5	07/13/21 12:44	wtc
TDS (calculated)	Calculation		88.2			mg/L			07/14/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.86						07/14/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: GW-2A

ACZ Sample ID: **L66632-04**

Date Sampled: 06/17/21 11:15

Date Received: 06/18/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								06/30/21 16:10	syw
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/29/21 11:52	emh

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	06/23/21 19:56	jlw
Antimony, dissolved	M200.8 ICP-MS	1	0.00092	B		mg/L	0.0004	0.002	07/02/21 18:18	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00025	B		mg/L	0.0002	0.001	07/02/21 18:18	bsu
Barium, dissolved	M200.7 ICP	1	0.0374			mg/L	0.007	0.035	06/23/21 19:56	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	07/02/21 18:18	bsu
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	06/23/21 19:56	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	0.000479			mg/L	0.00005	0.00025	07/02/21 18:18	bsu
Calcium, dissolved	M200.7 ICP	1	24.1			mg/L	0.1	0.5	06/23/21 19:56	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	07/02/21 18:18	bsu
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	07/02/21 18:18	bsu
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	06/23/21 19:56	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.00042	B		mg/L	0.0001	0.0005	07/02/21 18:18	bsu
Magnesium, dissolved	M200.7 ICP	1	1.90			mg/L	0.2	1	06/23/21 19:56	jlw
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	06/23/21 19:56	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	06/23/21 15:00	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00094			mg/L	0.0002	0.0005	07/02/21 18:18	bsu
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/23/21 19:56	jlw
Potassium, dissolved	M200.7 ICP	1	0.71	B		mg/L	0.2	1	06/23/21 19:56	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00011	B		mg/L	0.0001	0.00025	07/02/21 18:18	bsu
Silica, dissolved	M200.7 ICP	1	4.9			mg/L	0.2	1	06/23/21 19:56	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:18	bsu
Sodium, dissolved	M200.7 ICP	1	1.66			mg/L	0.2	1	06/23/21 19:56	jlw
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:18	bsu
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:18	bsu
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	06/23/21 19:56	jlw
Zinc, dissolved	M200.7 ICP	1	0.379			mg/L	0.02	0.05	06/23/21 19:56	jlw

Ouray Silver Mines

Project ID:

Sample ID: GW-2A

ACZ Sample ID: **L66632-04**

Date Sampled: 06/17/21 11:15

Date Received: 06/18/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	26.0			mg/L	2	20	06/25/21 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/25/21 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	06/25/21 0:00	jck
Total Alkalinity		1	26.0		*	mg/L	2	20	06/25/21 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			3.4			%			07/14/21 0:00	calc
Sum of Anions			1.4			meq/L			07/14/21 0:00	calc
Sum of Cations			1.5			meq/L			07/14/21 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	07/12/21 15:41	syw
Conductivity @25C	SM2510B	1	161		*	umhos/cm	1	10	06/25/21 0:14	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	07/01/21 17:03	syw
Fluoride	SM4500F-C	1	0.25	B		mg/L	0.15	0.35	06/30/21 16:50	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		68.0			mg/L	0.2	5	07/14/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.588			mg/L	0.02	0.1	06/26/21 21:07	pjb
pH (lab)	SM4500H+ B									
pH		1	7.5	H		units	0.1	0.1	06/25/21 0:00	jck
pH measured at		1	20.1			C	0.1	0.1	06/25/21 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	06/29/21 23:56	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	100		*	mg/L	20	40	06/24/21 14:07	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	32.0		*	mg/L	5	20	06/24/21 11:08	cgm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	42.8		*	mg/L	5	25	07/13/21 13:22	wtc
TDS (calculated)	Calculation		93.9			mg/L			07/14/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.06						07/14/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: GW-2B

ACZ Sample ID: **L66632-05**

Date Sampled: 06/17/21 11:35

Date Received: 06/18/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								06/30/21 16:18	syw
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/29/21 12:00	emh

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	06/23/21 20:00	jlw
Antimony, dissolved	M200.8 ICP-MS	1	0.00069	B		mg/L	0.0004	0.002	07/02/21 18:19	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00025	B		mg/L	0.0002	0.001	07/02/21 18:19	bsu
Barium, dissolved	M200.7 ICP	1	0.0640			mg/L	0.007	0.035	06/23/21 20:00	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	07/02/21 18:19	bsu
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	06/23/21 20:00	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	0.000244	B		mg/L	0.00005	0.00025	07/02/21 18:19	bsu
Calcium, dissolved	M200.7 ICP	1	34.5			mg/L	0.1	0.5	06/23/21 20:00	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	07/02/21 18:19	bsu
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	07/02/21 18:19	bsu
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	06/23/21 20:00	jlw
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:19	bsu
Magnesium, dissolved	M200.7 ICP	1	2.79			mg/L	0.2	1	06/23/21 20:00	jlw
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	06/23/21 20:00	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	06/23/21 15:01	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00074			mg/L	0.0002	0.0005	07/02/21 18:19	bsu
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/23/21 20:00	jlw
Potassium, dissolved	M200.7 ICP	1	0.77	B		mg/L	0.2	1	06/23/21 20:00	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00023	B		mg/L	0.0001	0.00025	07/02/21 18:19	bsu
Silica, dissolved	M200.7 ICP	1	5.5			mg/L	0.2	1	06/23/21 20:00	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:19	bsu
Sodium, dissolved	M200.7 ICP	1	2.08			mg/L	0.2	1	06/23/21 20:00	jlw
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:19	bsu
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:19	bsu
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	06/23/21 20:00	jlw
Zinc, dissolved	M200.7 ICP	1	0.324			mg/L	0.02	0.05	06/23/21 20:00	jlw

Ouray Silver Mines

Project ID:

Sample ID: GW-2B

ACZ Sample ID: **L66632-05**

Date Sampled: 06/17/21 11:35

Date Received: 06/18/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	29.3			mg/L	2	20	06/25/21 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/25/21 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	06/25/21 0:00	jck
Total Alkalinity		1	29.3		*	mg/L	2	20	06/25/21 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			07/14/21 0:00	calc
Sum of Anions			2.1			meq/L			07/14/21 0:00	calc
Sum of Cations			2.1			meq/L			07/14/21 0:00	calc
Chloride	SM4500Cl-E	1	0.65	B	*	mg/L	0.5	2	07/12/21 15:43	syw
Conductivity @25C	SM2510B	1	222		*	umhos/cm	1	10	06/25/21 0:22	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	07/01/21 17:05	syw
Fluoride	SM4500F-C	1	0.26	B		mg/L	0.15	0.35	06/30/21 17:13	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		98			mg/L	0.2	5	07/14/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.321			mg/L	0.02	0.1	06/26/21 21:09	pjb
pH (lab)	SM4500H+ B									
pH		1	7.5	H		units	0.1	0.1	06/25/21 0:00	jck
pH measured at		1	20.1			C	0.1	0.1	06/25/21 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	06/29/21 23:59	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	154		*	mg/L	20	40	06/24/21 16:01	eep
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	06/24/21 11:10	cgm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	70.3		*	mg/L	5	25	07/13/21 13:22	wtc
TDS (calculated)	Calculation		137			mg/L			07/14/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.12						07/14/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: GW-3B

ACZ Sample ID: **L66632-06**

Date Sampled: 06/17/21 10:15

Date Received: 06/18/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								06/30/21 16:25	syw
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/29/21 12:08	emh

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	06/23/21 20:03	jlw
Antimony, dissolved	M200.8 ICP-MS	1	0.00070	B		mg/L	0.0004	0.002	07/02/21 18:21	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00031	B		mg/L	0.0002	0.001	07/02/21 18:21	bsu
Barium, dissolved	M200.7 ICP	1	0.0470			mg/L	0.007	0.035	06/23/21 20:03	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	07/02/21 18:21	bsu
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	06/23/21 20:03	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	0.000082	B		mg/L	0.00005	0.00025	07/02/21 18:21	bsu
Calcium, dissolved	M200.7 ICP	1	31.5			mg/L	0.1	0.5	06/23/21 20:03	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	07/02/21 18:21	bsu
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	07/02/21 18:21	bsu
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	06/23/21 20:03	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.00348			mg/L	0.0001	0.0005	07/02/21 18:21	bsu
Magnesium, dissolved	M200.7 ICP	1	2.12			mg/L	0.2	1	06/23/21 20:03	jlw
Manganese, dissolved	M200.7 ICP	1	0.013	B		mg/L	0.01	0.05	06/23/21 20:03	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	06/23/21 15:02	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00062			mg/L	0.0002	0.0005	07/02/21 18:21	bsu
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/23/21 20:03	jlw
Potassium, dissolved	M200.7 ICP	1	0.75	B		mg/L	0.2	1	06/23/21 20:03	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00027			mg/L	0.0001	0.00025	07/02/21 18:21	bsu
Silica, dissolved	M200.7 ICP	1	5.3			mg/L	0.2	1	06/23/21 20:03	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:21	bsu
Sodium, dissolved	M200.7 ICP	1	2.21			mg/L	0.2	1	06/23/21 20:03	jlw
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:21	bsu
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:21	bsu
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	06/23/21 20:03	jlw
Zinc, dissolved	M200.7 ICP	1	0.125			mg/L	0.02	0.05	06/23/21 20:03	jlw

Ouray Silver Mines

Project ID:

Sample ID: GW-3B

ACZ Sample ID: **L66632-06**

Date Sampled: 06/17/21 10:15

Date Received: 06/18/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	30.1			mg/L	2	20	06/25/21 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/25/21 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	06/25/21 0:00	jck
Total Alkalinity		1	30.1		*	mg/L	2	20	06/25/21 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			07/14/21 0:00	calc
Sum of Anions			1.9			meq/L			07/14/21 0:00	calc
Sum of Cations			1.9			meq/L			07/14/21 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	07/12/21 15:43	syw
Conductivity @25C	SM2510B	1	198		*	umhos/cm	1	10	06/25/21 0:30	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	07/01/21 17:06	syw
Fluoride	SM4500F-C	1	0.20	B		mg/L	0.15	0.35	06/30/21 17:17	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		87			mg/L	0.2	5	07/14/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.404			mg/L	0.02	0.1	06/26/21 21:10	pjb
pH (lab)	SM4500H+ B									
pH		1	7.5	H		units	0.1	0.1	06/25/21 0:00	jck
pH measured at		1	20.3			C	0.1	0.1	06/25/21 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	06/30/21 0:00	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	128		*	mg/L	20	40	06/24/21 16:03	eep
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	06/24/21 11:13	cgm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	60.7		*	mg/L	5	25	07/13/21 13:23	wtc
TDS (calculated)	Calculation		123			mg/L			07/14/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.04						07/14/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: GW-3R

ACZ Sample ID: **L66632-07**

Date Sampled: 06/17/21 09:45

Date Received: 06/18/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								06/30/21 16:33	syw
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/29/21 12:16	emh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	0.729			mg/L	0.05	0.25	06/23/21 20:06	jlw
Antimony, dissolved	M200.8 ICP-MS	1	0.00291			mg/L	0.0004	0.002	07/02/21 18:23	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00478			mg/L	0.0002	0.001	07/02/21 18:23	bsu
Barium, dissolved	M200.7 ICP	1	0.0446			mg/L	0.007	0.035	06/23/21 20:06	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	07/02/21 18:23	bsu
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	06/23/21 20:06	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	0.000481			mg/L	0.00005	0.00025	07/02/21 18:23	bsu
Calcium, dissolved	M200.7 ICP	1	28.1			mg/L	0.1	0.5	06/23/21 20:06	jlw
Chromium, dissolved	M200.8 ICP-MS	1	0.00843			mg/L	0.0005	0.002	07/02/21 18:23	bsu
Copper, dissolved	M200.8 ICP-MS	1	0.0139			mg/L	0.0008	0.002	07/02/21 18:23	bsu
Iron, dissolved	M200.7 ICP	1	0.535			mg/L	0.06	0.15	06/23/21 20:06	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.146			mg/L	0.0001	0.0005	07/02/21 18:23	bsu
Magnesium, dissolved	M200.7 ICP	1	1.54			mg/L	0.2	1	06/23/21 20:06	jlw
Manganese, dissolved	M200.7 ICP	1	0.247			mg/L	0.01	0.05	06/23/21 20:06	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	06/23/21 15:03	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00160			mg/L	0.0002	0.0005	07/02/21 18:23	bsu
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/23/21 20:06	jlw
Potassium, dissolved	M200.7 ICP	1	1.75			mg/L	0.2	1	06/23/21 20:06	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00015	B		mg/L	0.0001	0.00025	07/02/21 18:23	bsu
Silica, dissolved	M200.7 ICP	1	7.5			mg/L	0.2	1	06/23/21 20:06	jlw
Silver, dissolved	M200.8 ICP-MS	1	0.00019	B		mg/L	0.0001	0.0005	07/02/21 18:23	bsu
Sodium, dissolved	M200.7 ICP	1	3.42			mg/L	0.2	1	06/23/21 20:06	jlw
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:23	bsu
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:23	bsu
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	06/23/21 20:06	jlw
Zinc, dissolved	M200.7 ICP	1	0.195			mg/L	0.02	0.05	06/23/21 20:06	jlw

Ouray Silver Mines

Project ID:

Sample ID: GW-3R

ACZ Sample ID: **L66632-07**

Date Sampled: 06/17/21 09:45

Date Received: 06/18/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	34.2			mg/L	2	20	06/25/21 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/25/21 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	06/25/21 0:00	jck
Total Alkalinity		1	34.2		*	mg/L	2	20	06/25/21 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			5.6			%			07/14/21 0:00	calc
Sum of Anions			1.7			meq/L			07/14/21 0:00	calc
Sum of Cations			1.9			meq/L			07/14/21 0:00	calc
Chloride	SM4500Cl-E	1	0.92	B	*	mg/L	0.5	2	07/12/21 15:43	syw
Conductivity @25C	SM2510B	1	184		*	umhos/cm	1	10	06/25/21 0:39	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	07/01/21 17:07	syw
Fluoride	SM4500F-C	1	0.16	B		mg/L	0.15	0.35	06/30/21 17:24	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		77			mg/L	0.2	5	07/14/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.417			mg/L	0.02	0.1	06/26/21 21:11	pjb
pH (lab)	SM4500H+ B									
pH		1	7.5	H		units	0.1	0.1	06/25/21 0:00	jck
pH measured at		1	20.2			C	0.1	0.1	06/25/21 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.207		*	mg/L	0.01	0.05	06/30/21 0:01	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	116		*	mg/L	20	40	06/24/21 16:08	eep
Residue, Non-Filterable (TSS) @105C	SM2540D	1	21.0		*	mg/L	5	20	06/24/21 11:16	cgm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	46.4		*	mg/L	5	25	07/13/21 13:23	wtc
TDS (calculated)	Calculation		114			mg/L			07/14/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.02						07/14/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: GW-0

ACZ Sample ID: **L66632-08**

Date Sampled: 06/17/21 12:00

Date Received: 06/18/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								06/30/21 16:41	syw
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								06/29/21 12:24	emh

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	06/23/21 20:22	jlw
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	07/02/21 18:25	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	07/02/21 18:25	bsu
Barium, dissolved	M200.7 ICP	1	<0.007	U		mg/L	0.007	0.035	06/23/21 20:22	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	07/02/21 18:25	bsu
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	06/23/21 20:22	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	07/02/21 18:25	bsu
Calcium, dissolved	M200.7 ICP	1	0.13	B		mg/L	0.1	0.5	06/23/21 20:22	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	07/02/21 18:25	bsu
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	07/02/21 18:25	bsu
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	06/23/21 20:22	jlw
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:25	bsu
Magnesium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	06/23/21 20:22	jlw
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	06/23/21 20:22	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	06/24/21 15:48	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.0005	07/02/21 18:25	bsu
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	06/23/21 20:22	jlw
Potassium, dissolved	M200.7 ICP	1	0.25	B		mg/L	0.2	1	06/23/21 20:22	jlw
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	07/02/21 18:25	bsu
Silica, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	06/23/21 20:22	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:25	bsu
Sodium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	06/23/21 20:22	jlw
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:25	bsu
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/02/21 18:25	bsu
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	06/23/21 20:22	jlw
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	06/23/21 20:22	jlw

Ouray Silver Mines

Project ID:

Sample ID: GW-0

ACZ Sample ID: **L66632-08**

Date Sampled: 06/17/21 12:00

Date Received: 06/18/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/25/21 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	06/25/21 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	06/25/21 0:00	jck
Total Alkalinity		1	<2	U	*	mg/L	2	20	06/25/21 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			n/a			%			07/14/21 0:00	calc
Sum of Anions			<	U		meq/L			07/14/21 0:00	calc
Sum of Cations			<	U		meq/L			07/14/21 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	07/12/21 15:43	syw
Conductivity @25C	SM2510B	1	<1	U	*	umhos/cm	1	10	06/25/21 0:45	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	07/01/21 17:08	syw
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	06/30/21 17:32	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		0.325	B		mg/L	0.2	5	07/14/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U		mg/L	0.02	0.1	06/26/21 21:12	pjb
pH (lab)	SM4500H+ B									
pH		1	5.8	H		units	0.1	0.1	06/25/21 0:00	jck
pH measured at		1	20.0			C	0.1	0.1	06/25/21 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	06/30/21 0:02	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	<20	U	*	mg/L	20	40	06/24/21 16:10	eep
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	06/24/21 11:18	cgm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	<1	U	*	mg/L	1	5	07/13/21 12:45	wtc
TDS (calculated)	Calculation		0.38			mg/L			07/14/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		n/a						07/14/21 0:00	calc



Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L66632**

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
WG521892													
WG521892PBW1	PBW	06/24/21 18:58				U	mg/L		-20	20			
WG521892LCSW3	LCSW	06/24/21 19:18	WC210622-2	820.0001		793	mg/L	97	90	110			
WG521892LCSW6	LCSW	06/24/21 22:31	WC210622-2	820.0001		781	mg/L	95	90	110			
WG521892PBW2	PBW	06/24/21 22:37				U	mg/L		-20	20			
L66632-03DUP	DUP	06/25/21 0:06			33.1	33.5	mg/L				1	20	
L66632-08DUP	DUP	06/25/21 0:51			U	U	mg/L				0	20	RA
WG521892LCSW9	LCSW	06/25/21 1:53	WC210622-2	820.0001		783.5	mg/L	96	90	110			
WG521892PBW3	PBW	06/25/21 1:59				2.1	mg/L		-20	20			
WG521892LCSW12	LCSW	06/25/21 6:49	WC210622-2	820.0001		787.6	mg/L	96	90	110			
WG521892PBW4	PBW	06/25/21 6:55				U	mg/L		-20	20			
WG521892LCSW15	LCSW	06/25/21 10:32	WC210622-2	820.0001		801.6	mg/L	98	90	110			

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521725													
WG521725ICV	ICV	06/23/21 18:44	II210608-1	2		1.947	mg/L	97	95	105			
WG521725ICB	ICB	06/23/21 18:50				U	mg/L		-0.15	0.15			
WG521725LFB	LFB	06/23/21 19:03	II210622-2	1.0013		.991	mg/L	99	85	115			
L66608-03AS	AS	06/23/21 19:17	II210622-2	1.0013	.296	1.318	mg/L	102	85	115			
L66608-03ASD	ASD	06/23/21 19:20	II210622-2	1.0013	.296	1.323	mg/L	103	85	115	0	20	
L66632-07AS	AS	06/23/21 20:09	II210622-2	1.0013	.729	1.786	mg/L	106	85	115			
L66632-07ASD	ASD	06/23/21 20:13	II210622-2	1.0013	.729	1.786	mg/L	106	85	115	0	20	

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522457													
WG522457ICV	ICV	07/02/21 17:52	MS210630-2	.0201		.02037	mg/L	101	90	110			
WG522457ICB	ICB	07/02/21 17:54				U	mg/L		-0.00088	0.00088			
WG522457LFB	LFB	07/02/21 17:56	MS210702-2	.01		.00965	mg/L	97	85	115			
L66632-01AS	AS	07/02/21 18:07	MS210702-2	.01	.00095	.00946	mg/L	85	70	130			
L66632-01ASD	ASD	07/02/21 18:09	MS210702-2	.01	.00095	.00956	mg/L	86	70	130	1	20	
L66643-03AS	AS	07/02/21 18:36	MS210702-2	.01	.00041	.00899	mg/L	86	70	130			
L66643-03ASD	ASD	07/02/21 18:38	MS210702-2	.01	.00041	.00919	mg/L	88	70	130	2	20	

Ouray Silver Mines

ACZ Project ID: **L66632**

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.

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522457													
WG522457ICV	ICV	07/02/21 17:52	MS210630-2	.05		.05099	mg/L	102	90	110			
WG522457ICB	ICB	07/02/21 17:54				U	mg/L		-0.00044	0.00044			
WG522457LFB	LFB	07/02/21 17:56	MS210702-2	.05005		.05031	mg/L	101	85	115			
L66632-01AS	AS	07/02/21 18:07	MS210702-2	.05005	.00079	.05165	mg/L	102	70	130			
L66632-01ASD	ASD	07/02/21 18:09	MS210702-2	.05005	.00079	.05132	mg/L	101	70	130	1	20	
L66643-03AS	AS	07/02/21 18:36	MS210702-2	.05005	.00289	.05257	mg/L	99	70	130			
L66643-03ASD	ASD	07/02/21 18:38	MS210702-2	.05005	.00289	.05391	mg/L	102	70	130	3	20	
WG522751													
WG522751ICV	ICV	07/08/21 18:18	MS210630-2	.05		.05104	mg/L	102	90	110			
WG522751ICB	ICB	07/08/21 18:20				U	mg/L		-0.00044	0.00044			
WG522751LFB	LFB	07/08/21 18:22	MS210702-2	.05005		.05205	mg/L	104	85	115			
L66655-02AS	AS	07/08/21 18:33	MS210702-2	.05005	U	.05224	mg/L	104	70	130			
L66655-02ASD	ASD	07/08/21 18:35	MS210702-2	.05005	U	.05165	mg/L	103	70	130	1	20	

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521725													
WG521725ICV	ICV	06/23/21 18:44	II210608-1	2		1.9775	mg/L	99	95	105			
WG521725ICB	ICB	06/23/21 18:50				U	mg/L		-0.021	0.021			
WG521725LFB	LFB	06/23/21 19:03	II210622-2	.5		.4895	mg/L	98	85	115			
L66608-03AS	AS	06/23/21 19:17	II210622-2	.5	.0177	.5047	mg/L	97	85	115			
L66608-03ASD	ASD	06/23/21 19:20	II210622-2	.5	.0177	.4975	mg/L	96	85	115	1	20	
L66632-07AS	AS	06/23/21 20:09	II210622-2	.5	.0446	.5355	mg/L	98	85	115			
L66632-07ASD	ASD	06/23/21 20:13	II210622-2	.5	.0446	.5361	mg/L	98	85	115	0	20	

Beryllium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522457													
WG522457ICV	ICV	07/02/21 17:52	MS210630-2	.05		.046749	mg/L	93	90	110			
WG522457ICB	ICB	07/02/21 17:54				.000148	mg/L		-0.000176	0.000176			
WG522457LFB	LFB	07/02/21 17:56	MS210702-2	.05005		.046505	mg/L	93	85	115			
L66632-01AS	AS	07/02/21 18:07	MS210702-2	.05005	U	.046943	mg/L	94	70	130			
L66632-01ASD	ASD	07/02/21 18:09	MS210702-2	.05005	U	.047384	mg/L	95	70	130	1	20	
L66643-03AS	AS	07/02/21 18:36	MS210702-2	.05005	U	.045055	mg/L	90	70	130			
L66643-03ASD	ASD	07/02/21 18:38	MS210702-2	.05005	U	.04464	mg/L	89	70	130	1	20	

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521725													
WG521725ICV	ICV	06/23/21 18:44	II210608-1	2		1.995	mg/L	100	95	105			
WG521725ICB	ICB	06/23/21 18:50				U	mg/L		-0.09	0.09			
WG521725LFB	LFB	06/23/21 19:03	II210622-2	.5005		.51	mg/L	102	85	115			
L66608-03AS	AS	06/23/21 19:17	II210622-2	.5005	U	.512	mg/L	102	85	115			
L66608-03ASD	ASD	06/23/21 19:20	II210622-2	.5005	U	.506	mg/L	101	85	115	1	20	
L66632-07AS	AS	06/23/21 20:09	II210622-2	.5005	U	.516	mg/L	103	85	115			
L66632-07ASD	ASD	06/23/21 20:13	II210622-2	.5005	U	.527	mg/L	105	85	115	2	20	

Ouray Silver Mines

ACZ Project ID: **L66632**

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.

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522457													
WG522457ICV	ICV	07/02/21 17:52	MS210630-2	.05		.050886	mg/L	102	90	110			
WG522457ICB	ICB	07/02/21 17:54				U	mg/L		-0.00011	0.00011			
WG522457LFB	LFB	07/02/21 17:56	MS210702-2	.05005		.049497	mg/L	99	85	115			
L66632-01AS	AS	07/02/21 18:07	MS210702-2	.05005	.00014	.048619	mg/L	97	70	130			
L66632-01ASD	ASD	07/02/21 18:09	MS210702-2	.05005	.00014	.049135	mg/L	98	70	130	1	20	
L66643-03AS	AS	07/02/21 18:36	MS210702-2	.05005	U	.048232	mg/L	96	70	130			
L66643-03ASD	ASD	07/02/21 18:38	MS210702-2	.05005	U	.048909	mg/L	98	70	130	1	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521725													
WG521725ICV	ICV	06/23/21 18:44	II210608-1	100		99.38	mg/L	99	95	105			
WG521725ICB	ICB	06/23/21 18:50				.12	mg/L		-0.3	0.3			
WG521725LFB	LFB	06/23/21 19:03	II210622-2	67.98753		68.96	mg/L	101	85	115			
L66608-03AS	AS	06/23/21 19:17	II210622-2	67.98753	558	611.9	mg/L	79	85	115			M3
L66608-03ASD	ASD	06/23/21 19:20	II210622-2	67.98753	558	602.2	mg/L	65	85	115	2	20	M3
L66632-07AS	AS	06/23/21 20:09	II210622-2	67.98753	28.1	97.68	mg/L	102	85	115			
L66632-07ASD	ASD	06/23/21 20:13	II210622-2	67.98753	28.1	95.55	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
WG522956													
WG522956ICB	ICB	07/12/21 15:03				U	mg/L		-1.5	1.5			
WG522956ICV	ICV	07/12/21 15:03	WI210503-1	54.89		56.09	mg/L	102	90	110			
WG522956LFB1	LFB	07/12/21 15:39	WI200327-3	30.03		32.18	mg/L	107	90	110			
L66632-02AS	AS	07/12/21 15:41	WI200327-3	30.03	U	31.83	mg/L	106	90	110			
L66632-03DUP	DUP	07/12/21 15:41			U	U	mg/L				0	20	RA
WG522956LFB2	LFB	07/12/21 15:43	WI200327-3	30.03		32.48	mg/L	108	90	110			

Chromium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522457													
WG522457ICV	ICV	07/02/21 17:52	MS210630-2	.05		.05097	mg/L	102	90	110			
WG522457ICB	ICB	07/02/21 17:54				U	mg/L		-0.0011	0.0011			
WG522457LFB	LFB	07/02/21 17:56	MS210702-2	.05		.04979	mg/L	100	85	115			
L66632-01AS	AS	07/02/21 18:07	MS210702-2	.05	U	.04916	mg/L	98	70	130			
L66632-01ASD	ASD	07/02/21 18:09	MS210702-2	.05	U	.0492	mg/L	98	70	130	0	20	
L66643-03AS	AS	07/02/21 18:36	MS210702-2	.05	U	.04822	mg/L	96	70	130			
L66643-03ASD	ASD	07/02/21 18:38	MS210702-2	.05	U	.04887	mg/L	98	70	130	1	20	
WG522751													
WG522751ICV	ICV	07/08/21 18:18	MS210630-2	.05		.05137	mg/L	103	90	110			
WG522751ICB	ICB	07/08/21 18:20				U	mg/L		-0.0011	0.0011			
WG522751LFB	LFB	07/08/21 18:22	MS210702-2	.05		.05179	mg/L	104	85	115			
L66655-02AS	AS	07/08/21 18:33	MS210702-2	.05	U	.05076	mg/L	102	70	130			
L66655-02ASD	ASD	07/08/21 18:35	MS210702-2	.05	U	.05007	mg/L	100	70	130	1	20	

Ouray Silver Mines

ACZ Project ID: **L66632**

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.

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521892													
WG521892LCSW2	LCSW	06/24/21 19:04	PCN63133	1410		1421	umhos/cm	101	90	110			
WG521892LCSW5	LCSW	06/24/21 22:19	PCN63133	1410		1407	umhos/cm	100	90	110			
L66632-03DUP	DUP	06/25/21 0:06			129	129	umhos/cm				0	20	
L66632-08DUP	DUP	06/25/21 0:51			U	U	umhos/cm				0	20	RA
WG521892LCSW8	LCSW	06/25/21 1:41	PCN63133	1410		1389	umhos/cm	99	90	110			
WG521892LCSW11	LCSW	06/25/21 6:37	PCN63133	1410		1386	umhos/cm	98	90	110			
WG521892LCSW14	LCSW	06/25/21 10:19	PCN63133	1410		1380	umhos/cm	98	90	110			

Copper, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522457													
WG522457ICV	ICV	07/02/21 17:52	MS210630-2	.05		.05181	mg/L	104	90	110			
WG522457ICB	ICB	07/02/21 17:54				U	mg/L		-0.00176	0.00176			
WG522457LFB	LFB	07/02/21 17:56	MS210702-2	.05		.04968	mg/L	99	85	115			
L66632-01AS	AS	07/02/21 18:07	MS210702-2	.05	.00102	.0501	mg/L	98	70	130			
L66632-01ASD	ASD	07/02/21 18:09	MS210702-2	.05	.00102	.05006	mg/L	98	70	130	0	20	
L66643-03AS	AS	07/02/21 18:36	MS210702-2	.05	.00091	.04904	mg/L	96	70	130			
L66643-03ASD	ASD	07/02/21 18:38	MS210702-2	.05	.00091	.04981	mg/L	98	70	130	2	20	
WG522751													
WG522751ICV	ICV	07/08/21 18:18	MS210630-2	.05		.05215	mg/L	104	90	110			
WG522751ICB	ICB	07/08/21 18:20				U	mg/L		-0.00176	0.00176			
WG522751LFB	LFB	07/08/21 18:22	MS210702-2	.05		.05179	mg/L	104	85	115			
L66655-02AS	AS	07/08/21 18:33	MS210702-2	.05	.00227	.05288	mg/L	101	70	130			
L66655-02ASD	ASD	07/08/21 18:35	MS210702-2	.05	.00227	.05246	mg/L	100	70	130	1	20	

Cyanide, total

M335.4 - Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522398													
WG522398ICV	ICV	07/01/21 16:53	WI210701-7	.3		.3163	mg/L	105	90	110			
WG522398ICB	ICB	07/01/21 16:54				U	mg/L		-0.003	0.003			
WG522275LRB	LRB	07/01/21 16:55				U	mg/L		-0.003	0.003			
WG522275LFB	LFB	07/01/21 16:56	WI210616-5	.2		.2026	mg/L	101	90	110			
L66632-01DUP	DUP	07/01/21 16:59			U	U	mg/L				0	20	RA
L66632-02LFM	LFM	07/01/21 17:01	WI210616-5	.2	U	.1979	mg/L	99	90	110			

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522254													
WG522254ICV	ICV	06/30/21 12:25	WC210623-1	2.002		1.99	mg/L	99	90	110			
WG522254ICB	ICB	06/30/21 12:30				U	mg/L		-0.3	0.3			
WG522254LFB1	LFB	06/30/21 12:37	WC201221-2	5.015		4.93	mg/L	98	90	110			
WG522254LFB2	LFB	06/30/21 15:17	WC201221-2	5.015		4.98	mg/L	99	90	110			
L66632-04AS	AS	06/30/21 16:58	WC201221-2	5.015	.25	5.12	mg/L	97	90	110			
L66632-04ASD	ASD	06/30/21 17:05	WC201221-2	5.015	.25	5.09	mg/L	97	90	110	1	20	

Ouray Silver Mines

ACZ Project ID: **L66632**

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
WG521725													
WG521725ICV	ICV	06/23/21 18:44	II210608-1	2		1.96	mg/L	98	95	105			
WG521725ICB	ICB	06/23/21 18:50				U	mg/L		-0.18	0.18			
WG521725LFB	LFB	06/23/21 19:03	II210622-2	1.0018		1.031	mg/L	103	85	115			
L66608-03AS	AS	06/23/21 19:17	II210622-2	1.0018	U	1.016	mg/L	101	85	115			
L66608-03ASD	ASD	06/23/21 19:20	II210622-2	1.0018	U	1.02	mg/L	102	85	115	0	20	
L66632-07AS	AS	06/23/21 20:09	II210622-2	1.0018	.535	1.54	mg/L	100	85	115			
L66632-07ASD	ASD	06/23/21 20:13	II210622-2	1.0018	.535	1.563	mg/L	103	85	115	1	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522457													
WG522457ICV	ICV	07/02/21 17:52	MS210630-2	.05		.05126	mg/L	103	90	110			
WG522457ICB	ICB	07/02/21 17:54				U	mg/L		-0.00022	0.00022			
WG522457LFB	LFB	07/02/21 17:56	MS210702-2	.05005		.05042	mg/L	101	85	115			
L66632-01AS	AS	07/02/21 18:07	MS210702-2	.05005	.00224	.05117	mg/L	98	70	130			
L66632-01ASD	ASD	07/02/21 18:09	MS210702-2	.05005	.00224	.05185	mg/L	99	70	130	1	20	
L66643-03AS	AS	07/02/21 18:36	MS210702-2	.05005	U	.05001	mg/L	100	70	130			
L66643-03ASD	ASD	07/02/21 18:38	MS210702-2	.05005	U	.05042	mg/L	101	70	130	1	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521725													
WG521725ICV	ICV	06/23/21 18:44	II210608-1	100		98.53	mg/L	99	95	105			
WG521725ICB	ICB	06/23/21 18:50				U	mg/L		-0.6	0.6			
WG521725LFB	LFB	06/23/21 19:03	II210622-2	50.00302		49.54	mg/L	99	85	115			
L66608-03AS	AS	06/23/21 19:17	II210622-2	50.00302	11.7	59.86	mg/L	96	85	115			
L66608-03ASD	ASD	06/23/21 19:20	II210622-2	50.00302	11.7	60.84	mg/L	98	85	115	2	20	
L66632-07AS	AS	06/23/21 20:09	II210622-2	50.00302	1.54	51.86	mg/L	101	85	115			
L66632-07ASD	ASD	06/23/21 20:13	II210622-2	50.00302	1.54	50.74	mg/L	98	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
WG521725													
WG521725ICV	ICV	06/23/21 18:44	II210608-1	2		1.954	mg/L	98	95	105			
WG521725ICB	ICB	06/23/21 18:50				U	mg/L		-0.03	0.03			
WG521725LFB	LFB	06/23/21 19:03	II210622-2	.5005		.493	mg/L	99	85	115			
L66608-03AS	AS	06/23/21 19:17	II210622-2	.5005	40.1	39.3	mg/L	-160	85	115			M3
L66608-03ASD	ASD	06/23/21 19:20	II210622-2	.5005	40.1	38.63	mg/L	-294	85	115	2	20	M3
L66632-07AS	AS	06/23/21 20:09	II210622-2	.5005	.247	.71	mg/L	93	85	115			
L66632-07ASD	ASD	06/23/21 20:13	II210622-2	.5005	.247	.711	mg/L	93	85	115	0	20	

Ouray Silver Mines

ACZ Project ID: **L66632**

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
WG521581													
WG521581ICV	ICV	06/23/21 10:03	HG210601-3	.00501		.00507	mg/L	101	95	105			
WG521581ICB	ICB	06/23/21 10:04				U	mg/L		-0.0002	0.0002			
WG521698													
WG521698LRB	LRB	06/23/21 14:36				U	mg/L		-0.00044	0.00044			
WG521698LFB	LFB	06/23/21 14:37	HG210601-6	.002002		.00181	mg/L	90	85	115			
L66598-01LFM	LFM	06/23/21 14:52	HG210601-6	.002002	U	.00176	mg/L	88	85	115			
L66598-01LFMD	LFMD	06/23/21 14:53	HG210601-6	.002002	U	.00182	mg/L	91	85	115	3	20	
WG521803													
WG521803ICV	ICV	06/24/21 12:22	HG210601-3	.00501		.00493	mg/L	98	95	105			
WG521803ICB	ICB	06/24/21 12:22				U	mg/L		-0.0002	0.0002			
WG521801													
WG521801LRB	LRB	06/24/21 15:08				U	mg/L		-0.00044	0.00044			
WG521801LFB	LFB	06/24/21 15:09	HG210601-6	.002002		.00177	mg/L	88	85	115			
L63922-22LFM	LFM	06/24/21 15:24	HG210601-6	.002002	U	.00222	mg/L	111	85	115			
L63922-22LFMD	LFMD	06/24/21 15:25	HG210601-6	.002002	U	.00188	mg/L	94	85	115	17	20	

Molybdenum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522457													
WG522457ICV	ICV	07/02/21 17:52	MS210630-2	.01992		.02025	mg/L	102	90	110			
WG522457ICB	ICB	07/02/21 17:54				U	mg/L		-0.00044	0.00044			
WG522457LFB	LFB	07/02/21 17:56	MS210702-2	.0501		.05082	mg/L	101	85	115			
L66632-01AS	AS	07/02/21 18:07	MS210702-2	.0501	.00088	.05009	mg/L	98	70	130			
L66632-01ASD	ASD	07/02/21 18:09	MS210702-2	.0501	.00088	.05061	mg/L	99	70	130	1	20	
L66643-03AS	AS	07/02/21 18:36	MS210702-2	.0501	.0138	.06318	mg/L	99	70	130			
L66643-03ASD	ASD	07/02/21 18:38	MS210702-2	.0501	.0138	.06414	mg/L	100	70	130	2	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521725													
WG521725ICV	ICV	06/23/21 18:44	II210608-1	2		1.941	mg/L	97	95	105			
WG521725ICB	ICB	06/23/21 18:50				U	mg/L		-0.024	0.024			
WG521725LFB	LFB	06/23/21 19:03	II210622-2	.5		.4849	mg/L	97	85	115			
L66608-03AS	AS	06/23/21 19:17	II210622-2	.5	U	.4779	mg/L	96	85	115			
L66608-03ASD	ASD	06/23/21 19:20	II210622-2	.5	U	.4799	mg/L	96	85	115	0	20	
L66632-07AS	AS	06/23/21 20:09	II210622-2	.5	U	.4942	mg/L	99	85	115			
L66632-07ASD	ASD	06/23/21 20:13	II210622-2	.5	U	.4903	mg/L	98	85	115	1	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
WG521999													
WG521999ICV	ICV	06/26/21 20:28	WI210603-7	2.416		2.465	mg/L	102	90	110			
WG521999ICB	ICB	06/26/21 20:29				U	mg/L		-0.02	0.02			
WG521999LFB	LFB	06/26/21 20:33	WI210331-13	2		2.116	mg/L	106	90	110			
L66547-03DUP	DUP	06/26/21 20:58			1.92	1.939	mg/L				1	20	
L66547-02AS	AS	06/26/21 21:15	WI210331-13	6	5.11	11.476	mg/L	106	90	110			

Ouray Silver Mines

ACZ Project ID: **L66632**

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
WG521892													
WG521892LCSW1	LCSW	06/24/21 19:03	PCN61687	6		6	units	100	5.9	6.1			
WG521892LCSW4	LCSW	06/24/21 22:17	PCN61687	6		6.1	units	102	5.9	6.1			
L66632-03DUP	DUP	06/25/21 0:06			7.7	7.7	units				0	20	
L66632-08DUP	DUP	06/25/21 0:51			5.8	5.6	units				4	20	
WG521892LCSW7	LCSW	06/25/21 1:39	PCN61687	6		6.1	units	102	5.9	6.1			
WG521892LCSW10	LCSW	06/25/21 6:35	PCN61687	6		6.1	units	102	5.9	6.1			
WG521892LCSW13	LCSW	06/25/21 10:18	PCN61687	6		6.1	units	102	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
WG522196													
WG522196ICV	ICV	06/29/21 21:46	WI210603-3	.65228		.687	mg/L	105	90	110			
WG522196ICB	ICB	06/29/21 21:48				U	mg/L		-0.01	0.01			
WG522199													
WG522117LRB	LRB	06/29/21 23:45				U	mg/L		-0.01	0.01			
WG522117LFB	LFB	06/29/21 23:47	WI210617-5	.5		.527	mg/L	105	90	110			
L66616-03LFM	LFM	06/29/21 23:49	WI210617-5	.5		.524	mg/L	105	90	110			
L66617-03DUP	DUP	06/29/21 23:51			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
WG521725													
WG521725ICV	ICV	06/23/21 18:44	II210608-1	20		19.18	mg/L	96	95	105			
WG521725ICB	ICB	06/23/21 18:50				.23	mg/L		-0.6	0.6			
WG521725LFB	LFB	06/23/21 19:03	II210622-2	100.0157		99	mg/L	99	85	115			
L66608-03AS	AS	06/23/21 19:17	II210622-2	100.0157	241	335.1	mg/L	94	85	115			
L66608-03ASD	ASD	06/23/21 19:20	II210622-2	100.0157	241	332.7	mg/L	92	85	115	1	20	
L66632-07AS	AS	06/23/21 20:09	II210622-2	100.0157	1.75	104.3	mg/L	103	85	115			
L66632-07ASD	ASD	06/23/21 20:13	II210622-2	100.0157	1.75	101.4	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
WG521865													
WG521865PBW	PBW	06/24/21 13:10				U	mg/L		-20	20			
WG521865LCSW	LCSW	06/24/21 13:12	PCN63836	1000		992	mg/L	99	80	120			
L66632-04DUP	DUP	06/24/21 14:10			100	102	mg/L				2	10	RA
WG521875													
WG521875PBW	PBW	06/24/21 15:55				U	mg/L		-20	20			
WG521875LCSW	LCSW	06/24/21 15:57	PCN63836	1000		982	mg/L	98	80	120			
L66632-06DUP	DUP	06/24/21 16:05			128	124	mg/L				3	10	RA

Ouray Silver Mines

ACZ Project ID: **L66632**

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.

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

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521805													
WG521805PBW	PBW	06/24/21 9:10				U	mg/L		-5	5			
WG521805LCSW	LCSW	06/24/21 9:12	PCN63836	100		90	mg/L	90	80	120			
L66632-03DUP	DUP	06/24/21 10:10			U	U	mg/L				0	10	RA
WG521840													
WG521840PBW	PBW	06/24/21 10:50				U	mg/L		-5	5			
WG521840LCSW	LCSW	06/24/21 10:52	PCN63836	100		97	mg/L	97	80	120			
L66632-08DUP	DUP	06/24/21 11:21			U	U	mg/L				0	10	RA

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522457													
WG522457ICV	ICV	07/02/21 17:52	MS210630-2	.05		.05005	mg/L	100	90	110			
WG522457ICB	ICB	07/02/21 17:54				.00013	mg/L		-0.00022	0.00022			
WG522457LFB	LFB	07/02/21 17:56	MS210702-2	.05		.05036	mg/L	101	85	115			
L66632-01AS	AS	07/02/21 18:07	MS210702-2	.05	.00016	.05144	mg/L	103	70	130			
L66632-01ASD	ASD	07/02/21 18:09	MS210702-2	.05	.00016	.0515	mg/L	103	70	130	0	20	
L66643-03AS	AS	07/02/21 18:36	MS210702-2	.05	U	.05101	mg/L	102	70	130			
L66643-03ASD	ASD	07/02/21 18:38	MS210702-2	.05	U	.05102	mg/L	102	70	130	0	20	

Silica, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521725													
WG521725ICV	ICV	06/23/21 18:44	II210608-1	42.8		42.66	mg/L	100	95	105			
WG521725ICB	ICB	06/23/21 18:50				U	mg/L		-0.6	0.6			
WG521725LFB	LFB	06/23/21 19:03	II210622-2	21.415		22.01	mg/L	103	85	115			
L66608-03AS	AS	06/23/21 19:17	II210622-2	21.415	2.3	24.66	mg/L	104	85	115			
L66608-03ASD	ASD	06/23/21 19:20	II210622-2	21.415	2.3	24.33	mg/L	103	85	115	1	20	
L66632-07AS	AS	06/23/21 20:09	II210622-2	21.415	7.5	29.7	mg/L	104	85	115			
L66632-07ASD	ASD	06/23/21 20:13	II210622-2	21.415	7.5	29.91	mg/L	105	85	115	1	20	

Silver, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522457													
WG522457ICV	ICV	07/02/21 17:52	MS210630-2	.02		.01998	mg/L	100	90	110			
WG522457ICB	ICB	07/02/21 17:54				U	mg/L		-0.00022	0.00022			
WG522457LFB	LFB	07/02/21 17:56	MS210702-2	.01002		.01018	mg/L	102	85	115			
L66632-01AS	AS	07/02/21 18:07	MS210702-2	.01002	U	.0099	mg/L	99	70	130			
L66632-01ASD	ASD	07/02/21 18:09	MS210702-2	.01002	U	.00991	mg/L	99	70	130	0	20	
L66643-03AS	AS	07/02/21 18:36	MS210702-2	.01002	U	.00882	mg/L	88	70	130			
L66643-03ASD	ASD	07/02/21 18:38	MS210702-2	.01002	U	.009	mg/L	90	70	130	2	20	

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ACZ Project ID: **L66632**

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.

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521725													
WG521725ICV	ICV	06/23/21 18:44	II210608-1	100		98.62	mg/L	99	95	105			
WG521725ICB	ICB	06/23/21 18:50				U	mg/L		-0.6	0.6			
WG521725LFB	LFB	06/23/21 19:03	II210622-2	100.0605		98.37	mg/L	98	85	115			
L66608-03AS	AS	06/23/21 19:17	II210622-2	100.0605	491	570.9	mg/L	80	85	115			M3
L66608-03ASD	ASD	06/23/21 19:20	II210622-2	100.0605	491	561.6	mg/L	71	85	115	2	20	M3
L66632-07AS	AS	06/23/21 20:09	II210622-2	100.0605	3.42	105.6	mg/L	102	85	115			
L66632-07ASD	ASD	06/23/21 20:13	II210622-2	100.0605	3.42	103.1	mg/L	100	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
WG523091													
WG523091ICB	ICB	07/13/21 9:59				U	mg/L		-3	3			
WG523091ICV	ICV	07/13/21 9:59	WI210629-1	20.46		19.9	mg/L	97	90	110			
WG523091LFB	LFB	07/13/21 12:42	WI210105-3	10		9.8	mg/L	98	90	110			
L66632-08AS	AS	07/13/21 12:45	WI210105-3	10	U	8.8	mg/L	88	90	110			M2
L66651-04DUP	DUP	07/13/21 13:24			43.2	44.1	mg/L				2	20	RA

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522457													
WG522457ICV	ICV	07/02/21 17:52	MS210630-2	.05		.05135	mg/L	103	90	110			
WG522457ICB	ICB	07/02/21 17:54				U	mg/L		-0.00022	0.00022			
WG522457LFB	LFB	07/02/21 17:56	MS210702-2	.05		.04942	mg/L	99	85	115			
L66632-01AS	AS	07/02/21 18:07	MS210702-2	.05	U	.04833	mg/L	97	70	130			
L66632-01ASD	ASD	07/02/21 18:09	MS210702-2	.05	U	.04891	mg/L	98	70	130	1	20	
L66643-03AS	AS	07/02/21 18:36	MS210702-2	.05	U	.04916	mg/L	98	70	130			
L66643-03ASD	ASD	07/02/21 18:38	MS210702-2	.05	U	.04946	mg/L	99	70	130	1	20	

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522457													
WG522457ICV	ICV	07/02/21 17:52	MS210630-2	.05		.05028	mg/L	101	90	110			
WG522457ICB	ICB	07/02/21 17:54				U	mg/L		-0.00022	0.00022			
WG522457LFB	LFB	07/02/21 17:56	MS210702-2	.05		.04957	mg/L	99	85	115			
L66632-01AS	AS	07/02/21 18:07	MS210702-2	.05	U	.04841	mg/L	97	70	130			
L66632-01ASD	ASD	07/02/21 18:09	MS210702-2	.05	U	.04862	mg/L	97	70	130	0	20	
L66643-03AS	AS	07/02/21 18:36	MS210702-2	.05	.00315	.05319	mg/L	100	70	130			
L66643-03ASD	ASD	07/02/21 18:38	MS210702-2	.05	.00315	.05323	mg/L	100	70	130	0	20	

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ACZ Project ID: **L66632**

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.

Vanadium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521725													
WG521725ICV	ICV	06/23/21 18:44	II210608-1	2		1.978	mg/L	99	95	105			
WG521725ICB	ICB	06/23/21 18:50				U	mg/L		-0.015	0.015			
WG521725LFB	LFB	06/23/21 19:03	II210622-2	.5005		.5034	mg/L	101	85	115			
L66608-03AS	AS	06/23/21 19:17	II210622-2	.5005	U	.4903	mg/L	98	85	115			
L66608-03ASD	ASD	06/23/21 19:20	II210622-2	.5005	U	.499	mg/L	100	85	115	2	20	
L66632-07AS	AS	06/23/21 20:09	II210622-2	.5005	U	.5153	mg/L	103	85	115			
L66632-07ASD	ASD	06/23/21 20:13	II210622-2	.5005	U	.503	mg/L	100	85	115	2	20	

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG521725													
WG521725ICV	ICV	06/23/21 18:44	II210608-1	2		1.968	mg/L	98	95	105			
WG521725ICB	ICB	06/23/21 18:50				U	mg/L		-0.06	0.06			
WG521725LFB	LFB	06/23/21 19:03	II210622-2	.50075		.486	mg/L	97	85	115			
L66608-03AS	AS	06/23/21 19:17	II210622-2	.50075	.18	.663	mg/L	96	85	115			
L66608-03ASD	ASD	06/23/21 19:20	II210622-2	.50075	.18	.682	mg/L	100	85	115	3	20	
L66632-07AS	AS	06/23/21 20:09	II210622-2	.50075	.195	.697	mg/L	100	85	115			
L66632-07ASD	ASD	06/23/21 20:13	II210622-2	.50075	.195	.687	mg/L	98	85	115	1	20	

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ACZ Project ID: **L66632**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66632-01	WG521725	Calcium, dissolved	M200.7 ICP	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.
	WG522956	Chloride	SM4500CI-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).
	WG522398	Cyanide, total	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).
	WG521725	Manganese, dissolved	M200.7 ICP	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.
	WG522199	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).
	WG521865	Residue, Filterable (TDS) @180C	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).
	WG521805	Residue, Non-Filterable (TSS) @105C	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
	WG521725	Sodium, dissolved	M200.7 ICP	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.
L66632-02	WG523091	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07/-11 - TURBIDIMETRIC	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).
	WG521725	Calcium, dissolved	M200.7 ICP	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.
	WG522956	Chloride	SM4500CI-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).
	WG522398	Cyanide, total	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).
	WG521725	Manganese, dissolved	M200.7 ICP	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.
	WG522199	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).
	WG521865	Residue, Filterable (TDS) @180C	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).
	WG521805	Residue, Non-Filterable (TSS) @105C	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
	WG521725	Sodium, dissolved	M200.7 ICP	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.
	WG523091	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07/-11 - TURBIDIMETRIC	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).

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66632-03	WG522956	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).
	WG522398	Cyanide, total	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).
	WG522199	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).
	WG521865	Residue, Filterable (TDS) @180C	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).
	WG521805	Residue, Non-Filterable (TSS) @105C	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).
	WG523091	Sulfate	SM2540D D516-02/-07/-11 - TURBIDIMETRIC D516-02/-07/-11 - TURBIDIMETRIC	Z3 M2 RA	Sample volume yielded a residue less than 2.5 mg Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. 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).
L66632-04	WG522956	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).
	WG521892	Conductivity @25C	SM2510B	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).
	WG522398	Cyanide, total	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).
	WG522199	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).
	WG521865	Residue, Filterable (TDS) @180C	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).
	WG521840	Residue, Non-Filterable (TSS) @105C	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).
	WG523091	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC D516-02/-07/-11 - TURBIDIMETRIC	M2 RA	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. 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).
	WG521892	Total Alkalinity	SM2320B - Titration	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).

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ACZ Project ID: **L66632**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66632-05	WG522956	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).
	WG521892	Conductivity @25C	SM2510B	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).
	WG522398	Cyanide, total	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).
	WG522199	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).
	WG521875	Residue, Filterable (TDS) @180C	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).
	WG521840	Residue, Non-Filterable (TSS) @105C	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
			D516-02/-07/-11 - TURBIDIMETRIC	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
L66632-06	WG522956	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).
	WG521892	Conductivity @25C	SM2510B	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).
	WG522398	Cyanide, total	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).
	WG522199	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).
	WG521875	Residue, Filterable (TDS) @180C	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).
	WG521840	Residue, Non-Filterable (TSS) @105C	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
			D516-02/-07/-11 - TURBIDIMETRIC	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
L66632-07	WG522956	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).
	WG521892	Conductivity @25C	SM2510B	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).
	WG522398	Cyanide, total	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).

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ACZ Project ID: **L66632**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66632-07	WG522956	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).
	WG521892	Conductivity @25C	SM2510B	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).
	WG522398	Cyanide, total	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).
	WG522199	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).
	WG521875	Residue, Filterable (TDS) @180C	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).
	WG521840	Residue, Non-Filterable (TSS) @105C	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
			D516-02/-07/-11 - TURBIDIMETRIC	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
L66632-08	WG522956	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).
	WG521892	Conductivity @25C	SM2510B	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).
	WG522398	Cyanide, total	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).
	WG522199	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).
	WG521875	Residue, Filterable (TDS) @180C	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).
	WG521840	Residue, Non-Filterable (TSS) @105C	SM2540C	Z3	Sample volume yielded a residue less than 2.5 mg
			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
L66632-09	WG523091	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07/-11 - TURBIDIMETRIC	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).
	WG521892	Total Alkalinity	SM2320B - Titration	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).

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ACZ Project ID: **L66632**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L66632

Date Received: 06/18/2021 11:22

Received By:

Date Printed: 6/22/2021

Receipt Verification

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

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	☒	☐	☐
9) Are all labels on containers and are they intact and legible?	☒	☐	☐
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	☐	☒	☐

L66632-06 Container B2419287 (PURPLE): The sample date/time was not present on the sample containers.

L66632-06 Container B2419288 (RAW): The ID on the sample label is GW-3A, and on the COC the ID is GW-3B. The sample ID was entered per the COC.

L66632-06 Container B2419289 (WHITE): The sample date/time was not present on the sample containers.

L66632-06 Container B2419290 (GREEN PC): The sample date/time was not present on the sample containers.

L66632-06 Container B2419291 (YELLOW): The sample date/time was not present on the sample containers.

11) For preserved bottle types, was the pH checked and within limits? ¹	☒	☐	☐
12) Is there sufficient sample volume to perform all requested work?	☒	☐	☐
13) Is the custody seal intact on all containers?	☐	☐	☒
14) Are samples that require zero headspace acceptable?	☐	☐	☒
15) Are all sample containers appropriate for analytical requirements?	☒	☐	☐
16) Is there an Hg-1631 trip blank present?	☐	☐	☒
17) Is there a VOA trip blank present?	☐	☐	☒
18) Were all samples received within hold time?	☒	☐	☐

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Ouray Silver Mines

ACZ Project ID: L66632

Date Received: 06/18/2021 11:22

Received By:

Date Printed: 6/22/2021

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
-----	-----	-----	-----	-----
4828	5.5	<=6.0	15	N/A

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s) but was thawed by receipt at ACZ.

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

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).



Laboratories, Inc.

L 66632

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

CHAIN of CUSTODY

Report to:

Name: Brian Green

Company: Solid Solutions Geosciences

E-mail: brian@solid-solutions-geosciences.com

Address:

Telephone:

Copy of Report to:

Name: Chris Balane

Company: Pure Water Systems

E-mail: purewater_email@gmail.com

Telephone:

Invoice to:

Name: Ashlee Briggs

Company: Occo Silver Mines Inc.

E-mail: aabb@occosilvermines.com

Address:

Telephone:

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



NO



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



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

Sampler's Name: Chris

Sampler's Site Information

State

CO

Zip code

80427

Time Zone

MT

*Sampler's Signature: Chris

*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

ANALYSES REQUESTED (enter "N/A" or test code number)

Quote #: GW

PO#:

Reporting state for compliance testing:

Check box if samples include NRC licensed material?



SAMPLE IDENTIFICATION

DATE:TIME

Matrix

of Containers

Bulkquote

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	Bulkquote															
GW-1A	6/17 800	GW	5	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
GW-1B	6/17 900	GW	5	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
GW-99	6/17 830	GW	5	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
GW-2A	6/17 1115	GW	5	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
GW-2B	6/17 1135	GW	5	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
GW-3B	6/17 1015	GW	5	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
GW-3R	6/17 945	GW	5	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
GW-C	6/17 1200	GW	5	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

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

REMARKS

Sample GW-3B was not filtered
See attached notes regarding updated sample names

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

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Chris	6/17 1445	CPS	6/17 1445
			6/18/21 11:23

FRMAD050.06.14.14

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

L66632 Chain of Custody

July 22, 2021

Report to:

Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Accounts Payable, Chris Bolane

Bill to:

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

Project ID:

ACZ Project ID: L66797

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 29, 2021. This project has been assigned to ACZ's project number, L66797. 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 L66797. 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 August 21, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

July 22, 2021

Project ID:

ACZ Project ID: L66797

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 12 miscellaneous samples from Ouray Silver Mines on June 29, 2021. 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 L66797. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

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. (N1) Total Dissolved Solids.

Oven range is 80 C to 91 C. Over the weekend, the oven had a minor high hit out of range for the temperature. When the oven temperature was checked on Monday 7/6/21, the max temp read at 92.1'C . The WG was removed from the oven on 7/6/21 when the oven was back in range. The WG was examined and there was no splattering of samples.

Ouray Silver Mines

Project ID:

Sample ID: SW-21

ACZ Sample ID: **L66797-01**

Date Sampled: 06/28/21 12:45

Date Received: 06/29/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								07/06/21 18:46	bsu

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0160			mg/L	0.005	0.015	07/13/21 13:34	bsu
Aluminum, total recoverable	M200.8 ICP-MS	1	0.103			mg/L	0.005	0.015	07/09/21 13:00	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00069	B		mg/L	0.0002	0.001	07/13/21 13:34	bsu
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00252			mg/L	0.0002	0.001	07/09/21 13:00	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000512			mg/L	0.00005	0.00025	07/13/21 13:34	bsu
Calcium, dissolved	M200.7 ICP	1	18.7			mg/L	0.1	0.5	07/07/21 17:00	kja
Copper, dissolved	M200.8 ICP-MS	1	0.00139	B		mg/L	0.0008	0.002	07/13/21 13:34	bsu
Iron, dissolved	M200.8 ICP-MS	1	0.0089	B	*	mg/L	0.007	0.02	07/13/21 13:34	bsu
Iron, total recoverable	M200.8 ICP-MS	1	0.136		*	mg/L	0.007	0.02	07/13/21 10:22	mfm
Lead, dissolved	M200.8 ICP-MS	1	0.00036	B		mg/L	0.0001	0.0005	07/13/21 13:34	bsu
Magnesium, dissolved	M200.7 ICP	1	1.43			mg/L	0.2	1	07/07/21 17:00	kja
Manganese, dissolved	M200.7 ICP	1	0.209		*	mg/L	0.01	0.05	07/08/21 18:22	jlw
Mercury, total	M1631E, Atomic Fluorescence	1	1.13			ng/L	0.3	1	07/06/21 11:06	enb
Potassium, dissolved	M200.7 ICP	1	0.33	B		mg/L	0.2	1	07/08/21 18:22	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/13/21 13:34	bsu
Sodium, dissolved	M200.7 ICP	1	1.42			mg/L	0.2	1	07/07/21 17:00	kja
Zinc, dissolved	M200.7 ICP	1	0.110			mg/L	0.02	0.05	07/07/21 17:00	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-21

ACZ Sample ID: **L66797-01**

Date Sampled: 06/28/21 12:45

Date Received: 06/29/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	25.9			mg/L	2	20	07/09/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	07/09/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	07/09/21 0:00	eep
Total Alkalinity		1	25.9			mg/L	2	20	07/09/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	1.4	B	*	mg/L	1	5	07/14/21 6:20	wtc
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-4.3			%			07/21/21 0:00	calc
Sum of Anions			1.2			meq/L			07/21/21 0:00	calc
Sum of Cations			1.1			meq/L			07/21/21 0:00	calc
Chloride	SM4500Cl-E	1	0.53	B	*	mg/L	0.5	2	07/18/21 13:37	wtc
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	07/08/21 18:41	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		53			mg/L	0.2	5	07/21/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.161		*	mg/L	0.02	0.1	07/10/21 1:40	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	82		*	mg/L	20	40	07/02/21 15:44	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	07/02/21 13:48	emk
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	33.3			mg/L	1	5	07/20/21 8:59	syw
TDS (calculated)	Calculation		71.9			mg/L			07/21/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.14						07/21/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW-17

ACZ Sample ID: **L66797-02**

Date Sampled: 06/28/21 08:15

Date Received: 06/29/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								07/06/21 19:43	bsu

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	<0.005	U		mg/L	0.005	0.015	07/13/21 13:35	bsu
Aluminum, total recoverable	M200.8 ICP-MS	1	0.0291			mg/L	0.005	0.015	07/09/21 13:04	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00035	B		mg/L	0.0002	0.001	07/13/21 13:35	bsu
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00046	B		mg/L	0.0002	0.001	07/09/21 13:04	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	07/13/21 13:35	bsu
Calcium, dissolved	M200.7 ICP	1	15.1			mg/L	0.1	0.5	07/07/21 17:03	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	07/13/21 13:35	bsu
Iron, dissolved	M200.8 ICP-MS	1	<0.007	U	*	mg/L	0.007	0.02	07/13/21 13:35	bsu
Iron, total recoverable	M200.8 ICP-MS	2	0.0273	B	*	mg/L	0.014	0.04	07/13/21 10:24	mfm
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/13/21 13:35	bsu
Magnesium, dissolved	M200.7 ICP	1	1.50			mg/L	0.2	1	07/07/21 17:03	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U	*	mg/L	0.01	0.05	07/08/21 18:25	jlw
Mercury, total	M1631E, Atomic Fluorescence	1	4.52			ng/L	0.3	1	07/06/21 11:12	enb
Potassium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	07/08/21 18:25	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/13/21 13:35	bsu
Sodium, dissolved	M200.7 ICP	1	0.74	B		mg/L	0.2	1	07/07/21 17:03	kja
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	07/07/21 17:03	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-17

ACZ Sample ID: **L66797-02**

Date Sampled: 06/28/21 08:15

Date Received: 06/29/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	20.3			mg/L	2	20	07/09/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	07/09/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	07/09/21 0:00	eep
Total Alkalinity		1	20.3			mg/L	2	20	07/09/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	1.2	B	*	mg/L	1	5	07/14/21 6:47	wtc
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-4.7			%			07/21/21 0:00	calc
Sum of Anions			1.0			meq/L			07/21/21 0:00	calc
Sum of Cations			0.911			meq/L			07/21/21 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	07/18/21 13:37	wtc
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	07/08/21 18:45	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		44			mg/L	0.2	5	07/21/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.157		*	mg/L	0.02	0.1	07/10/21 1:42	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	64		*	mg/L	20	40	07/02/21 15:46	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	07/02/21 14:39	emk
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	28.3			mg/L	1	5	07/20/21 8:59	syw
TDS (calculated)	Calculation		58			mg/L			07/21/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.10						07/21/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW-15

ACZ Sample ID: **L66797-03**

Date Sampled: 06/28/21 10:07

Date Received: 06/29/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								07/06/21 20:41	bsu

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0147	B		mg/L	0.005	0.015	07/13/21 13:37	bsu
Aluminum, total recoverable	M200.8 ICP-MS	1	0.125			mg/L	0.005	0.015	07/09/21 13:06	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00042	B		mg/L	0.0002	0.001	07/13/21 13:37	bsu
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00386			mg/L	0.0002	0.001	07/09/21 13:06	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000742			mg/L	0.00005	0.00025	07/13/21 13:37	bsu
Calcium, dissolved	M200.7 ICP	1	16.1			mg/L	0.1	0.5	07/07/21 17:06	kja
Copper, dissolved	M200.8 ICP-MS	1	0.00170	B		mg/L	0.0008	0.002	07/13/21 13:37	bsu
Iron, dissolved	M200.8 ICP-MS	1	0.0096	B	*	mg/L	0.007	0.02	07/13/21 13:37	bsu
Iron, total recoverable	M200.8 ICP-MS	1	0.231		*	mg/L	0.007	0.02	07/13/21 10:25	mfm
Lead, dissolved	M200.8 ICP-MS	1	0.00032	B		mg/L	0.0001	0.0005	07/13/21 13:37	bsu
Magnesium, dissolved	M200.7 ICP	1	1.50			mg/L	0.2	1	07/07/21 17:06	kja
Manganese, dissolved	M200.7 ICP	1	0.405		*	mg/L	0.01	0.05	07/08/21 18:28	jlw
Mercury, total	M1631E, Atomic Fluorescence	1	1.56			ng/L	0.3	1	07/06/21 11:16	enb
Potassium, dissolved	M200.7 ICP	1	0.36	B		mg/L	0.2	1	07/08/21 18:28	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/13/21 13:37	bsu
Sodium, dissolved	M200.7 ICP	1	1.09			mg/L	0.2	1	07/07/21 17:06	kja
Zinc, dissolved	M200.7 ICP	1	0.157			mg/L	0.02	0.05	07/07/21 17:06	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-15

ACZ Sample ID: **L66797-03**

Date Sampled: 06/28/21 10:07

Date Received: 06/29/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	21.5			mg/L	2	20	07/09/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	07/09/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	07/09/21 0:00	eep
Total Alkalinity		1	21.5			mg/L	2	20	07/09/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	<1	U	*	mg/L	1	5	07/16/21 0:12	wtc
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-4.8			%			07/21/21 0:00	calc
Sum of Anions			1.1			meq/L			07/21/21 0:00	calc
Sum of Cations			1.0			meq/L			07/21/21 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	07/18/21 13:37	wtc
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	07/08/21 18:49	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		46			mg/L	0.2	5	07/21/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.128		*	mg/L	0.02	0.1	07/10/21 1:45	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	70		*	mg/L	20	40	07/02/21 15:48	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	07/02/21 14:41	emk
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	32.6			mg/L	1	5	07/20/21 8:59	syw
TDS (calculated)	Calculation		65.4			mg/L			07/21/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.07						07/21/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW-99

ACZ Sample ID: **L66797-04**

Date Sampled: 06/28/21 10:30

Date Received: 06/29/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								07/06/21 21:39	bsu

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0131	B		mg/L	0.005	0.015	07/13/21 13:39	bsu
Aluminum, total recoverable	M200.8 ICP-MS	1	0.142			mg/L	0.005	0.015	07/09/21 13:08	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00041	B		mg/L	0.0002	0.001	07/13/21 13:39	bsu
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00450			mg/L	0.0002	0.001	07/09/21 13:08	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000789			mg/L	0.00005	0.00025	07/13/21 13:39	bsu
Calcium, dissolved	M200.7 ICP	1	16.1			mg/L	0.1	0.5	07/07/21 17:10	kja
Copper, dissolved	M200.8 ICP-MS	1	0.00178	B		mg/L	0.0008	0.002	07/13/21 13:39	bsu
Iron, dissolved	M200.8 ICP-MS	1	0.0085	B	*	mg/L	0.007	0.02	07/13/21 13:39	bsu
Iron, total recoverable	M200.8 ICP-MS	1	0.263		*	mg/L	0.007	0.02	07/13/21 10:27	mfm
Lead, dissolved	M200.8 ICP-MS	1	0.00028	B		mg/L	0.0001	0.0005	07/13/21 13:39	bsu
Magnesium, dissolved	M200.7 ICP	1	1.52			mg/L	0.2	1	07/07/21 17:10	kja
Manganese, dissolved	M200.7 ICP	1	0.472		*	mg/L	0.01	0.05	07/08/21 18:31	jlw
Mercury, total	M1631E, Atomic Fluorescence	1	0.93	B		ng/L	0.3	1	07/06/21 11:31	enb
Potassium, dissolved	M200.7 ICP	1	0.53	B		mg/L	0.2	1	07/08/21 18:31	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/13/21 13:39	bsu
Sodium, dissolved	M200.7 ICP	1	1.09			mg/L	0.2	1	07/07/21 17:10	kja
Zinc, dissolved	M200.7 ICP	1	0.160			mg/L	0.02	0.05	07/07/21 17:10	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-99

ACZ Sample ID: **L66797-04**

Date Sampled: 06/28/21 10:30

Date Received: 06/29/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	20.7			mg/L	2	20	07/09/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	07/09/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	07/09/21 0:00	eep
Total Alkalinity		1	20.7			mg/L	2	20	07/09/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	1.1	B	*	mg/L	1	5	07/16/21 0:35	wtc
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-4.8			%			07/21/21 0:00	calc
Sum of Anions			1.1			meq/L			07/21/21 0:00	calc
Sum of Cations			1.0			meq/L			07/21/21 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	07/18/21 13:37	wtc
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	07/08/21 18:52	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		47			mg/L	0.2	5	07/21/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.129		*	mg/L	0.02	0.1	07/10/21 1:46	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	76		*	mg/L	20	40	07/02/21 15:50	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	07/02/21 14:43	emk
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	32.5			mg/L	1	5	07/20/21 8:59	syw
TDS (calculated)	Calculation		65			mg/L			07/21/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.17						07/21/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW-16

ACZ Sample ID: **L66797-05**

Date Sampled: 06/28/21 09:05

Date Received: 06/29/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								07/06/21 22:36	bsu

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0083	B		mg/L	0.005	0.015	07/13/21 13:41	bsu
Aluminum, total recoverable	M200.8 ICP-MS	1	0.0747			mg/L	0.005	0.015	07/09/21 13:09	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00039	B		mg/L	0.0002	0.001	07/13/21 13:41	bsu
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00283			mg/L	0.0002	0.001	07/09/21 13:09	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000498			mg/L	0.00005	0.00025	07/13/21 13:41	bsu
Calcium, dissolved	M200.7 ICP	1	15.8			mg/L	0.1	0.5	07/07/21 17:19	kja
Copper, dissolved	M200.8 ICP-MS	1	0.00090	B		mg/L	0.0008	0.002	07/13/21 13:41	bsu
Iron, dissolved	M200.8 ICP-MS	1	<0.007	U	*	mg/L	0.007	0.02	07/13/21 13:41	bsu
Iron, total recoverable	M200.8 ICP-MS	1	0.152		*	mg/L	0.007	0.02	07/13/21 10:29	mfm
Lead, dissolved	M200.8 ICP-MS	1	0.00020	B		mg/L	0.0001	0.0005	07/13/21 13:41	bsu
Magnesium, dissolved	M200.7 ICP	1	1.52			mg/L	0.2	1	07/07/21 17:19	kja
Manganese, dissolved	M200.7 ICP	1	0.265		*	mg/L	0.01	0.05	07/08/21 18:41	jlw
Mercury, total	M1631E, Atomic Fluorescence	1	0.65	B		ng/L	0.3	1	07/06/21 11:35	enb
Potassium, dissolved	M200.7 ICP	1	0.24	B		mg/L	0.2	1	07/08/21 18:41	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/13/21 13:41	bsu
Sodium, dissolved	M200.7 ICP	1	1.03			mg/L	0.2	1	07/07/21 17:19	kja
Zinc, dissolved	M200.7 ICP	1	0.105			mg/L	0.02	0.05	07/07/21 17:19	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-16

ACZ Sample ID: **L66797-05**

Date Sampled: 06/28/21 09:05

Date Received: 06/29/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	21.3			mg/L	2	20	07/09/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	07/09/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	07/09/21 0:00	eep
Total Alkalinity		1	21.3			mg/L	2	20	07/09/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	<1	U	*	mg/L	1	5	07/16/21 1:02	wtc
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-4.8			%			07/21/21 0:00	calc
Sum of Anions			1.1			meq/L			07/21/21 0:00	calc
Sum of Cations			1			meq/L			07/21/21 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	07/18/21 13:37	wtc
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	07/08/21 19:00	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		46			mg/L	0.2	5	07/21/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.141		*	mg/L	0.02	0.1	07/10/21 1:47	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	72		*	mg/L	20	40	07/02/21 15:52	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	07/02/21 14:45	emk
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	31.5			mg/L	1	5	07/20/21 8:59	syw
TDS (calculated)	Calculation		63.5			mg/L			07/21/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.13						07/21/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW-2

ACZ Sample ID: **L66797-06**

Date Sampled: 06/28/21 11:20

Date Received: 06/29/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								07/06/21 23:34	bsu

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0130	B		mg/L	0.005	0.015	07/13/21 13:43	bsu
Aluminum, total recoverable	M200.8 ICP-MS	1	0.120			mg/L	0.005	0.015	07/09/21 13:11	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00046	B		mg/L	0.0002	0.001	07/13/21 13:43	bsu
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00340			mg/L	0.0002	0.001	07/09/21 13:11	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000726			mg/L	0.00005	0.00025	07/13/21 13:43	bsu
Calcium, dissolved	M200.7 ICP	1	17.1			mg/L	0.1	0.5	07/07/21 17:22	kja
Copper, dissolved	M200.8 ICP-MS	1	0.00185	B		mg/L	0.0008	0.002	07/13/21 13:43	bsu
Iron, dissolved	M200.8 ICP-MS	1	0.0094	B	*	mg/L	0.007	0.02	07/13/21 13:43	bsu
Iron, total recoverable	M200.8 ICP-MS	1	0.216		*	mg/L	0.007	0.02	07/13/21 10:31	mfm
Lead, dissolved	M200.8 ICP-MS	1	0.00030	B		mg/L	0.0001	0.0005	07/13/21 13:43	bsu
Magnesium, dissolved	M200.7 ICP	1	1.52			mg/L	0.2	1	07/07/21 17:22	kja
Manganese, dissolved	M200.7 ICP	1	0.356		*	mg/L	0.01	0.05	07/08/21 18:44	jlw
Mercury, total	M1631E, Atomic Fluorescence	1	0.86	B		ng/L	0.3	1	07/06/21 11:40	enb
Potassium, dissolved	M200.7 ICP	1	0.27	B		mg/L	0.2	1	07/08/21 18:44	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/13/21 13:43	bsu
Sodium, dissolved	M200.7 ICP	1	1.20			mg/L	0.2	1	07/07/21 17:22	kja
Zinc, dissolved	M200.7 ICP	1	0.166			mg/L	0.02	0.05	07/07/21 17:22	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-2

ACZ Sample ID: **L66797-06**

Date Sampled: 06/28/21 11:20

Date Received: 06/29/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	22.0			mg/L	2	20	07/09/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	07/09/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	07/09/21 0:00	eep
Total Alkalinity		1	22.0			mg/L	2	20	07/09/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	1.1	B	*	mg/L	1	5	07/16/21 1:12	wtc
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-4.3			%			07/21/21 0:00	calc
Sum of Anions			1.2			meq/L			07/21/21 0:00	calc
Sum of Cations			1.1			meq/L			07/21/21 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	07/18/21 13:37	wtc
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	07/08/21 19:04	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		49.0			mg/L	0.2	5	07/21/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.137		*	mg/L	0.02	0.1	07/10/21 1:49	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	76		*	mg/L	20	40	07/02/21 15:54	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	07/02/21 14:47	emk
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	33.6			mg/L	1	5	07/20/21 8:59	syw
TDS (calculated)	Calculation		67.7			mg/L			07/21/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.12						07/21/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW-4

ACZ Sample ID: **L66797-07**

Date Sampled: 06/28/21 12:00

Date Received: 06/29/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								07/07/21 0:31	bsu

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0129	B		mg/L	0.005	0.015	07/13/21 13:44	bsu
Aluminum, total recoverable	M200.8 ICP-MS	1	0.119			mg/L	0.005	0.015	07/09/21 13:13	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00053	B		mg/L	0.0002	0.001	07/13/21 13:44	bsu
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00323			mg/L	0.0002	0.001	07/09/21 13:13	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000705			mg/L	0.00005	0.00025	07/13/21 13:44	bsu
Calcium, dissolved	M200.7 ICP	1	19.5			mg/L	0.1	0.5	07/07/21 17:26	kja
Copper, dissolved	M200.8 ICP-MS	1	0.00165	B		mg/L	0.0008	0.002	07/13/21 13:44	bsu
Iron, dissolved	M200.8 ICP-MS	1	0.0079	B	*	mg/L	0.007	0.02	07/13/21 13:44	bsu
Iron, total recoverable	M200.8 ICP-MS	1	0.188		*	mg/L	0.007	0.02	07/13/21 10:33	mfm
Lead, dissolved	M200.8 ICP-MS	1	0.00032	B		mg/L	0.0001	0.0005	07/13/21 13:44	bsu
Magnesium, dissolved	M200.7 ICP	1	1.57			mg/L	0.2	1	07/07/21 17:26	kja
Manganese, dissolved	M200.7 ICP	1	0.331		*	mg/L	0.01	0.05	07/08/21 18:48	jlw
Mercury, total	M1631E, Atomic Fluorescence	1	1.15			ng/L	0.3	1	07/06/21 11:55	enb
Potassium, dissolved	M200.7 ICP	1	0.34	B		mg/L	0.2	1	07/08/21 18:48	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/13/21 13:44	bsu
Sodium, dissolved	M200.7 ICP	1	1.53			mg/L	0.2	1	07/07/21 17:26	kja
Zinc, dissolved	M200.7 ICP	1	0.162			mg/L	0.02	0.05	07/07/21 17:26	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-4

ACZ Sample ID: **L66797-07**

Date Sampled: 06/28/21 12:00

Date Received: 06/29/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	25.5			mg/L	2	20	07/09/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	07/09/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	07/09/21 0:00	eep
Total Alkalinity		1	25.5			mg/L	2	20	07/09/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	1.2	B	*	mg/L	1	5	07/16/21 1:22	wtc
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-4.0			%			07/21/21 0:00	calc
Sum of Anions			1.3			meq/L			07/21/21 0:00	calc
Sum of Cations			1.2			meq/L			07/21/21 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	07/18/21 13:37	wtc
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	07/08/21 19:20	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		55			mg/L	0.2	5	07/21/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.190		*	mg/L	0.02	0.1	07/10/21 1:50	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	90		*	mg/L	20	40	07/02/21 15:55	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	6.0	B	*	mg/L	5	20	07/02/21 14:49	emk
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	36.7			mg/L	1	5	07/20/21 8:59	syw
TDS (calculated)	Calculation		75.7			mg/L			07/21/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.19						07/21/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW-1

ACZ Sample ID: **L66797-08**

Date Sampled: 06/28/21 13:50

Date Received: 06/29/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								07/07/21 1:29	bsu

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0090	B		mg/L	0.005	0.015	07/13/21 13:50	bsu
Aluminum, total recoverable	M200.8 ICP-MS	1	0.0358			mg/L	0.005	0.015	07/09/21 13:15	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00089	B		mg/L	0.0002	0.001	07/13/21 13:50	bsu
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00176			mg/L	0.0002	0.001	07/09/21 13:15	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000506			mg/L	0.00005	0.00025	07/13/21 13:50	bsu
Calcium, dissolved	M200.7 ICP	1	18.7			mg/L	0.1	0.5	07/07/21 17:35	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	07/13/21 13:50	bsu
Iron, dissolved	M200.8 ICP-MS	1	0.0124	B	*	mg/L	0.007	0.02	07/13/21 13:50	bsu
Iron, total recoverable	M200.8 ICP-MS	1	0.109		*	mg/L	0.007	0.02	07/13/21 10:34	mfm
Lead, dissolved	M200.8 ICP-MS	1	0.00012	B		mg/L	0.0001	0.0005	07/13/21 13:50	bsu
Magnesium, dissolved	M200.7 ICP	1	0.89	B		mg/L	0.2	1	07/07/21 17:35	kja
Manganese, dissolved	M200.7 ICP	1	0.225		*	mg/L	0.01	0.05	07/08/21 18:57	jlw
Mercury, total	M1631E, Atomic Fluorescence	1	0.69	B		ng/L	0.3	1	07/06/21 11:59	enb
Potassium, dissolved	M200.7 ICP	1	0.24	B		mg/L	0.2	1	07/08/21 18:57	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/13/21 13:50	bsu
Sodium, dissolved	M200.7 ICP	1	1.55			mg/L	0.2	1	07/07/21 17:35	kja
Zinc, dissolved	M200.7 ICP	1	0.175			mg/L	0.02	0.05	07/07/21 17:35	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-1

ACZ Sample ID: **L66797-08**

Date Sampled: 06/28/21 13:50

Date Received: 06/29/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	26.2			mg/L	2	20	07/09/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	07/09/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	07/09/21 0:00	eep
Total Alkalinity		1	26.2			mg/L	2	20	07/09/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	1.2	B	*	mg/L	1	5	07/16/21 1:32	wtc
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-4.3			%			07/21/21 0:00	calc
Sum of Anions			1.2			meq/L			07/21/21 0:00	calc
Sum of Cations			1.1			meq/L			07/21/21 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	07/18/21 13:38	wtc
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	07/08/21 19:39	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		50			mg/L	0.2	5	07/21/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.189		*	mg/L	0.02	0.1	07/10/21 1:55	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	84		*	mg/L	20	40	07/02/21 17:54	sdc
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	07/02/21 14:51	emk
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	32.2			mg/L	1	5	07/20/21 9:01	syw
TDS (calculated)	Calculation		70			mg/L			07/21/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.20						07/21/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW-3

ACZ Sample ID: **L66797-09**

Date Sampled: 06/28/21 14:15

Date Received: 06/29/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								07/07/21 2:27	bsu

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	<0.005	U		mg/L	0.005	0.015	07/13/21 13:55	bsu
Aluminum, total recoverable	M200.8 ICP-MS	1	0.0374			mg/L	0.005	0.015	07/09/21 13:20	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00074	B		mg/L	0.0002	0.001	07/13/21 13:55	bsu
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00079	B		mg/L	0.0002	0.001	07/09/21 13:20	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000234	B		mg/L	0.00005	0.00025	07/13/21 13:55	bsu
Calcium, dissolved	M200.7 ICP	1	34.0			mg/L	0.1	0.5	07/07/21 17:39	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	07/13/21 13:55	bsu
Iron, dissolved	M200.8 ICP-MS	1	<0.007	U	*	mg/L	0.007	0.02	07/13/21 13:55	bsu
Iron, total recoverable	M200.8 ICP-MS	1	0.0267		*	mg/L	0.007	0.02	07/13/21 10:40	mfm
Lead, dissolved	M200.8 ICP-MS	1	0.00021	B		mg/L	0.0001	0.0005	07/13/21 13:55	bsu
Magnesium, dissolved	M200.7 ICP	1	1.95			mg/L	0.2	1	07/07/21 17:39	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U	*	mg/L	0.01	0.05	07/08/21 19:00	jlw
Mercury, total	M1631E, Atomic Fluorescence	1	1.12			ng/L	0.3	1	07/06/21 12:04	enb
Potassium, dissolved	M200.7 ICP	1	0.58	B		mg/L	0.2	1	07/08/21 19:00	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/13/21 13:55	bsu
Sodium, dissolved	M200.7 ICP	1	3.42			mg/L	0.2	1	07/07/21 17:39	kja
Zinc, dissolved	M200.7 ICP	1	0.149			mg/L	0.02	0.05	07/07/21 17:39	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-3

ACZ Sample ID: **L66797-09**

Date Sampled: 06/28/21 14:15

Date Received: 06/29/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	35.9			mg/L	2	20	07/09/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	07/09/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	07/09/21 0:00	eep
Total Alkalinity		1	35.9			mg/L	2	20	07/09/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	1.1	B	*	mg/L	1	5	07/16/21 2:06	wtc
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			07/21/21 0:00	calc
Sum of Anions			2			meq/L			07/21/21 0:00	calc
Sum of Cations			2.0			meq/L			07/21/21 0:00	calc
Chloride	SM4500Cl-E	1	2.10		*	mg/L	0.5	2	07/18/21 13:38	wtc
Fluoride	SM4500F-C	1	0.18	B		mg/L	0.15	0.35	07/08/21 19:47	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		93			mg/L	0.2	5	07/21/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	<0.02	U	*	mg/L	0.02	0.1	07/10/21 1:57	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	148		*	mg/L	20	40	07/02/21 17:56	scd
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	07/02/21 14:53	emk
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	56.9			mg/L	5	25	07/20/21 9:08	syw
TDS (calculated)	Calculation		121			mg/L			07/21/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.22						07/21/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW-0

ACZ Sample ID: **L66797-10**

Date Sampled: 06/28/21 14:50

Date Received: 06/29/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								07/07/21 3:24	bsu

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	<0.005	U		mg/L	0.005	0.015	07/13/21 13:57	bsu
Aluminum, total recoverable	M200.8 ICP-MS	1	<0.005	U		mg/L	0.005	0.015	07/09/21 13:22	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	07/13/21 13:57	bsu
Arsenic, total recoverable	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	07/09/21 13:22	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	07/13/21 13:57	bsu
Calcium, dissolved	M200.7 ICP	1	0.13	B		mg/L	0.1	0.5	07/07/21 17:42	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	07/13/21 13:57	bsu
Iron, dissolved	M200.8 ICP-MS	1	<0.007	U	*	mg/L	0.007	0.02	07/13/21 13:57	bsu
Iron, total recoverable	M200.8 ICP-MS	1	<0.007	U	*	mg/L	0.007	0.02	07/09/21 13:22	mfm
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/13/21 13:57	bsu
Magnesium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	07/07/21 17:42	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U	*	mg/L	0.01	0.05	07/08/21 19:04	jlw
Mercury, total	M1631E, Atomic Fluorescence	1	<0.3	U		ng/L	0.3	1	07/06/21 12:09	enb
Potassium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	07/08/21 19:04	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/13/21 13:57	bsu
Sodium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	07/07/21 17:42	kja
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	07/07/21 17:42	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-0

ACZ Sample ID: **L66797-10**

Date Sampled: 06/28/21 14:50

Date Received: 06/29/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	<2	U		mg/L	2	20	07/09/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	07/09/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	07/09/21 0:00	eep
Total Alkalinity		1	<2	U	*	mg/L	2	20	07/09/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	1.1	B	*	mg/L	1	5	07/16/21 2:16	wtc
Cation-Anion Balance	Calculation									
Cation-Anion Balance			n/a			%			07/21/21 0:00	calc
Sum of Anions			<	U		meq/L			07/21/21 0:00	calc
Sum of Cations			<	U		meq/L			07/21/21 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	07/18/21 13:38	wtc
Fluoride	SM4500F-C	1	<0.15	U	*	mg/L	0.15	0.35	07/08/21 19:59	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		0.325	B		mg/L	0.2	5	07/21/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	<0.02	U	*	mg/L	0.02	0.1	07/10/21 1:58	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	<20	U	*	mg/L	20	40	07/02/21 17:58	sdc
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	07/02/21 14:55	emk
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	<1	U		mg/L	1	5	07/20/21 9:01	syw
TDS (calculated)	Calculation		0.13			mg/L			07/21/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		n/a						07/21/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: TRIP BLANK

ACZ Sample ID: **L66797-11**

Date Sampled: 06/28/21 00:00

Date Received: 06/29/21

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Mercury, total	M1631E, Atomic Fluorescence	1	<0.3	U		ng/L	0.3	1	07/06/21 12:14	enb

Ouray Silver Mines

Project ID:

Sample ID: TRIP BLANK

ACZ Sample ID: **L66797-12**

Date Sampled: 06/28/21 00:00

Date Received: 06/29/21

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Mercury, total	M1631E, Atomic Fluorescence	1	<0.3	U	*	ng/L	0.3	1	07/06/21 12:23	enb



Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L66797**

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
WG522795													
WG522795PBW1	PBW	07/08/21 20:23				2.3	mg/L		-20	20			
WG522795LCSW3	LCSW	07/08/21 20:43	WC210702-1	820.0001		818.4	mg/L	100	90	110			
WG522795LCSW6	LCSW	07/09/21 0:00	WC210702-1	820.0001		822.5	mg/L	100	90	110			
WG522795PBW2	PBW	07/09/21 0:07				U	mg/L		-20	20			
L66797-01DUP	DUP	07/09/21 2:46			25.9	26.4	mg/L				2	20	
WG522795LCSW9	LCSW	07/09/21 3:06	WC210702-1	820.0001		823	mg/L	100	90	110			
WG522795PBW3	PBW	07/09/21 3:13				U	mg/L		-20	20			
L66797-10DUP	DUP	07/09/21 4:32			U	U	mg/L				0	20	RA
WG522795LCSW12	LCSW	07/09/21 6:27	WC210702-1	820.0001		823.6	mg/L	100	90	110			
WG522795PBW4	PBW	07/09/21 6:34				U	mg/L		-20	20			
WG522795LCSW15	LCSW	07/09/21 10:04	WC210702-1	820.0001		828.4	mg/L	101	90	110			

Aluminum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523052													
WG523052ICV	ICV	07/13/21 13:12	MS210630-2	.1		.1005	mg/L	101	90	110			
WG523052ICB	ICB	07/13/21 13:14				U	mg/L		-0.011	0.011			
WG523052LFB	LFB	07/13/21 13:16	MS210702-2	.050065		.0514	mg/L	103	85	115			
L66782-02AS	AS	07/13/21 13:21	MS210702-2	.050065	.0197	.0688	mg/L	98	70	130			
L66782-02ASD	ASD	07/13/21 13:23	MS210702-2	.050065	.0197	.0698	mg/L	100	70	130	1	20	
L66797-07AS	AS	07/13/21 13:46	MS210702-2	.050065	.0129	.0628	mg/L	100	70	130			
L66797-07ASD	ASD	07/13/21 13:48	MS210702-2	.050065	.0129	.0637	mg/L	101	70	130	1	20	

Aluminum, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522853													
WG522853ICV	ICV	07/09/21 12:32	MS210630-2	.1		.1009	mg/L	101	90	110			
WG522853ICB	ICB	07/09/21 12:33				U	mg/L		-0.015	0.015			
WG522537LRB	LRB	07/09/21 12:35				U	mg/L		-0.011	0.011			
WG522537LFB	LFB	07/09/21 12:37	MS210702-2	.050065		.0518	mg/L	103	85	115			
L66749-03LFB	LFB	07/09/21 12:42	MS210702-2	.050065	.0512	.0951	mg/L	88	70	130			
L66749-03LFMD	LFMD	07/09/21 12:44	MS210702-2	.050065	.0512	.0965	mg/L	90	70	130	1	20	
L66828-01LFB	LFB	07/09/21 13:25	MS210702-2	.050065	.574	.6211	mg/L	94	70	130			
L66828-01LFMD	LFMD	07/09/21 13:27	MS210702-2	.050065	.574	.6233	mg/L	98	70	130	0	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523052													
WG523052ICV	ICV	07/13/21 13:12	MS210630-2	.05		.04949	mg/L	99	90	110			
WG523052ICB	ICB	07/13/21 13:14				U	mg/L		-0.00044	0.00044			
WG523052LFB	LFB	07/13/21 13:16	MS210702-2	.05005		.05007	mg/L	100	85	115			
L66782-02AS	AS	07/13/21 13:21	MS210702-2	.05005	.00072	.05159	mg/L	102	70	130			
L66782-02ASD	ASD	07/13/21 13:23	MS210702-2	.05005	.00072	.05068	mg/L	100	70	130	2	20	
L66797-07AS	AS	07/13/21 13:46	MS210702-2	.05005	.00053	.05128	mg/L	101	70	130			
L66797-07ASD	ASD	07/13/21 13:48	MS210702-2	.05005	.00053	.05227	mg/L	103	70	130	2	20	

Ouray Silver Mines

ACZ Project ID: **L66797**

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.

Arsenic, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522853													
WG522853ICV	ICV	07/09/21 12:32	MS210630-2	.05		.04904	mg/L	98	90	110			
WG522853ICB	ICB	07/09/21 12:33				U	mg/L		-0.0006	0.0006			
WG522537LRB	LRB	07/09/21 12:35				U	mg/L		-0.00044	0.00044			
WG522537LFB	LFB	07/09/21 12:37	MS210702-2	.05005		.04768	mg/L	95	85	115			
L66749-03LFM	LFM	07/09/21 12:42	MS210702-2	.05005	.00024	.04486	mg/L	89	70	130			
L66749-03LFMD	LFMD	07/09/21 12:44	MS210702-2	.05005	.00024	.04882	mg/L	97	70	130	8	20	
L66828-01LFM	LFM	07/09/21 13:25	MS210702-2	.05005	.00035	.04522	mg/L	90	70	130			
L66828-01LFMD	LFMD	07/09/21 13:27	MS210702-2	.05005	.00035	.04532	mg/L	90	70	130	0	20	

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523052													
WG523052ICV	ICV	07/13/21 13:12	MS210630-2	.05		.050599	mg/L	101	90	110			
WG523052ICB	ICB	07/13/21 13:14				U	mg/L		-0.00011	0.00011			
WG523052LFB	LFB	07/13/21 13:16	MS210702-2	.05005		.049956	mg/L	100	85	115			
L66782-02AS	AS	07/13/21 13:21	MS210702-2	.05005	U	.048604	mg/L	97	70	130			
L66782-02ASD	ASD	07/13/21 13:23	MS210702-2	.05005	U	.048774	mg/L	97	70	130	0	20	
L66797-07AS	AS	07/13/21 13:46	MS210702-2	.05005	.000705	.050141	mg/L	99	70	130			
L66797-07ASD	ASD	07/13/21 13:48	MS210702-2	.05005	.000705	.051329	mg/L	101	70	130	2	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522664													
WG522664ICV	ICV	07/07/21 16:38	II210628-1	100		100.55	mg/L	101	95	105			
WG522664ICB	ICB	07/07/21 16:44				U	mg/L		-0.3	0.3			
WG522664LFB	LFB	07/07/21 16:57	II210622-2	67.98753		68.09	mg/L	100	85	115			
L66797-04AS	AS	07/07/21 17:13	II210622-2	67.98753	16.1	83.11	mg/L	99	85	115			
L66797-04ASD	ASD	07/07/21 17:16	II210622-2	67.98753	16.1	82.81	mg/L	98	85	115	0	20	

Carbon, dissolved organic (DOC)

SM5310B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519681													
WG519681ICV	ICV	05/21/21 18:53	WI210521-3	100		101.3	mg/L	101	90	110			
WG519681ICB	ICB	05/21/21 19:05				U	mg/L		-3	3			
WG523107													
WG523107LFB	LFB	07/14/21 1:21	WI210128-1	50		51.8	mg/L	104	90	110			
L66797-01AS	AS	07/14/21 6:33	WI210128-1	50	1.4	53.5	mg/L	104	90	110			
L66797-02DUP	DUP	07/14/21 6:57			1.2	1.3	mg/L				8	20	RA
WG523325													
WG523325LFB	LFB	07/15/21 23:58	WI210128-1	50		52.4	mg/L	105	90	110			
L66797-03DUP	DUP	07/16/21 0:25			U	U	mg/L				0	20	RA
L66797-04AS	AS	07/16/21 0:47	WI210128-1	50	1.1	52.6	mg/L	103	90	110			

Ouray Silver Mines

ACZ Project ID: **L66797**

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.

Chloride

SM4500CI-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523434													
WG523434ICB	ICB	07/18/21 12:36				U	mg/L		-1.5	1.5			
WG523434ICV	ICV	07/18/21 12:37	WI210503-1	54.89		54.28	mg/L	99	90	110			
WG523434LFB1	LFB	07/18/21 13:37	WI200327-3	30.03		31.38	mg/L	104	90	110			
L66797-01DUP	DUP	07/18/21 13:37			.53	.53	mg/L				0	20	RA
L66797-02AS	AS	07/18/21 13:37	WI200327-3	30.03	U	31.49	mg/L	105	90	110			
WG523434LFB2	LFB	07/18/21 13:40	WI200327-3	30.03		31.8	mg/L	106	90	110			

Copper, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523052													
WG523052ICV	ICV	07/13/21 13:12	MS210630-2	.05		.05043	mg/L	101	90	110			
WG523052ICB	ICB	07/13/21 13:14				U	mg/L		-0.00176	0.00176			
WG523052LFB	LFB	07/13/21 13:16	MS210702-2	.05		.04941	mg/L	99	85	115			
L66782-02AS	AS	07/13/21 13:21	MS210702-2	.05	U	.04694	mg/L	94	70	130			
L66782-02ASD	ASD	07/13/21 13:23	MS210702-2	.05	U	.0465	mg/L	93	70	130	1	20	
L66797-07AS	AS	07/13/21 13:46	MS210702-2	.05	.00165	.05033	mg/L	97	70	130			
L66797-07ASD	ASD	07/13/21 13:48	MS210702-2	.05	.00165	.05597	mg/L	109	70	130	11	20	

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522750													
WG522750ICV	ICV	07/08/21 16:14	WC210703-1	2.002		2.01	mg/L	100	90	110			
WG522750ICB	ICB	07/08/21 16:18				U	mg/L		-0.3	0.3			
WG522750LFB1	LFB	07/08/21 16:25	WC201221-2	5.015		4.98	mg/L	99	90	110			
L66797-07AS	AS	07/08/21 19:28	WC201221-2	5.015	U	5.14	mg/L	102	90	110			
L66797-07ASD	ASD	07/08/21 19:31	WC201221-2	5.015	U	5.09	mg/L	101	90	110	1	20	
WG522750LFB2	LFB	07/08/21 19:51	WC201221-2	5.015		5.09	mg/L	101	90	110			
L66800-04AS	AS	07/08/21 20:53	WC201221-2	5.015	15.1	16.68	mg/L	32	90	110			M2
L66800-04ASD	ASD	07/08/21 21:01	WC201221-2	5.015	15.1	17.56	mg/L	49	90	110	5	20	M2

Iron, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523052													
WG523052ICV	ICV	07/13/21 13:12	MS210630-2	.10016		.1007	mg/L	101	90	110			
WG523052ICB	ICB	07/13/21 13:14				U	mg/L		-0.0154	0.0154			
WG523052LFB	LFB	07/13/21 13:16	MS210702-2	.0501		.0503	mg/L	100	85	115			
L66782-02AS	AS	07/13/21 13:21	MS210702-2	.0501	.0646	.1117	mg/L	94	70	130			
L66782-02ASD	ASD	07/13/21 13:23	MS210702-2	.0501	.0646	.1117	mg/L	94	70	130	0	20	
L66797-07AS	AS	07/13/21 13:46	MS210702-2	.0501	.0079	.0564	mg/L	97	70	130			
L66797-07ASD	ASD	07/13/21 13:48	MS210702-2	.0501	.0079	.0581	mg/L	100	70	130	3	20	

Ouray Silver Mines

ACZ Project ID: **L66797**

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, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522853													
WG522853ICV	ICV	07/09/21 12:32	MS210630-2	.10016		.1035	mg/L	103	90	110			
WG522853ICB	ICB	07/09/21 12:33				U	mg/L		-0.021	0.021			
WG522537LRB	LRB	07/09/21 12:35				U	mg/L		-0.0154	0.0154			
WG522537LFB	LFB	07/09/21 12:37	MS210702-2	.0501		.0634	mg/L	127	85	115			LA
L66749-03LFM	LFM	07/09/21 12:42	MS210702-2	.0501	.0358	.079	mg/L	86	70	130			
L66749-03LFMD	LFMD	07/09/21 12:44	MS210702-2	.0501	.0358	.0856	mg/L	99	70	130	8	20	
L66828-01LFM	LFM	07/09/21 13:25	MS210702-2	.0501	.0679	.104	mg/L	72	70	130			
L66828-01LFMD	LFMD	07/09/21 13:27	MS210702-2	.0501	.0679	.1046	mg/L	73	70	130	1	20	

WG523055

WG523055ICV	ICV	07/13/21 9:51	MS210630-2	.10016		.0994	mg/L	99	90	110			
WG523055ICB	ICB	07/13/21 9:53				U	mg/L		-0.021	0.021			
WG522537LRB	LRB	07/13/21 9:55				U	mg/L		-0.0154	0.0154			
WG522537LFB	LFB	07/13/21 9:56	MS210702-2	.0501		.0577	mg/L	115	85	115			
L66749-03LFM	LFM	07/13/21 10:04	MS210702-2	.0501	.0341	.0746	mg/L	81	70	130			
L66749-03LFMD	LFMD	07/13/21 10:06	MS210702-2	.0501	.0341	.0774	mg/L	86	70	130	4	20	
L66828-01LFM	LFM	07/13/21 10:43	MS210702-2	.0501	.0612	.0961	mg/L	70	70	130			
L66828-01LFMD	LFMD	07/13/21 10:45	MS210702-2	.0501	.0612	.0968	mg/L	71	70	130	1	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523052													
WG523052ICV	ICV	07/13/21 13:12	MS210630-2	.05		.05055	mg/L	101	90	110			
WG523052ICB	ICB	07/13/21 13:14				U	mg/L		-0.00022	0.00022			
WG523052LFB	LFB	07/13/21 13:16	MS210702-2	.05005		.05086	mg/L	102	85	115			
L66782-02AS	AS	07/13/21 13:21	MS210702-2	.05005	.00013	.0507	mg/L	101	70	130			
L66782-02ASD	ASD	07/13/21 13:23	MS210702-2	.05005	.00013	.05137	mg/L	102	70	130	1	20	
L66797-07AS	AS	07/13/21 13:46	MS210702-2	.05005	.00032	.05049	mg/L	100	70	130			
L66797-07ASD	ASD	07/13/21 13:48	MS210702-2	.05005	.00032	.0521	mg/L	103	70	130	3	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522664													
WG522664ICV	ICV	07/07/21 16:38	II210628-1	100		99.47	mg/L	99	95	105			
WG522664ICB	ICB	07/07/21 16:44				U	mg/L		-0.6	0.6			
WG522664LFB	LFB	07/07/21 16:57	II210622-2	50.00302		49.02	mg/L	98	85	115			
L66797-04AS	AS	07/07/21 17:13	II210622-2	50.00302	1.52	49.89	mg/L	97	85	115			
L66797-04ASD	ASD	07/07/21 17:16	II210622-2	50.00302	1.52	49.65	mg/L	96	85	115	0	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522709													
WG522709ICV	ICV	07/08/21 17:59	II210628-1	2		1.958	mg/L	98	95	105			
WG522709ICB	ICB	07/08/21 18:06				U	mg/L		-0.03	0.03			
WG522709LFB	LFB	07/08/21 18:19	II210622-2	.5005		.497	mg/L	99	85	115			
L66797-04AS	AS	07/08/21 18:35	II210622-2	.5005	.472	.863	mg/L	78	85	115			M2
L66797-04ASD	ASD	07/08/21 18:38	II210622-2	.5005	.472	.879	mg/L	81	85	115	2	20	M2

Ouray Silver Mines

ACZ Project ID: **L66797**

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, total

M1631E, Atomic Fluorescence

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG510539													
WG510539ICV	ICV	12/02/20 11:56	HG201005-4	10		8.76	ng/L	88	79	121			
WG510539ICB	ICB	12/02/20 12:01				U	ng/L		-0.501	0.501			
WG522541													
WG522541CCV1	CCV	07/06/21 9:44	HG210407-4	10		9.21	ng/L	92	76.5	123.4			
WG522541CCB1	CCB	07/06/21 9:50				U	ng/L		-0.501	0.501			
WG522541PQV	PQV	07/06/21 9:55	HG210407-6	1		.79	ng/L	79	70	130			
WG522541LFB1	LFB	07/06/21 9:59	HG210407-5	2		1.73	ng/L	87	71	125			
L66793-06MS	MS	07/06/21 10:14	HG210407-5	2	1.1	2.7	ng/L	80	71	125			
L66793-06MSD	MSD	07/06/21 10:18	HG210407-5	2	1.1	2.7	ng/L	80	71	125	0	24	
WG522541CCV2	CCV	07/06/21 10:47	HG210407-4	10		8.89	ng/L	89	76.5	123.4			
WG522541CCB2	CCB	07/06/21 10:52				U	ng/L		-0.501	0.501			
L66797-03MS	MS	07/06/21 11:21	HG210407-5	2	1.56	3.11	ng/L	78	71	125			
L66797-03MSD	MSD	07/06/21 11:26	HG210407-5	2	1.56	3.14	ng/L	79	71	125	1	24	
WG522541CCV3	CCV	07/06/21 11:45	HG210407-4	10		8.9	ng/L	89	76.5	123.4			
WG522541CCB3	CCB	07/06/21 11:50				U	ng/L		-0.501	0.501			
WG522541LFB2	LFB	07/06/21 12:19	HG210407-5	2		1.57	ng/L	79	71	125			
L66803-01MS	MS	07/06/21 12:33	HG210407-5	2	.88	2.39	ng/L	76	71	125			
L66803-01MSD	MSD	07/06/21 12:38	HG210407-5	2	.88	2.22	ng/L	67	71	125	7	24	MA
WG522541CCV4	CCV	07/06/21 12:42	HG210407-4	10		8.44	ng/L	84	76.5	123.4			
WG522541CCB4	CCB	07/06/21 12:47				U	ng/L		-0.501	0.501			
WG522541CCV5	CCV	07/06/21 13:40	HG210407-4	10		8.42	ng/L	84	76.5	123.4			
WG522541CCB5	CCB	07/06/21 13:45				U	ng/L		-0.501	0.501			

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522887													
WG522887ICV	ICV	07/09/21 23:29	WI210603-7	2.416		2.375	mg/L	98	90	110			
WG522887ICB	ICB	07/09/21 23:30				U	mg/L		-0.02	0.02			
WG522891													
WG522891LFB	LFB	07/10/21 1:38	WI210331-13	2		2.003	mg/L	100	90	110			
L66797-01AS	AS	07/10/21 1:41	WI210331-13	2	.161	2.215	mg/L	103	90	110			
L66797-02DUP	DUP	07/10/21 1:44			.157	.167	mg/L				6	20	RA

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522709													
WG522709ICV	ICV	07/08/21 17:59	II210628-1	20		19.7	mg/L	99	95	105			
WG522709ICB	ICB	07/08/21 18:06				U	mg/L		-0.6	0.6			
WG522709LFB	LFB	07/08/21 18:19	II210622-2	100.0157		99.59	mg/L	100	85	115			
L66797-04AS	AS	07/08/21 18:35	II210622-2	100.0157	.53	98.63	mg/L	98	85	115			
L66797-04ASD	ASD	07/08/21 18:38	II210622-2	100.0157	.53	98.66	mg/L	98	85	115	0	20	

Ouray Silver Mines

ACZ Project ID: **L66797**

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.

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522470													
WG522470PBW	PBW	07/02/21 15:15				U	mg/L		-20	20			
WG522470LCSW	LCSW	07/02/21 15:16	PCN63834	1000		1000	mg/L	100	80	120			
L66883-01DUP	DUP	07/02/21 15:59			40	44	mg/L				10	10	RA
WG522494													
WG522494PBW	PBW	07/02/21 17:45				U	mg/L		-20	20			
WG522494LCSW	LCSW	07/02/21 17:46	PCN63834	1000		990	mg/L	99	80	120			
L66817-01DUP	DUP	07/02/21 18:10			222	224	mg/L				1	10	

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522464													
WG522464PBW	PBW	07/02/21 13:45				U	mg/L		-5	5			
WG522464LCSW	LCSW	07/02/21 13:46	PCN63834	100		96	mg/L	96	80	120			
L66820-09DUP	DUP	07/02/21 14:08			U	U	mg/L				0	10	RA
WG522465													
WG522465PBW	PBW	07/02/21 14:30				U	mg/L		-5	5			
WG522465LCSW	LCSW	07/02/21 14:31	PCN63834	100		101	mg/L	101	80	120			
L66795-01DUP	DUP	07/02/21 14:35			8	6	mg/L				29	10	RA
L66797-10DUP	DUP	07/02/21 14:57			U	U	mg/L				0	10	RA

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523052													
WG523052ICV	ICV	07/13/21 13:12	MS210630-2	.02		.01905	mg/L	95	90	110			
WG523052ICB	ICB	07/13/21 13:14				U	mg/L		-0.00022	0.00022			
WG523052LFB	LFB	07/13/21 13:16	MS210702-2	.01002		.00972	mg/L	97	85	115			
L66782-02AS	AS	07/13/21 13:21	MS210702-2	.01002	U	.00813	mg/L	81	70	130			
L66782-02ASD	ASD	07/13/21 13:23	MS210702-2	.01002	U	.00808	mg/L	81	70	130	1	20	
L66797-07AS	AS	07/13/21 13:46	MS210702-2	.01002	U	.00967	mg/L	97	70	130			
L66797-07ASD	ASD	07/13/21 13:48	MS210702-2	.01002	U	.0097	mg/L	97	70	130	0	20	

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522664													
WG522664ICV	ICV	07/07/21 16:38	II210628-1	100		99.18	mg/L	99	95	105			
WG522664ICB	ICB	07/07/21 16:44				U	mg/L		-0.6	0.6			
WG522664LFB	LFB	07/07/21 16:57	II210622-2	100.0605		97.67	mg/L	98	85	115			
L66797-04AS	AS	07/07/21 17:13	II210622-2	100.0605	1.09	97.55	mg/L	96	85	115			
L66797-04ASD	ASD	07/07/21 17:16	II210622-2	100.0605	1.09	97.14	mg/L	96	85	115	0	20	

Ouray Silver Mines

ACZ Project ID: **L66797**

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.

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523585													
WG523585ICB	ICB	07/20/21 8:40				U	mg/L		-3	3			
WG523585ICV	ICV	07/20/21 8:40	WI210715-12	20.46		20.8	mg/L	102	90	110			
WG523585LFB	LFB	07/20/21 8:59	WI210105-3	10		9.6	mg/L	96	90	110			
L66797-01DUP	DUP	07/20/21 8:59			33.3	33.2	mg/L				0	20	
L66797-02AS	AS	07/20/21 8:59	WI210105-3	10	28.3	37.9	mg/L	96	90	110			

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG522664													
WG522664ICV	ICV	07/07/21 16:38	II210628-1	2		1.973	mg/L	99	95	105			
WG522664ICB	ICB	07/07/21 16:44				U	mg/L		-0.06	0.06			
WG522664LFB	LFB	07/07/21 16:57	II210622-2	.50075		.475	mg/L	95	85	115			
L66797-04AS	AS	07/07/21 17:13	II210622-2	.50075	.16	.633	mg/L	94	85	115			
L66797-04ASD	ASD	07/07/21 17:16	II210622-2	.50075	.16	.631	mg/L	94	85	115	0	20	

Ouray Silver Mines

ACZ Project ID: **L66797**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66797-01	WG523107	Carbon, dissolved organic (DOC)	SM5310B	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).
	WG523434	Chloride	SM4500CI-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).
	WG522709	Manganese, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG522891	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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).
	WG522470	Residue, Filterable (TDS) @180C	SM2540C	N1	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).
	WG522464	Residue, Non-Filterable (TSS) @105C	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
L66797-02	WG523107	Carbon, dissolved organic (DOC)	SM5310B	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).
	WG523434	Chloride	SM4500CI-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).
	WG523055	Iron, total recoverable	M200.8 ICP-MS	D5	Sample required dilution. Sample matrix causing internal standards to recover outside method limits.
	WG522709	Manganese, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG522891	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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).
	WG522470	Residue, Filterable (TDS) @180C	SM2540C	N1	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).
L66797-03	WG522465	Residue, Non-Filterable (TSS) @105C	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
	WG523325	Carbon, dissolved organic (DOC)	SM5310B	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).
	WG523434	Chloride	SM4500CI-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).
	WG522709	Manganese, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG522891	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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).
	WG522470	Residue, Filterable (TDS) @180C	SM2540C	N1	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).
	WG522465	Residue, Non-Filterable (TSS) @105C	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

Ouray Silver Mines

ACZ Project ID: **L66797**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66797-04	WG523325	Carbon, dissolved organic (DOC)	SM5310B	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).
	WG523434	Chloride	SM4500CI-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).
	WG522709	Manganese, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG522891	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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).
	WG522470	Residue, Filterable (TDS) @180C	SM2540C	N1	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).
	WG522465	Residue, Non-Filterable (TSS) @105C	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
L66797-05	WG523325	Carbon, dissolved organic (DOC)	SM5310B	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).
	WG523434	Chloride	SM4500CI-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).
	WG522709	Manganese, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG522891	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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).
	WG522470	Residue, Filterable (TDS) @180C	SM2540C	N1	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).
	WG522465	Residue, Non-Filterable (TSS) @105C	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
L66797-06	WG523325	Carbon, dissolved organic (DOC)	SM5310B	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).
	WG523434	Chloride	SM4500CI-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).
	WG522709	Manganese, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG522891	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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).
	WG522470	Residue, Filterable (TDS) @180C	SM2540C	N1	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).
	WG522465	Residue, Non-Filterable (TSS) @105C	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

Ouray Silver Mines

ACZ Project ID: **L66797**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66797-07	WG523325	Carbon, dissolved organic (DOC)	SM5310B	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).
	WG523434	Chloride	SM4500CI-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).
	WG522709	Manganese, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG522891	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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).
	WG522470	Residue, Filterable (TDS) @180C	SM2540C	N1	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).
	WG522465	Residue, Non-Filterable (TSS) @105C	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
L66797-08	WG523325	Carbon, dissolved organic (DOC)	SM5310B	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).
	WG523434	Chloride	SM4500CI-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).
	WG522709	Manganese, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG522891	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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).
	WG522494	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.
	WG522465	Residue, Non-Filterable (TSS) @105C	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
L66797-09	WG523325	Carbon, dissolved organic (DOC)	SM5310B	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).
	WG523434	Chloride	SM4500CI-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).
	WG522709	Manganese, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG522891	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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).
	WG522494	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.
	WG522465	Residue, Non-Filterable (TSS) @105C	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

Ouray Silver Mines

ACZ Project ID: **L66797**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66797-10	WG523325	Carbon, dissolved organic (DOC)	SM5310B	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).
	WG523434	Chloride	SM4500CI-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).
	WG522750	Fluoride	SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG522853	Iron, total recoverable	M200.8 ICP-MS	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].
	WG522709	Manganese, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG522891	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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).
	WG522494	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.
			SM2540C	Z3	Sample volume yielded a residue less than 2.5 mg
	WG522465	Residue, Non-Filterable (TSS) @105C	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
	WG522795	Total Alkalinity	SM2320B - Titration	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).
L66797-12	WG522541	Mercury, total	M1631E, Atomic Fluorescence	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.

Ouray Silver Mines

ACZ Project ID: **L66797**

Metals Analysis

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Iron, dissolved	M200.8 ICP-MS
Iron, total recoverable	M200.8 ICP-MS

Ouray Silver Mines

ACZ Project ID: L66797

Date Received: 06/29/2021 11:17

Received By:

Date Printed: 6/30/2021

Receipt Verification

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

Samples/Containers

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

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?
7151	5.9	<=6.0	15	Yes
6929	5.6	<=6.0	15	Yes
5277	3.4	<=6.0	15	Yes

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.

Ouray Silver Mines

ACZ Project ID: L66797

Date Received: 06/29/2021 11:17

Received By:

Date Printed: 6/30/2021

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).



Laboratories, Inc.

L66797

CHAIN of CUSTODY

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

Report to:

Name: Brian Greer Address: _____
Company: Solid Solutions Geosciences _____
E-mail: brian@solidolutionsgeosciences.com Telephone: _____

Copy of Report to:

Name: Chris Bolane E-mail: pernelwater_email@gmail.com
Company: Perne Water Systems Telephone: _____

Invoice to:

Name: Curray Silver Mines Address: _____
Company: _____ Telephone: _____
E-mail: payable@CurraySilvermines.com

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 ☒
NO ☐

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 ☒

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

Sampler's Name: Chris Sampler's Site Information State CO Zip code 81427 Time Zone MT

*Sampler's Signature: C. Bolane

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

ANALYSES REQUESTED (attach list or use quote number)

Quote #: <u>SW</u>				ANALYSES REQUESTED (attach list or use quote number)												
PO#:				# of Containers	SW quote											
Reporting state for compliance testing:																
Check box if samples include NRC licensed material?																
SAMPLE IDENTIFICATION		DATE:TIME		Matrix												
SW-21		6/28	1245	SW		7	✓									
SW-17		6/28	815	SW		7	✓									
SW-15		6/28	1007	SW		7	✓									
SW-99		6/28	1030	SW		7	✓									
SW-16		6/28	905	SW		7	✓									
SW-2		6/28	1120	SW		7	✓									
SW-4		6/28	1200	SW		7	✓									
SW-1		6/28	1350	SW		7	✓									
SW-3		6/28	1415	SW		7	✓									
SW-0		6/28	1450	SW		7	✓									

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

Chris 6/28 1330 CPS Chris 6/29/07 11/17

August 30, 2021

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: Briana Greer, Accounts Payable

Project ID:

ACZ Project ID: L66921

Todd Jesse:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on July 06, 2021. This project has been assigned to ACZ's project number, L66921. Please reference this number in all future inquiries.

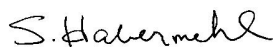
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L66921. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 September 29, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: CWR_20210629

ACZ Sample ID: **L66921-01**

Date Sampled: 06/29/21 15:00

Date Received: 07/06/21

Sample Matrix: Soil

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)								08/11/21 12:23	bls/md
Total Hot Plate Digestion (1312)	M3010A ICP-MS								07/28/21 9:50	mfm
Total Hot Plate Digestion (1312)	M3010A ICP								07/28/21 12:16	jlw

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum (1312)	M6010D ICP	1	0.307		*	mg/L	0.05	0.25	07/30/21 1:28	jlw
Antimony (1312)	M6020B ICP-MS	1	0.00303		*	mg/L	0.0004	0.002	07/28/21 16:32	scp
Arsenic (1312)	M6020B ICP-MS	1	0.0125			mg/L	0.0002	0.001	07/28/21 16:32	scp
Barium (1312)	M6020B ICP-MS	1	0.108			mg/L	0.0005	0.0025	07/28/21 16:32	scp
Beryllium (1312)	M6020B ICP-MS	1	<0.00008	U	*	mg/L	0.00008	0.00025	07/28/21 16:32	scp
Boron (1312)	M6010D ICP	1	<0.03	U	*	mg/L	0.03	0.1	07/30/21 1:28	jlw
Cadmium (1312)	M6020B ICP-MS	1	<0.00005	U	*	mg/L	0.00005	0.00025	07/28/21 16:32	scp
Calcium (1312)	M6010D ICP	1	11.7			mg/L	0.1	0.5	07/30/21 1:28	jlw
Chromium (1312)	M6020B ICP-MS	1	0.00072	B	*	mg/L	0.0005	0.002	07/28/21 16:32	scp
Cobalt (1312)	M6020B ICP-MS	1	0.000099	B	*	mg/L	0.00005	0.00025	07/28/21 16:32	scp
Copper (1312)	M6020B ICP-MS	1	<0.0008	U	*	mg/L	0.0008	0.002	07/28/21 16:32	scp
Iron (1312)	M6010D ICP	1	<0.06	U	*	mg/L	0.06	0.15	07/30/21 1:28	jlw
Lead (1312)	M6020B ICP-MS	1	0.00058		*	mg/L	0.0001	0.0005	07/28/21 16:32	scp
Lithium (1312)	M6010D ICP	1	<0.008	U	*	mg/L	0.008	0.04	07/30/21 1:28	jlw
Magnesium (1312)	M6010D ICP	1	0.61	B	*	mg/L	0.2	1	07/30/21 1:28	jlw
Manganese (1312)	M6020B ICP-MS	1	0.00686		*	mg/L	0.0004	0.002	07/28/21 16:32	scp
Mercury (1312)	M7470A CVAA	1	<0.0002	U	*	mg/L	0.0002	0.001	07/29/21 12:00	mlh
Molybdenum (1312)	M6020B ICP-MS	1	0.00880			mg/L	0.0002	0.0005	07/28/21 16:32	scp
Nickel (1312)	M6020B ICP-MS	1	0.00160		*	mg/L	0.0004	0.001	07/28/21 16:32	scp
Potassium (1312)	M6010D ICP	1	1.60		*	mg/L	0.2	1	07/30/21 1:28	jlw
Selenium (1312)	M6020B ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.00025	07/29/21 20:40	bsu
Silica (1312)	M6010D ICP	1	5.5		*	mg/L	0.2	1	07/30/21 1:28	jlw
Silver (1312)	M6020B ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	07/28/21 16:32	scp
Sodium (1312)	M6010D ICP	1	4.44			mg/L	0.2	1	07/30/21 1:28	jlw
Strontium (1312)	M6010D ICP	1	0.358			mg/L	0.009	0.045	07/30/21 1:28	jlw
Thallium (1312)	M6020B ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	07/28/21 16:32	scp
Tin (1312)	M6010D ICP	1	<0.04	U	*	mg/L	0.04	0.2	07/30/21 1:28	jlw
Uranium (1312)	M6020B ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	07/28/21 16:32	scp
Vanadium (1312)	M6020B ICP-MS	1	0.00136	B	*	mg/L	0.0005	0.002	07/28/21 16:32	scp
Zinc (1312)	M6020B ICP-MS	1	<0.006	U	*	mg/L	0.006	0.015	07/28/21 16:32	scp

Soil Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
pH, (1312)	M9045D/M9040C									
pH			9			Units	0.1	0.1	08/30/21 0:00	ZLN
Temperature			20.9			Units	0.1	0.1	08/30/21 0:00	ZLN

Ouray Silver Mines

Project ID:

Sample ID: CWR_20210629

ACZ Sample ID: **L66921-01**

Date Sampled: 06/29/21 15:00

Date Received: 07/06/21

Sample Matrix: Soil

Soil Preparation

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Synthetic Precip. Leaching Procedure	M1312								07/26/21 18:01	zln
Synthetic Precip. Leaching Procedure	M1312, DI Water								07/26/21 15:00	gkh

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity (1312 DI)	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	15.5	B	*	mg/L	2	20	07/27/21 0:00	emk
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	07/27/21 0:00	emk
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	07/27/21 0:00	emk
Total Alkalinity		1	16.9	B	*	mg/L	2	20	07/27/21 0:00	emk
Bromide (1312-DI)	M300.0 - Ion Chromatography	1	<0.05	U	*	mg/L	0.05	0.25	07/28/21 4:38	krh
Carbon, total organic (TOC) (1312-DI)	SM5310B	1	<1	U	*	mg/L	1	5	08/22/21 5:31	wtc
Chloride (1312-DI)	M300.0 - Ion Chromatography	1	<0.4	U	*	mg/L	0.4	2	07/28/21 4:38	krh
Conductivity @25C (1312-DI)	SM2510B	1	91		*	umhos/cm	1	10	07/27/21 14:07	emk
Fluoride (1312 DI)	SM4500F-C	1	<0.15	U	*	mg/L	0.15	0.35	07/28/21 12:11	eep
Hardness as CaCO ₃ (1312)	SM2340B - Calculation		32			mg/L	0.2	5	08/30/21 0:00	calc
Nitrate (1312 DI)	Calculation: NO ₃ NO ₂ minus NO ₂		4.5			mg/L	0.1	0.5	08/30/21 0:00	calc
Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	5	4.46		*	mg/L	0.1	0.5	07/28/21 1:02	pjb
Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	07/28/21 0:56	pjb
Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion	1	<0.05	U	*	mg/L	0.05	0.2	07/30/21 11:18	syw
Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic Acid	1	<0.01	U	*	mg/L	0.01	0.05	07/27/21 22:25	pjb
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	08/14/21 1:52	pjb
Residue, Filterable (TDS) @180C (1312)	SM2540C	1	70		*	mg/L	20	40	07/28/21 12:05	eep
Residue, Non-Filter (TSS) @180C (1312-DI)	SM2540D	1	<5	U	*	mg/L	5	20	08/03/21 19:11	jck
Sulfate (1312-DI)	M300.0 - Ion Chromatography	1	4.40		*	mg/L	0.4	2	07/28/21 4:38	krh



Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L66921**

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
WG524085													
WG524085PBW	PBW	07/27/21 13:36				U	mg/L		-20	20			
WG524085LCSW2	LCSW	07/27/21 13:50	WC210721-3	820.0001		807.5	mg/L	98	90	110			
WG524009PBS	PBS	07/27/21 13:58				U	mg/L		-20	20			
L66921-01DUP	DUP	07/27/21 14:17			16.9	15.4	mg/L				9	20	RA
WG524085LCSW4	LCSW	07/27/21 14:30	WC210721-3	820.0001		790.2	mg/L	96	90	110			

Aluminum (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524289													
WG524289ICV	ICV	07/30/21 0:51	II210712-1	2		1.918	mg/L	96	90	110			
WG524289ICB	ICB	07/30/21 0:55				U	mg/L		-0.15	0.15			
WG523964PBS	PBS	07/30/21 1:20				U	mg/L		-0.15	0.15			
WG523964LFB1	LFB	07/30/21 1:24	II210714-2	1.0008		.976	mg/L	98	80	120			
L66921-01MS	MS	07/30/21 1:32	II210714-2	1.0008	.307	1.287	mg/L	98	75	125			
L66921-01MSD	MSD	07/30/21 1:35	II210714-2	1.0008	.307	1.283	mg/L	98	75	125	0	20	
L66921-01DUP	DUP	07/30/21 1:39			.307	.392	mg/L				24	20	RA

Antimony (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524241													
WG524241ICV	ICV	07/28/21 16:16	MS210727-2	.0201		.01995	mg/L	99	90	110			
WG524241ICB	ICB	07/28/21 16:18				U	mg/L		-0.0012	0.0012			
WG523964PBS	PBS	07/28/21 16:28				U	mg/L		-0.0012	0.0012			
WG523964LFB2	LFB	07/28/21 16:30	MS210727-5	.01		.00963	mg/L	96	80	120			
L66921-01DUP	DUP	07/28/21 16:34			.00303	.00298	mg/L				2	20	RA
L66923-02MS	MS	07/28/21 16:40	MS210727-5	.01	U	.00995	mg/L	100	75	125			
L66923-02MSD	MSD	07/28/21 16:42	MS210727-5	.01	U	.01012	mg/L	101	75	125	2	20	

Arsenic (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524241													
WG524241ICV	ICV	07/28/21 16:16	MS210727-2	.05		.05125	mg/L	103	90	110			
WG524241ICB	ICB	07/28/21 16:18				U	mg/L		-0.0006	0.0006			
WG523964PBS	PBS	07/28/21 16:28				U	mg/L		-0.0006	0.0006			
WG523964LFB2	LFB	07/28/21 16:30	MS210727-5	.05005		.04878	mg/L	97	80	120			
L66921-01DUP	DUP	07/28/21 16:34			.0125	.01355	mg/L				8	20	
L66923-02MS	MS	07/28/21 16:40	MS210727-5	.05005	.00075	.04924	mg/L	97	75	125			
L66923-02MSD	MSD	07/28/21 16:42	MS210727-5	.05005	.00075	.05013	mg/L	99	75	125	2	20	

Ouray Silver Mines

ACZ Project ID: **L66921**

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.

Barium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524241													
WG524241ICV	ICV	07/28/21 16:16	MS210727-2	.05		.04852	mg/L	97	90	110			
WG524241ICB	ICB	07/28/21 16:18				U	mg/L		-0.0015	0.0015			
WG523964PBS	PBS	07/28/21 16:28				U	mg/L		-0.0015	0.0015			
WG523964LFB2	LFB	07/28/21 16:30	MS210727-5	.049985		.04631	mg/L	93	80	120			
L66921-01DUP	DUP	07/28/21 16:34			.108	.11609	mg/L				7	20	
L66923-02MS	MS	07/28/21 16:40	MS210727-5	.049985	.0214	.06824	mg/L	94	75	125			
L66923-02MSD	MSD	07/28/21 16:42	MS210727-5	.049985	.0214	.06936	mg/L	96	75	125	2	20	

Beryllium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524241													
WG524241ICV	ICV	07/28/21 16:16	MS210727-2	.05		.051242	mg/L	102	90	110			
WG524241ICB	ICB	07/28/21 16:18				U	mg/L		-0.00024	0.00024			
WG523964PBS	PBS	07/28/21 16:28				U	mg/L		-0.00024	0.00024			
WG523964LFB2	LFB	07/28/21 16:30	MS210727-5	.05005		.046808	mg/L	94	80	120			
L66921-01DUP	DUP	07/28/21 16:34			U	U	mg/L				0	20	RA
L66923-02MS	MS	07/28/21 16:40	MS210727-5	.05005	U	.049051	mg/L	98	75	125			
L66923-02MSD	MSD	07/28/21 16:42	MS210727-5	.05005	U	.049257	mg/L	98	75	125	0	20	

Boron (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524289													
WG524289ICV	ICV	07/30/21 0:51	II210712-1	2		1.983	mg/L	99	90	110			
WG524289ICB	ICB	07/30/21 0:55				U	mg/L		-0.09	0.09			
WG523964PBS	PBS	07/30/21 1:20				U	mg/L		-0.09	0.09			
WG523964LFB1	LFB	07/30/21 1:24	II210714-2	.5005		.498	mg/L	100	80	120			
L66921-01MS	MS	07/30/21 1:32	II210714-2	.5005	U	.513	mg/L	102	75	125			
L66921-01MSD	MSD	07/30/21 1:35	II210714-2	.5005	U	.518	mg/L	103	75	125	1	20	
L66921-01DUP	DUP	07/30/21 1:39			U	U	mg/L				0	20	RA

Bromide (1312-DI)

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523874													
WG523874ICV	ICV	07/22/21 20:38	WI210719-3	3.996		4.084	mg/L	102	90	110			
WG523874ICB	ICB	07/22/21 20:56				U	mg/L		-0.05	0.05			
WG524096													
WG524096LFB	LFB	07/28/21 4:20	WI210329-1	1.5		1.401	mg/L	93	90	110			
L66921-01DUP	DUP	07/28/21 4:56			U	U	mg/L				0	20	RA
L66921-01AS	AS	07/28/21 5:14	WI210329-1	1.5	U	1.289	mg/L	86	90	110			M2
WG524009PBS	PBS	07/29/21 2:53				U	mg/L		-0.05	0.05			

Ouray Silver Mines

ACZ Project ID: **L66921**

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.

Cadmium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524241													
WG524241ICV	ICV	07/28/21 16:16	MS210727-2	.05		.051911	mg/L	104	90	110			
WG524241ICB	ICB	07/28/21 16:18				U	mg/L		-0.00015	0.00015			
WG523964PBS	PBS	07/28/21 16:28				U	mg/L		-0.00015	0.00015			
WG523964LFB2	LFB	07/28/21 16:30	MS210727-5	.05005		.048375	mg/L	97	80	120			
L66921-01DUP	DUP	07/28/21 16:34			U	U	mg/L				0	20	RA
L66923-02MS	MS	07/28/21 16:40	MS210727-5	.05005	U	.048902	mg/L	98	75	125			
L66923-02MSD	MSD	07/28/21 16:42	MS210727-5	.05005	U	.049263	mg/L	98	75	125	1	20	

Calcium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524289													
WG524289ICV	ICV	07/30/21 0:51	II210712-1	100		98	mg/L	98	90	110			
WG524289ICB	ICB	07/30/21 0:55				U	mg/L		-0.3	0.3			
WG523964PBS	PBS	07/30/21 1:20				U	mg/L		-0.3	0.3			
WG523964LFB1	LFB	07/30/21 1:24	II210714-2	67.99734		67.1	mg/L	99	80	120			
L66921-01MS	MS	07/30/21 1:32	II210714-2	67.99734	11.7	79.16	mg/L	99	75	125			
L66921-01MSD	MSD	07/30/21 1:35	II210714-2	67.99734	11.7	79.09	mg/L	99	75	125	0	20	
L66921-01DUP	DUP	07/30/21 1:39			11.7	11.09	mg/L				5	20	

Carbon, total organic (TOC) (1312-DI)

SM5310B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525703													
WG525703LFB	LFB	08/22/21 5:02	WI210817-3	50.85		54.7	mg/L	108	90	110			
WG524009PBS	PBS	08/22/21 5:14				U	mg/L		-3	3			
L66921-01AS	AS	08/22/21 5:50	WI210817-3	50.85	U	54.2	mg/L	107	90	110			
L66921-01DUP	DUP	08/22/21 6:02			U	U	mg/L				0	20	RA

Chloride (1312-DI)

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523874													
WG523874ICV	ICV	07/22/21 20:38	WI210719-3	19.96		19.83	mg/L	99	90	110			
WG523874ICB	ICB	07/22/21 20:56				U	mg/L		-0.4	0.4			
WG524096													
WG524096LFB	LFB	07/28/21 4:20	WI210329-1	30		29.98	mg/L	100	90	110			
L66921-01DUP	DUP	07/28/21 4:56			U	U	mg/L				0	20	RA
L66921-01AS	AS	07/28/21 5:14	WI210329-1	30	U	30.14	mg/L	100	90	110			
WG524009PBS	PBS	07/29/21 2:53				U	mg/L		-0.4	0.4			

Ouray Silver Mines

ACZ Project ID: **L66921**

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 (1312) M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524241													
WG524241ICV	ICV	07/28/21 16:16	MS210727-2	.05		.05244	mg/L	105	90	110			
WG524241ICB	ICB	07/28/21 16:18				U	mg/L		-0.0015	0.0015			
WG523964PBS	PBS	07/28/21 16:28				U	mg/L		-0.0015	0.0015			
WG523964LFB2	LFB	07/28/21 16:30	MS210727-5	.05		.04963	mg/L	99	80	120			
L66921-01DUP	DUP	07/28/21 16:34			.00072	U	mg/L				200	20	RA
L66923-02MS	MS	07/28/21 16:40	MS210727-5	.05	.00051	.04953	mg/L	98	75	125			
L66923-02MSD	MSD	07/28/21 16:42	MS210727-5	.05	.00051	.05033	mg/L	100	75	125	2	20	

Cobalt (1312) M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524241													
WG524241ICV	ICV	07/28/21 16:16	MS210727-2	.05		.053142	mg/L	106	90	110			
WG524241ICB	ICB	07/28/21 16:18				U	mg/L		-0.00015	0.00015			
WG523964PBS	PBS	07/28/21 16:28				U	mg/L		-0.00015	0.00015			
WG523964LFB2	LFB	07/28/21 16:30	MS210727-5	.05005		.048706	mg/L	97	80	120			
L66921-01DUP	DUP	07/28/21 16:34			.000099	.000056	mg/L				55	20	RA
L66923-02MS	MS	07/28/21 16:40	MS210727-5	.05005	.00034	.047359	mg/L	94	75	125			
L66923-02MSD	MSD	07/28/21 16:42	MS210727-5	.05005	.00034	.047105	mg/L	93	75	125	1	20	

Conductivity @25C (1312-DI) SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524085													
WG524085PBW	PBW	07/27/21 13:36				U	umhos/cm		-10	10			
WG524085LCSW1	LCSW	07/27/21 13:38	PCN62852	1410		1411	umhos/cm	100	90	110			
WG524009PBS	PBS	07/27/21 13:58				U	umhos/cm		-4	4			
L66921-01DUP	DUP	07/27/21 14:17			91	95	umhos/cm				4	20	
WG524085LCSW3	LCSW	07/27/21 14:18	PCN62852	1410		1400	umhos/cm	99	90	110			

Copper (1312) M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524241													
WG524241ICV	ICV	07/28/21 16:16	MS210727-2	.05		.05151	mg/L	103	90	110			
WG524241ICB	ICB	07/28/21 16:18				U	mg/L		-0.0024	0.0024			
WG523964PBS	PBS	07/28/21 16:28				U	mg/L		-0.0024	0.0024			
WG523964LFB2	LFB	07/28/21 16:30	MS210727-5	.05		.04863	mg/L	97	80	120			
L66921-01DUP	DUP	07/28/21 16:34			U	U	mg/L				0	20	RA
L66923-02MS	MS	07/28/21 16:40	MS210727-5	.05	.0284	.07481	mg/L	93	75	125			
L66923-02MSD	MSD	07/28/21 16:42	MS210727-5	.05	.0284	.07607	mg/L	95	75	125	2	20	

Fluoride (1312 DI) SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524186													
WG524186ICV	ICV	07/28/21 11:49	WC210719-1	2.002		2.03	mg/L	101	90	110			
WG524186ICB	ICB	07/28/21 11:55				U	mg/L		-0.3	0.3			
WG524186LFB	LFB	07/28/21 12:02	WC201221-2	5.015		5.02	mg/L	100	90	110			
WG524009PBS	PBS	07/28/21 12:07				U	mg/L		-0.3	0.3			
L66921-01AS	AS	07/28/21 12:14	WC201221-2	5.015	U	4.86	mg/L	97	90	110			
L66921-01DUP	DUP	07/28/21 12:18			U	U	mg/L				0	20	RA

Ouray Silver Mines

ACZ Project ID: **L66921**

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 (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524289													
WG524289ICV	ICV	07/30/21 0:51	II210712-1	2		1.958	mg/L	98	90	110			
WG524289ICB	ICB	07/30/21 0:55				U	mg/L		-0.18	0.18			
WG523964PBS	PBS	07/30/21 1:20				U	mg/L		-0.18	0.18			
WG523964LFB1	LFB	07/30/21 1:24	II210714-2	1.0001		1.001	mg/L	100	80	120			
L66921-01MS	MS	07/30/21 1:32	II210714-2	1.0001	U	1.02	mg/L	102	75	125			
L66921-01MSD	MSD	07/30/21 1:35	II210714-2	1.0001	U	1.022	mg/L	102	75	125	0	20	
L66921-01DUP	DUP	07/30/21 1:39			U	U	mg/L				0	20	RA

Lead (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524241													
WG524241ICV	ICV	07/28/21 16:16	MS210727-2	.05		.05061	mg/L	101	90	110			
WG524241ICB	ICB	07/28/21 16:18				U	mg/L		-0.0003	0.0003			
WG523964PBS	PBS	07/28/21 16:28				U	mg/L		-0.0003	0.0003			
WG523964LFB2	LFB	07/28/21 16:30	MS210727-5	.05005		.04785	mg/L	96	80	120			
L66921-01DUP	DUP	07/28/21 16:34			.00058	.00066	mg/L				13	20	RA
L66923-02MS	MS	07/28/21 16:40	MS210727-5	.05005	.00011	.04869	mg/L	97	75	125			
L66923-02MSD	MSD	07/28/21 16:42	MS210727-5	.05005	.00011	.04898	mg/L	98	75	125	1	20	

Lithium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524289													
WG524289ICV	ICV	07/30/21 0:51	II210712-1	2		1.972	mg/L	99	90	110			
WG524289ICB	ICB	07/30/21 0:55				U	mg/L		-0.024	0.024			
WG523964PBS	PBS	07/30/21 1:20				U	mg/L		-0.024	0.024			
WG523964LFB1	LFB	07/30/21 1:24	II210714-2	.999		.9484	mg/L	95	80	120			
L66921-01MS	MS	07/30/21 1:32	II210714-2	.999	U	.9706	mg/L	97	75	125			
L66921-01MSD	MSD	07/30/21 1:35	II210714-2	.999	U	.9658	mg/L	97	75	125	0	20	
L66921-01DUP	DUP	07/30/21 1:39			U	U	mg/L				0	20	RA

Magnesium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524289													
WG524289ICV	ICV	07/30/21 0:51	II210712-1	100		95.27	mg/L	95	90	110			
WG524289ICB	ICB	07/30/21 0:55				U	mg/L		-0.6	0.6			
WG523964PBS	PBS	07/30/21 1:20				U	mg/L		-0.6	0.6			
WG523964LFB1	LFB	07/30/21 1:24	II210714-2	50.00074		47.59	mg/L	95	80	120			
L66921-01MS	MS	07/30/21 1:32	II210714-2	50.00074	.61	48.61	mg/L	96	75	125			
L66921-01MSD	MSD	07/30/21 1:35	II210714-2	50.00074	.61	48.54	mg/L	96	75	125	0	20	
L66921-01DUP	DUP	07/30/21 1:39			.61	.46	mg/L				28	20	RA

Ouray Silver Mines

ACZ Project ID: **L66921**

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.

Manganese (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524241													
WG524241ICV	ICV	07/28/21 16:16	MS210727-2	.05		.05224	mg/L	104	90	110			
WG524241ICB	ICB	07/28/21 16:18				U	mg/L		-0.0012	0.0012			
WG523964PBS	PBS	07/28/21 16:28				U	mg/L		-0.0012	0.0012			
WG523964LFB2	LFB	07/28/21 16:30	MS210727-5	.0499		.04881	mg/L	98	80	120			
L66921-01DUP	DUP	07/28/21 16:34			.00686	.00451	mg/L				41	20	RD
L66923-02MS	MS	07/28/21 16:40	MS210727-5	.0499	.003	.04981	mg/L	94	75	125			
L66923-02MSD	MSD	07/28/21 16:42	MS210727-5	.0499	.003	.04956	mg/L	93	75	125	1	20	

Mercury (1312)

M7470A CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524176													
WG524176ICV	ICV	07/29/21 11:33	HG210701-3	.00501		.0051	mg/L	102	90	110			
WG524176ICB	ICB	07/29/21 11:34				U	mg/L		-0.0006	0.0006			
WG524176LFB	LFB	07/29/21 11:36	HG210728-3	.002002		.00206	mg/L	103	85	115			
WG523496PBS	PBS	07/29/21 11:37				U	mg/L		-0.0006	0.0006			
WG523496LFB1	LFB	07/29/21 11:38	HG210728-3	.002002		.00198	mg/L	99	85	115			
L66921-01MS	MS	07/29/21 12:00	HG210728-3	.002002	U	.00188	mg/L	94	85	115			
L66921-01MSD	MSD	07/29/21 12:01	HG210728-3	.002002	U	.00181	mg/L	90	85	115	4	20	
L66921-01DUP	DUP	07/29/21 12:02			U	U	mg/L				0	20	RA
WG523964LFB1	LFB	07/29/21 12:06	HG210728-3	.002002		.00175	mg/L	87	85	115			
WG523964PBS	PBS	07/29/21 12:06				U	mg/L		-0.0006	0.0006			

Molybdenum (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524241													
WG524241ICV	ICV	07/28/21 16:16	MS210727-2	.01992		.01923	mg/L	97	90	110			
WG524241ICB	ICB	07/28/21 16:18				U	mg/L		-0.0006	0.0006			
WG523964PBS	PBS	07/28/21 16:28				U	mg/L		-0.0006	0.0006			
WG523964LFB2	LFB	07/28/21 16:30	MS210727-5	.0501		.04555	mg/L	91	80	120			
L66921-01DUP	DUP	07/28/21 16:34			.0088	.00739	mg/L				17	20	
L66923-02MS	MS	07/28/21 16:40	MS210727-5	.0501	.00435	.05097	mg/L	93	75	125			
L66923-02MSD	MSD	07/28/21 16:42	MS210727-5	.0501	.00435	.0513	mg/L	94	75	125	1	20	

Nickel (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524241													
WG524241ICV	ICV	07/28/21 16:16	MS210727-2	.05		.05269	mg/L	105	90	110			
WG524241ICB	ICB	07/28/21 16:18				U	mg/L		-0.0012	0.0012			
WG523964PBS	PBS	07/28/21 16:28				U	mg/L		-0.0012	0.0012			
WG523964LFB2	LFB	07/28/21 16:30	MS210727-5	.05		.04954	mg/L	99	80	120			
L66921-01DUP	DUP	07/28/21 16:34			.0016	.00043	mg/L				115	20	RA
L66923-02MS	MS	07/28/21 16:40	MS210727-5	.05	.00132	.04857	mg/L	95	75	125			
L66923-02MSD	MSD	07/28/21 16:42	MS210727-5	.05	.00132	.04996	mg/L	97	75	125	3	20	

Ouray Silver Mines

ACZ Project ID: **L66921**

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.

Nitrate/Nitrite as N (1312-DI)

M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524153													
WG524153ICV	ICV	07/27/21 23:51	WI210603-7	2.416		2.295	mg/L	95	90	110			
WG524153ICB	ICB	07/27/21 23:52				U	mg/L		-0.02	0.02			
WG524154													
WG524154LFB	LFB	07/28/21 0:53	WI210331-13	2		2.002	mg/L	100	90	110			
WG524009PBS	PBS	07/28/21 0:55				U	mg/L		-0.02	0.02			
L66921-01AS	AS	07/28/21 1:03	WI210331-13	10	4.46	14.457	mg/L	100	90	110			
L66921-01DUP	DUP	07/28/21 1:05			4.46	4.573	mg/L				3	20	

Nitrite as N (1312-DI)

M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524153													
WG524153ICV	ICV	07/27/21 23:51	WI210603-7	.609		.616	mg/L	101	90	110			
WG524153ICB	ICB	07/27/21 23:52				U	mg/L		-0.01	0.01			
WG524154													
WG524154LFB	LFB	07/28/21 0:53	WI210331-13	1		.988	mg/L	99	90	110			
WG524009PBS	PBS	07/28/21 0:55				U	mg/L		-0.01	0.01			
L66921-01AS	AS	07/28/21 0:57	WI210331-13	1	U	1.035	mg/L	104	90	110			
L66921-01DUP	DUP	07/28/21 0:59			U	U	mg/L				0	20	RA

Nitrogen, ammonia (1312-DI)

M350.1 Auto Salicylate w/gas diffusion

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524362													
WG524362ICV	ICV	07/30/21 11:12	WI210713-1	11.988		12.027	mg/L	100	90	110			
WG524362ICB	ICB	07/30/21 11:13				U	mg/L		-0.05	0.05			
WG524362LFB	LFB	07/30/21 11:15	WI210713-3	10		10.105	mg/L	101	90	110			
WG524009PBS	PBS	07/30/21 11:16				U	mg/L		-0.05	0.05			
L66921-01AS	AS	07/30/21 11:19	WI210713-3	10	U	9.765	mg/L	98	90	110			
L66921-01DUP	DUP	07/30/21 11:20			U	U	mg/L				0	20	RA

Ph

M9045D/M9040C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524377													
WG524377ICV	ICV	07/27/21 13:43	PCN63115	4.01		4	units	100	3.9	4.1			
L66921-01DUP	DUP	07/27/21 13:46			9	9.1	units				1	20	

Phosphorus, ortho dissolved (1312-DI)

M365.1 - Automated Ascorbic Acid

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524152													
WG524152ICV	ICV	07/27/21 22:19	WI210401-4	.65228		.667	mg/L	102	90	110			
WG524152ICB	ICB	07/27/21 22:20				U	mg/L		-0.01	0.01			
WG524152LFB	LFB	07/27/21 22:23	WI210716-2	.5		.513	mg/L	103	90	110			
WG524009PBS	PBS	07/27/21 22:24				U	mg/L		-0.01	0.01			
L66921-01AS	AS	07/27/21 22:26	WI210716-2	.5	U	.518	mg/L	104	90	110			
L66921-01DUP	DUP	07/27/21 22:27			U	U	mg/L				0	20	RA

Ouray Silver Mines

ACZ Project ID: **L66921**

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.

Phosphorus, Total (1312-DI) M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525276													
WG525276ICV	ICV	08/14/21 0:17	WI210805-5	.65228		.657	mg/L	101	90	110			
WG525276ICB	ICB	08/14/21 0:19				U	mg/L		-0.01	0.01			
WG525279													
WG525081PBS	PBS	08/14/21 1:48				U	mg/L		-0.01	0.01			
WG525081LFB	LFB	08/14/21 1:49	WI210729-2	.5		.465	mg/L	93	90	110			
WG524009PBS	PBS	08/14/21 1:51				U	mg/L		-0.01	0.01			
L66921-01MS	MS	08/14/21 1:53	WI210729-2	.5	U	.438	mg/L	88	90	110			M2
L66921-01DUP	DUP	08/14/21 1:54			U	U	mg/L				0	20	RA

Potassium (1312) M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524289													
WG524289ICV	ICV	07/30/21 0:51	II210712-1	20		19.56	mg/L	98	90	110			
WG524289ICB	ICB	07/30/21 0:55				U	mg/L		-0.6	0.6			
WG523964PBS	PBS	07/30/21 1:20				U	mg/L		-0.6	0.6			
WG523964LFB1	LFB	07/30/21 1:24	II210714-2	99.99574		96.03	mg/L	96	80	120			
L66921-01MS	MS	07/30/21 1:32	II210714-2	99.99574	1.6	98.86	mg/L	97	75	125			
L66921-01MSD	MSD	07/30/21 1:35	II210714-2	99.99574	1.6	98.73	mg/L	97	75	125	0	20	
L66921-01DUP	DUP	07/30/21 1:39			1.6	1.57	mg/L				2	20	RA

Residue, Filterable (TDS) @180C (1312) SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524188													
WG524188PBW	PBW	07/28/21 11:50				U	mg/L		-20	20			
WG524188LCSW	LCSW	07/28/21 11:55	PCN63564	1000		974	mg/L	97	80	120			
WG524009PBS	PBS	07/28/21 12:00				U	mg/L		-40	40			
L66921-01DUP	DUP	07/28/21 12:10			70	66	mg/L				6	10	RA

Residue, Non-Filter (TSS) @180C (1312-DI) SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524604													
WG524604PBW	PBW	08/03/21 19:00				U	mg/L		-5	5			
WG524604LCSW	LCSW	08/03/21 19:03	PCN63557	100		94	mg/L	94	80	120			
WG524009PBS	PBS	08/03/21 19:07				U	mg/L		-15	15			
L66921-01DUP	DUP	08/03/21 19:15			U	U	mg/L				0	10	RA

Selenium (1312) M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524338													
WG524338ICV	ICV	07/29/21 20:23	MS210727-2	.05		.04904	mg/L	98	90	110			
WG524338ICB	ICB	07/29/21 20:25				.00011	mg/L		-0.0003	0.0003			
WG523964PBS	PBS	07/29/21 20:36				U	mg/L		-0.0003	0.0003			
WG523964LFB2	LFB	07/29/21 20:38	MS210727-5	.05		.04771	mg/L	95	80	120			
L66921-01DUP	DUP	07/29/21 20:41			U	.0001	mg/L				200	20	RA
L66923-02MS	MS	07/29/21 20:47	MS210727-5	.05	.00013	.04913	mg/L	98	75	125			
L66923-02MSD	MSD	07/29/21 20:53	MS210727-5	.05	.00013	.04851	mg/L	97	75	125	1	20	

Ouray Silver Mines

ACZ Project ID: **L66921**

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.

Silica (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524289													
WG524289ICV	ICV	07/30/21 0:51	II210712-1	42.8		41.59	mg/L	97	90	110			
WG524289ICB	ICB	07/30/21 0:55				U	mg/L		-0.6	0.6			
WG523964PBS	PBS	07/30/21 1:20				U	mg/L		-0.6	0.6			
WG523964LFB1	LFB	07/30/21 1:24	II210714-2	21.404		20.63	mg/L	96	80	120			
L66921-01MS	MS	07/30/21 1:32	II210714-2	21.404	5.5	18.21	mg/L	59	75	125			M2
L66921-01MSD	MSD	07/30/21 1:35	II210714-2	21.404	5.5	18.35	mg/L	60	75	125	1	20	M2
L66921-01DUP	DUP	07/30/21 1:39			5.5	5.52	mg/L				0	20	

Silver (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524241													
WG524241ICV	ICV	07/28/21 16:16	MS210727-2	.02		.01858	mg/L	93	90	110			
WG524241ICB	ICB	07/28/21 16:18				U	mg/L		-0.0003	0.0003			
WG523964PBS	PBS	07/28/21 16:28				U	mg/L		-0.0003	0.0003			
WG523964LFB2	LFB	07/28/21 16:30	MS210727-5	.01002		.00924	mg/L	92	80	120			
L66921-01DUP	DUP	07/28/21 16:34			U	U	mg/L				0	20	RA
L66923-02MS	MS	07/28/21 16:40	MS210727-5	.01002	U	.00912	mg/L	91	75	125			
L66923-02MSD	MSD	07/28/21 16:42	MS210727-5	.01002	U	.00918	mg/L	92	75	125	1	20	

Sodium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524289													
WG524289ICV	ICV	07/30/21 0:51	II210712-1	100		96.7	mg/L	97	90	110			
WG524289ICB	ICB	07/30/21 0:55				U	mg/L		-0.6	0.6			
WG523964PBS	PBS	07/30/21 1:20				U	mg/L		-0.6	0.6			
WG523964LFB1	LFB	07/30/21 1:24	II210714-2	100.0109		95.05	mg/L	95	80	120			
L66921-01MS	MS	07/30/21 1:32	II210714-2	100.0109	4.44	100.8	mg/L	96	75	125			
L66921-01MSD	MSD	07/30/21 1:35	II210714-2	100.0109	4.44	100.6	mg/L	96	75	125	0	20	
L66921-01DUP	DUP	07/30/21 1:39			4.44	4.26	mg/L				4	20	

Strontium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524289													
WG524289ICV	ICV	07/30/21 0:51	II210712-1	2		1.938	mg/L	97	90	110			
WG524289ICB	ICB	07/30/21 0:55				U	mg/L		-0.027	0.027			
WG523964PBS	PBS	07/30/21 1:20				U	mg/L		-0.027	0.027			
WG523964LFB1	LFB	07/30/21 1:24	II210714-2	.5005		.5235	mg/L	105	80	120			
L66921-01MS	MS	07/30/21 1:32	II210714-2	.5005	.358	.8904	mg/L	106	75	125			
L66921-01MSD	MSD	07/30/21 1:35	II210714-2	.5005	.358	.89	mg/L	106	75	125	0	20	
L66921-01DUP	DUP	07/30/21 1:39			.358	.3428	mg/L				4	20	

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ACZ Project ID: **L66921**

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.

Sulfate (1312-DI)

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523874													
WG523874ICV	ICV	07/22/21 20:38	WI210719-3	51.15		49.54	mg/L	97	90	110			
WG523874ICB	ICB	07/22/21 20:56				U	mg/L		-0.4	0.4			
WG524096													
WG524096LFB	LFB	07/28/21 4:20	WI210329-1	29.97		28.96	mg/L	97	90	110			
L66921-01DUP	DUP	07/28/21 4:56			4.4	4.37	mg/L				1	20	
L66921-01AS	AS	07/28/21 5:14	WI210329-1	29.97	4.4	33.98	mg/L	99	90	110			
WG524009PBS	PBS	07/29/21 2:53				U	mg/L		-0.4	0.4			

Thallium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524241													
WG524241ICV	ICV	07/28/21 16:16	MS210727-2	.05		.0524	mg/L	105	90	110			
WG524241ICB	ICB	07/28/21 16:18				U	mg/L		-0.0003	0.0003			
WG523964PBS	PBS	07/28/21 16:28				U	mg/L		-0.0003	0.0003			
WG523964LFB2	LFB	07/28/21 16:30	MS210727-5	.05		.04861	mg/L	97	80	120			
L66921-01DUP	DUP	07/28/21 16:34			U	U	mg/L				0	20	RA
L66923-02MS	MS	07/28/21 16:40	MS210727-5	.05	U	.04969	mg/L	99	75	125			
L66923-02MSD	MSD	07/28/21 16:42	MS210727-5	.05	U	.05016	mg/L	100	75	125	1	20	

Tin (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524289													
WG524289ICV	ICV	07/30/21 0:51	II210712-1	2		1.982	mg/L	99	90	110			
WG524289ICB	ICB	07/30/21 0:55				U	mg/L		-0.12	0.12			
WG523964PBS	PBS	07/30/21 1:20				U	mg/L		-0.12	0.12			
WG523964LFB1	LFB	07/30/21 1:24	II210714-2	1.002		.984	mg/L	98	80	120			
L66921-01MS	MS	07/30/21 1:32	II210714-2	1.002	U	.998	mg/L	100	75	125			
L66921-01MSD	MSD	07/30/21 1:35	II210714-2	1.002	U	.986	mg/L	98	75	125	1	20	
L66921-01DUP	DUP	07/30/21 1:39			U	U	mg/L				0	20	RA

Uranium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524241													
WG524241ICV	ICV	07/28/21 16:16	MS210727-2	.05		.05182	mg/L	104	90	110			
WG524241ICB	ICB	07/28/21 16:18				U	mg/L		-0.0003	0.0003			
WG523964PBS	PBS	07/28/21 16:28				U	mg/L		-0.0003	0.0003			
WG523964LFB2	LFB	07/28/21 16:30	MS210727-5	.05		.0486	mg/L	97	80	120			
L66921-01DUP	DUP	07/28/21 16:34			U	U	mg/L				0	20	RA
L66923-02MS	MS	07/28/21 16:40	MS210727-5	.05	U	.05162	mg/L	103	75	125			
L66923-02MSD	MSD	07/28/21 16:42	MS210727-5	.05	U	.05153	mg/L	103	75	125	0	20	

Ouray Silver Mines

ACZ Project ID: **L66921**

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.

Vanadium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524241													
WG524241ICV	ICV	07/28/21 16:16	MS210727-2	.05		.04988	mg/L	100	90	110			
WG524241ICB	ICB	07/28/21 16:18				U	mg/L		-0.0015	0.0015			
WG523964PBS	PBS	07/28/21 16:28				U	mg/L		-0.0015	0.0015			
WG523964LFB2	LFB	07/28/21 16:30	MS210727-5	.05		.04794	mg/L	96	80	120			
L66921-01DUP	DUP	07/28/21 16:34			.00136	.00191	mg/L				34	20	RA
L66923-02MS	MS	07/28/21 16:40	MS210727-5	.05	.00138	.04956	mg/L	96	75	125			
L66923-02MSD	MSD	07/28/21 16:42	MS210727-5	.05	.00138	.05053	mg/L	98	75	125	2	20	

Zinc (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524241													
WG524241ICV	ICV	07/28/21 16:16	MS210727-2	.05		.0498	mg/L	100	90	110			
WG524241ICB	ICB	07/28/21 16:18				U	mg/L		-0.018	0.018			
WG523964PBS	PBS	07/28/21 16:28				U	mg/L		-0.018	0.018			
WG523964LFB2	LFB	07/28/21 16:30	MS210727-5	.050075		.049	mg/L	98	80	120			
L66921-01DUP	DUP	07/28/21 16:34			U	U	mg/L				0	20	RA
L66923-02MS	MS	07/28/21 16:40	MS210727-5	.050075	U	.0513	mg/L	102	75	125			
L66923-02MSD	MSD	07/28/21 16:42	MS210727-5	.050075	U	.0516	mg/L	103	75	125	1	20	

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ACZ Project ID: **L66921**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L66921-01	WG524289	Aluminum (1312)	M6010D ICP	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).
	WG524241	Antimony (1312)	M6020B ICP-MS	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).
		Beryllium (1312)	M6020B ICP-MS	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).
	WG524085	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG524289	Boron (1312)	M6010D ICP	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).
	WG524096	Bromide (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	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).
	WG524241	Cadmium (1312)	M6020B ICP-MS	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).
	WG525703	Carbon, total organic (TOC) (1312-DI)	SM5310B	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			SM5310B	Q6	Sample was received above recommended temperature.
			SM5310B	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).
	WG524085	Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG524096	Chloride (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography	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).
			M6020B ICP-MS	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).
		Cobalt (1312)	M6020B ICP-MS	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).
	WG524085	Conductivity @25C (1312-DI)	SM2510B	Q6	Sample was received above recommended temperature.
	WG524241	Copper (1312)	M6020B ICP-MS	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).
	WG524186	Fluoride (1312 DI)	SM4500F-C	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).
	WG524085	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG524289	Iron (1312)	M6010D ICP	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).
	WG524241	Lead (1312)	M6020B ICP-MS	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).
	WG524289	Lithium (1312)	M6010D ICP	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated

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Ouray Silver Mines

ACZ Project ID: **L66921**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
		Magnesium (1312)	M6010D ICP	RA	sample is too low for accurate evaluation (< 10x MDL). 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).
	WG524241	Manganese (1312)	M6020B ICP-MS	RD	For a solid matrix, the duplicate RPD (spike or matrix) exceeded the control limit, which is attributable to the non-homogeneity of the sample.
	WG524176	Mercury (1312)	M7470A CVAA	Q6	Sample was received above recommended temperature.
			M7470A CVAA	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).
	WG524241	Nickel (1312)	M6020B ICP-MS	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).
	WG524154	Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
		Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	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).
	WG524362	Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M350.1 Auto Salicylate w/gas diffusion	Q6	Sample was received above recommended temperature.
			M350.1 Auto Salicylate w/gas diffusion	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).
	WG524152	Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic Acid	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M365.1 - Automated Ascorbic Acid	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).
	WG525279	Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M365.1 - Auto Ascorbic Acid (digest)	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			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).
	WG524289	Potassium (1312)	M6010D ICP	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).
	WG524188	Residue, Filterable (TDS) @180C (1312)	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).
	WG524604	Residue, Non-Filter (TSS) @180C (1312-DI)	SM2540D	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated

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Ouray Silver MinesACZ Project ID: **L66921**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
					sample is too low for accurate evaluation (< 10x MDL).
			SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG524338	Selenium (1312)	M6020B ICP-MS	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).
	WG524289	Silica (1312)	M6010D ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M6010D ICP	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
	WG524241	Silver (1312)	M6020B ICP-MS	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).
	WG524096	Sulfate (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
	WG524241	Thallium (1312)	M6020B ICP-MS	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).
	WG524289	Tin (1312)	M6010D ICP	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).
	WG524085	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.
			SM2320B - Titration	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).
	WG524241	Uranium (1312)	M6020B ICP-MS	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).
		Vanadium (1312)	M6020B ICP-MS	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).
		Zinc (1312)	M6020B ICP-MS	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).

Ouray Silver MinesACZ Project ID: **L66921**

Wet Chemistry

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Bicarbonate as CaCO ₃	SM2320B - Titration
Bromide (1312-DI)	M300.0 - Ion Chromatography
Carbonate as CaCO ₃	SM2320B - Titration
Chloride (1312-DI)	M300.0 - Ion Chromatography
Conductivity @25C (1312-DI)	SM2510B
Fluoride (1312 DI)	SM4500F-C
Hydroxide as CaCO ₃	SM2320B - Titration
Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction
Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction
Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion
Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic Acid
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)
Residue, Filterable (TDS) @180C (1312)	SM2540C
Residue, Non-Filter (TSS) @180C (1312-DI)	SM2540D
Sulfate (1312-DI)	M300.0 - Ion Chromatography
Total Alkalinity	SM2320B - Titration

Ouray Silver Mines

ACZ Project ID: L66921

Date Received: 07/06/2021 11:12

Received By:

Date Printed: 7/7/2021

Receipt Verification

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

Samples/Containers

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

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?
NA35390	20.3	NA	15	N/A

Was ice present in the shipment container(s)?

No - Wet or gel ice was not 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.

Ouray Silver Mines

ACZ Project ID: L66921

Date Received: 07/06/2021 11:12

Received By:

Date Printed: 7/7/2021

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).



Laboratories, Inc. L66921

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: 970-325-7241 ext 1018

Copy of Report to:

Name: Briana Greer
Company: Solid Solutions Geosciences

E-mail: briana@solidsolutiongeosciences.com
Telephone: _____

Invoice to:

Name: Ashlee Briggs
Company: Ouray Silver Mines
E-mail: payable@ouraysilvermines.com

Address: _____
Telephone: _____

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 ☐
NO ☒

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 ☒

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

ANALYSES REQUESTED (attach list or use quote number)

Quote #: SPLP			# of Containers	SPLP									
PO#:													
Reporting state for compliance testing:													
Check box if samples include NRC licensed material?		☐											
SAMPLE IDENTIFICATION		DATE:TIME	Matrix										
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July 28, 2021

Report to:

Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Chris Bolane, Accounts Payable

Bill to:

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

Project ID:

ACZ Project ID: L67042

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on July 12, 2021. This project has been assigned to ACZ's project number, L67042. 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 L67042. 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 August 27, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

July 28, 2021

Project ID:

ACZ Project ID: L67042

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 2 miscellaneous samples from Ouray Silver Mines on July 12, 2021. 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 L67042. 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.

(H1) Potentially dissolved filtration performed past holding time. A RAW sample was not submitted so a new PD bottle could not be made. Sample rec'd past 96 hour hold time.

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.

Ouray Silver Mines

Project ID:

Sample ID: 002-A

ACZ Sample ID: **L67042-01**

Date Sampled: 07/08/21 07:50

Date Received: 07/12/21

Sample Matrix: *Waste Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002- 31.5.31 (2009)								07/14/21 11:47	ssr
Cyanide, WAD	SM4500-CN I- distillation								07/20/21 1:04	md
Total Hot Plate Digestion	M200.2 ICP								07/18/21 16:35	kja
Total Recoverable Digestion	M200.2 ICP								07/20/21 14:27	kja

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, potentially dissolved	M200.8 ICP-MS	1	0.000311	H	*	mg/L	0.00005	0.00025	07/19/21 15:36	scp
Copper, potentially dissolved	M200.8 ICP-MS	1	0.00128	BH	*	mg/L	0.0008	0.002	07/19/21 15:36	scp
Iron, total recoverable	M200.7 ICP	1	0.774			mg/L	0.06	0.15	07/21/21 11:28	kja
Lead, potentially dissolved	M200.8 ICP-MS	1	0.0116	H	*	mg/L	0.0001	0.0005	07/19/21 15:36	scp
Lead, total	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.15	07/20/21 3:56	kja
Manganese, potentially dissolved	M200.8 ICP-MS	1	0.482	H	*	mg/L	0.0004	0.002	07/19/21 15:36	scp
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	07/27/21 10:16	mlh
Silver, potentially dissolved	M200.8 ICP-MS	1	<0.0001	UH	*	mg/L	0.0001	0.0005	07/19/21 15:36	scp
Zinc, potentially dissolved	M200.8 ICP-MS	1	0.0882	H	*	mg/L	0.006	0.015	07/19/21 15:36	scp

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	07/21/21 10:27	md

Ouray Silver Mines

Project ID:

Sample ID: 002-A

ACZ Sample ID: **L67042-02**

Date Sampled: 07/08/21 00:00

Date Received: 07/12/21

Sample Matrix: Waste Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
pH (lab)	SM4500H+ B									
pH		1	8.3	H		units	0.1	0.1	07/15/21 0:00	jck
pH measured at		1	21.8			C	0.1	0.1	07/15/21 0:00	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	13.0	B	*	mg/L	5	20	07/13/21 12:27	cgm

Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L67042**

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.

Cadmium, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523555													
WG523555ICV	ICV	07/19/21 15:10	MS210630-2	.05		.046895	mg/L	94	90	110			
WG523555ICB	ICB	07/19/21 15:12				U	mg/L		-0.00011	0.00011			
WG523555LFB	LFB	07/19/21 15:14	MS210702-2	.05005		.049381	mg/L	99	85	115			
WG523176PBW	PBW	07/19/21 15:16				U	mg/L		-0.00015	0.00015			
L67032-01AS	AS	07/19/21 15:28	MS210702-2	.05005	.000056	.049517	mg/L	99	70	130			
L67032-01ASD	ASD	07/19/21 15:30	MS210702-2	.05005	.000056	.04916	mg/L	98	70	130	1	20	
WG523394PBW	PBW	07/19/21 16:05				U	mg/L		-0.00015	0.00015			

Copper, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523555													
WG523555ICV	ICV	07/19/21 15:10	MS210630-2	.05		.04753	mg/L	95	90	110			
WG523555ICB	ICB	07/19/21 15:12				U	mg/L		-0.00176	0.00176			
WG523555LFB	LFB	07/19/21 15:14	MS210702-2	.05		.04855	mg/L	97	85	115			
WG523176PBW	PBW	07/19/21 15:16				U	mg/L		-0.0024	0.0024			
L67032-01AS	AS	07/19/21 15:28	MS210702-2	.05	.0109	.05421	mg/L	87	70	130			
L67032-01ASD	ASD	07/19/21 15:30	MS210702-2	.05	.0109	.05399	mg/L	86	70	130	0	20	
WG523394PBW	PBW	07/19/21 16:05				U	mg/L		-0.0024	0.0024			

Cyanide, WAD

SM4500-CN I,E-Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523684													
WG523684ICV	ICV	07/21/21 10:13	WI210717-7	.3		.2978	mg/L	99	90	110			
WG523684ICB	ICB	07/21/21 10:14				U	mg/L		-0.003	0.003			
WG523537LRB	LRB	07/21/21 10:15				U	mg/L		-0.003	0.003			
WG523537LFB	LFB	07/21/21 10:16	WI210717-5	.2		.1937	mg/L	97	90	110			
L67041-07DUP	DUP	07/21/21 10:26			U	U	mg/L				0	20	RA
L67042-01LFM	LFM	07/21/21 10:27	WI210717-5	.2	U	.1977	mg/L	99	90	110			

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523690													
WG523690ICV	ICV	07/21/21 10:12	II210720-1	2		1.993	mg/L	100	95	105			
WG523690ICB	ICB	07/21/21 10:17				U	mg/L		-0.18	0.18			
WG523586LRB	LRB	07/21/21 10:30				U	mg/L		-0.132	0.132			
WG523586LFB	LFB	07/21/21 10:33	II210714-2	1.0001		1.035	mg/L	103	85	115			
L67098-02LFM	LFM	07/21/21 11:56	II210714-2	1.0001	U	1.055	mg/L	105	70	130			
L67098-02LFMD	LFMD	07/21/21 11:59	II210714-2	1.0001	U	1.061	mg/L	106	70	130	1	20	

Ouray Silver Mines

ACZ Project ID: **L67042**

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.

Lead, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523555													
WG523555ICV	ICV	07/19/21 15:10	MS210630-2	.05		.04639	mg/L	93	90	110			
WG523555ICB	ICB	07/19/21 15:12				U	mg/L		-0.00022	0.00022			
WG523555LFB	LFB	07/19/21 15:14	MS210702-2	.05005		.04858	mg/L	97	85	115			
WG523176PBW	PBW	07/19/21 15:16				U	mg/L		-0.0003	0.0003			
L67032-01AS	AS	07/19/21 15:28	MS210702-2	.05005	.0007	.04969	mg/L	98	70	130			
L67032-01ASD	ASD	07/19/21 15:30	MS210702-2	.05005	.0007	.05004	mg/L	99	70	130	1	20	
WG523394PBW	PBW	07/19/21 16:05				U	mg/L		-0.0003	0.0003			

Lead, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523559													
WG523559ICV	ICV	07/20/21 2:58	II210712-1	4		3.965	mg/L	99	95	105			
WG523559ICB	ICB	07/20/21 3:04				U	mg/L		-0.09	0.09			
WG523457LRB	LRB	07/20/21 3:17				U	mg/L		-0.066	0.066			
WG523457LFB	LFB	07/20/21 3:21	II210714-2	1.0014		1.049	mg/L	105	85	115			
L67040-01LFM	LFM	07/20/21 3:40	II210714-2	1.0014	U	1.064	mg/L	106	70	130			
L67040-01LFMD	LFMD	07/20/21 3:43	II210714-2	1.0014	U	1.03	mg/L	103	70	130	3	20	

Manganese, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523555													
WG523555ICV	ICV	07/19/21 15:10	MS210630-2	.05		.04788	mg/L	96	90	110			
WG523555ICB	ICB	07/19/21 15:12				U	mg/L		-0.00088	0.00088			
WG523555LFB	LFB	07/19/21 15:14	MS210702-2	.0499		.04987	mg/L	100	85	115			
WG523176PBW	PBW	07/19/21 15:16				U	mg/L		-0.0012	0.0012			
L67032-01AS	AS	07/19/21 15:28	MS210702-2	.0499	.0177	.06634	mg/L	97	70	130			
L67032-01ASD	ASD	07/19/21 15:30	MS210702-2	.0499	.0177	.06645	mg/L	98	70	130	0	20	
WG523394PBW	PBW	07/19/21 16:05				U	mg/L		-0.0012	0.0012			

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523944													
WG523944ICV	ICV	07/27/21 10:07	HG210701-3	.00501		.0052	mg/L	104	95	105			
WG523944ICB	ICB	07/27/21 10:08				U	mg/L		-0.0002	0.0002			
WG523944LRB	LRB	07/27/21 10:10				U	mg/L		-0.00044	0.00044			
WG523944LFB	LFB	07/27/21 10:11	HG210709-9	.002002		.00172	mg/L	86	85	115			
L67040-01LFM	LFM	07/27/21 10:13	HG210709-9	.002002	U	.00183	mg/L	91	85	115			
L67040-01LFMD	LFMD	07/27/21 10:14	HG210709-9	.002002	U	.00172	mg/L	86	85	115	6	20	

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523243													
WG523243LCSW1	LCSW	07/14/21 19:26	PCN61687	6		6	units	100	5.9	6.1			
WG523243LCSW4	LCSW	07/14/21 22:35	PCN61687	6		6.1	units	102	5.9	6.1			
WG523243LCSW7	LCSW	07/15/21 1:30	PCN61687	6		6.1	units	102	5.9	6.1			
WG523243LCSW10	LCSW	07/15/21 5:16	PCN61687	6		6.1	units	102	5.9	6.1			
L67065-07DUP	DUP	07/15/21 8:19			3.4	3.4	units				0	20	
WG523243LCSW13	LCSW	07/15/21 8:24	PCN61687	6		6.1	units	102	5.9	6.1			

Ouray Silver Mines

ACZ Project ID: **L67042**

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.

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

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523081													
WG523081PBW	PBW	07/13/21 11:30				U	mg/L		-5	5			
WG523081LCSW	LCSW	07/13/21 11:32	PCN63837	100		103	mg/L	103	80	120			
L67042-02DUP	DUP	07/13/21 12:30			13	13	mg/L				0	10	RA

Silver, potentially dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523555													
WG523555ICV	ICV	07/19/21 15:10	MS210630-2	.02		.01824	mg/L	91	90	110			
WG523555ICB	ICB	07/19/21 15:12				U	mg/L		-0.00022	0.00022			
WG523555LFB	LFB	07/19/21 15:14	MS210702-2	.01002		.01028	mg/L	103	85	115			
WG523176PBW	PBW	07/19/21 15:16				U	mg/L		-0.0003	0.0003			
L67032-01AS	AS	07/19/21 15:28	MS210702-2	.01002	U	.00608	mg/L	61	70	130			M2 ZA
L67032-01ASD	ASD	07/19/21 15:30	MS210702-2	.01002	U	.00893	mg/L	89	70	130	38	20	M2 RF ZA
WG523394PBW	PBW	07/19/21 16:05				U	mg/L		-0.0003	0.0003			

Zinc, potentially dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523555													
WG523555ICV	ICV	07/19/21 15:10	MS210630-2	.05		.0455	mg/L	91	90	110			
WG523555ICB	ICB	07/19/21 15:12				U	mg/L		-0.0132	0.0132			
WG523555LFB	LFB	07/19/21 15:14	MS210702-2	.050075		.0515	mg/L	103	85	115			
WG523176PBW	PBW	07/19/21 15:16				U	mg/L		-0.018	0.018			
L67032-01AS	AS	07/19/21 15:28	MS210702-2	.050075	.0532	.102	mg/L	97	70	130			
L67032-01ASD	ASD	07/19/21 15:30	MS210702-2	.050075	.0532	.1022	mg/L	98	70	130	0	20	
WG523394PBW	PBW	07/19/21 16:05				U	mg/L		-0.018	0.018			

Ouray Silver Mines

ACZ Project ID: **L67042**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L67042-01	WG523555	Cadmium, potentially dissolved	M200.8 ICP-MS	H1	Sample prep or analysis performed past holding time. See case narrative.
			M200.8 ICP-MS	H3	Sample was received and analyzed past holding time.
		Copper, potentially dissolved	M200.8 ICP-MS	H1	Sample prep or analysis performed past holding time. See case narrative.
	WG523684	Cyanide, WAD	M200.8 ICP-MS	H3	Sample was received and analyzed past holding time.
			SM4500-CN I,E-Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			SM4500-CN I,E-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).
	WG523555	Lead, potentially dissolved	M200.8 ICP-MS	H1	Sample prep or analysis performed past holding time. See case narrative.
			M200.8 ICP-MS	H3	Sample was received and analyzed past holding time.
		Manganese, potentially dissolved	M200.8 ICP-MS	H1	Sample prep or analysis performed past holding time. See case narrative.
			M200.8 ICP-MS	H3	Sample was received and analyzed past holding time.
		Silver, potentially dissolved	M200.8 ICP-MS	H1	Sample prep or analysis performed past holding time. See case narrative.
			M200.8 ICP-MS	H3	Sample was received and analyzed past holding time.
			M200.8 ICP-MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Zinc, potentially dissolved	M200.8 ICP-MS	RF	Relative Percent Difference (RPD) for Ag in spiked samples exceeded limit. In the absence of HCl, precipitation of Ag may occur at different rates.
			M200.8 ICP-MS	ZA	Poor recovery for Silver quality control is accepted due to low Silver solubility in samples, digestates, or extracts that do not contain sufficient Hydrochloric acid.
			M200.8 ICP-MS	H1	Sample prep or analysis performed past holding time. See case narrative.
L67042-02	WG523081	Residue, Non-Filterable (TSS) @105C	M200.8 ICP-MS	H3	Sample was received and analyzed past holding time.
			SM2540D	Q6	Sample was received above recommended temperature.
			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

Ouray Silver Mines

ACZ Project ID: **L67042**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L67042

Date Received: 07/12/2021 12:59

Received By:

Date Printed: 7/13/2021

Receipt Verification

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

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	☒	☐	☐
9) Are all labels on containers and are they intact and legible?	☒	☐	☐
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	☒	☐	☐
11) For preserved bottle types, was the pH checked and within limits? ¹	☒	☐	☐
12) Is there sufficient sample volume to perform all requested work?	☒	☐	☐
13) Is the custody seal intact on all containers?	☐	☐	☒
14) Are samples that require zero headspace acceptable?	☐	☐	☒
15) Are all sample containers appropriate for analytical requirements?	☐	☒	☐
L67042-01 : A Orange container not received and the associated analysis could not be run.			
16) Is there an Hg-1631 trip blank present?	☐	☐	☒
17) Is there a VOA trip blank present?	☐	☐	☒
18) Were all samples received within hold time?	☒	☐	☐

NA indicates Not Applicable

Chain of Custody Related Remarks

Raw sample was entered as "CDPS-Bimonth-WW" with a date of 7/7 per sample container.

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
NA35432	18.9	<=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.

Ouray Silver Mines

ACZ Project ID: L67042

Date Received: 07/12/2021 12:59

Received By:

Date Printed: 7/13/2021

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.** **L67042**

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

CHAIN of CUSTODY**Report to:**Name: Brianna GreeyCompany: Solid Solutions GeosciencesE-mail: brianna@solid.solutions.geosciences.com

Address:

Telephone:

Copy of Report to:Name: Chris BedoneCompany: Pure Water SystemsE-mail: purewater_email@gmail.comTelephone: environmental@oxley-silvermines.com**Invoice to:**Name: Ashlee BriggsCompany: Oxley Silver MinesE-mail: payable@oxley-silvermines.com

Address:

Telephone:

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 ☒
NO ☐

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 ☒

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

Sampler's Name: Chris

Sampler's Site Information

State COZip code 81427 Time Zone MT*Sampler's Signature: C. Palmer

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

ANALYSES REQUESTED (attach list or use quote number)

Quote # CDPS-B. Ment

PO#:

Reporting state for compliance testing: ColoradoCheck box if samples include NRC licensed material? ☐**SAMPLE IDENTIFICATION****DATE:TIME****Matrix**

of Containers

CDPS-B. MentCDPS-A7/8 7:50WW4☒

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**Chris7/8 9:15CIPS7/8 9:15

August 02, 2021

Report to:

Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Accounts Payable, Chris Bolane

Bill to:

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

Project ID:

ACZ Project ID: L67253

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on July 21, 2021. This project has been assigned to ACZ's project number, L67253. 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 L67253. 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 September 01, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: 0F002A

ACZ Sample ID: **L67253-01**

Date Sampled: 07/20/21 10:25

Date Received: 07/21/21

Sample Matrix: Waste Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002- 31.5.31 (2009)								07/22/21 10:16	ssr
Cyanide, WAD	SM4500-CN I- distillation								07/28/21 9:44	md
Total Hot Plate Digestion	M200.2 ICP								07/27/21 13:50	kja
Total Recoverable Digestion	M200.2 ICP								07/27/21 14:31	kja

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, potentially dissolved	M200.8 ICP-MS	1	0.00227			mg/L	0.00005	0.00025	07/28/21 17:36	mfm
Copper, potentially dissolved	M200.8 ICP-MS	1	0.0102			mg/L	0.0008	0.002	07/28/21 17:36	mfm
Iron, total recoverable	M200.7 ICP	1	1.03			mg/L	0.06	0.15	07/28/21 11:47	kja
Lead, potentially dissolved	M200.8 ICP-MS	1	0.179			mg/L	0.0001	0.0005	07/28/21 17:36	mfm
Lead, total	M200.7 ICP	1	0.057	B		mg/L	0.03	0.15	07/28/21 21:33	kja
Manganese, potentially dissolved	M200.8 ICP-MS	1	1.53			mg/L	0.0004	0.002	07/28/21 17:36	mfm
Mercury, total	M245.1 CVAA	1	<0.0002	U	*	mg/L	0.0002	0.001	07/28/21 12:17	mlh
Silver, potentially dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	07/28/21 17:36	mfm
Zinc, potentially dissolved	M200.8 ICP-MS	1	0.646			mg/L	0.006	0.015	07/28/21 17:36	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	07/28/21 16:29	md
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	07/28/21 0:00	emk
pH measured at		1	22.6			C	0.1	0.1	07/28/21 0:00	emk
Residue, Non- Filterable (TSS) @105C	SM2540D	1	22.0		*	mg/L	5	20	07/27/21 17:08	scd


Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L67253**

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.

Cadmium, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524244													
WG524244ICV	ICV	07/28/21 17:17	MS210727-2	.05		.050799	mg/L	102	90	110			
WG524244ICB	ICB	07/28/21 17:19				U	mg/L		-0.00011	0.00011			
WG524244LFB	LFB	07/28/21 17:20	MS210727-5	.05005		.049371	mg/L	99	85	115			
WG523799PBW	PBW	07/28/21 17:22				U	mg/L		-0.00015	0.00015			
L67250-02AS	AS	07/28/21 17:31	MS210727-5	.05005	U	.048447	mg/L	97	70	130			
L67250-02ASD	ASD	07/28/21 17:33	MS210727-5	.05005	U	.049482	mg/L	99	70	130	2	20	

Copper, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524244													
WG524244ICV	ICV	07/28/21 17:17	MS210727-2	.05		.0504	mg/L	101	90	110			
WG524244ICB	ICB	07/28/21 17:19				U	mg/L		-0.00176	0.00176			
WG524244LFB	LFB	07/28/21 17:20	MS210727-5	.05		.04881	mg/L	98	85	115			
WG523799PBW	PBW	07/28/21 17:22				U	mg/L		-0.0024	0.0024			
L67250-02AS	AS	07/28/21 17:31	MS210727-5	.05	.00274	.04568	mg/L	86	70	130			
L67250-02ASD	ASD	07/28/21 17:33	MS210727-5	.05	.00274	.0453	mg/L	85	70	130	1	20	

Cyanide, WAD

SM4500-CN I,E-Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524231													
WG524231ICV	ICV	07/28/21 16:25	WI210717-7	.3		.3241	mg/L	108	90	110			
WG524231ICB	ICB	07/28/21 16:26				U	mg/L		-0.003	0.003			
WG524167LRB	LRB	07/28/21 16:26				U	mg/L		-0.003	0.003			
WG524167LFB	LFB	07/28/21 16:27	WI210717-5	.2		.1981	mg/L	99	90	110			
L67278-05DUP	DUP	07/28/21 16:37			U	U	mg/L				0	20	RA
L67279-01LFM	LFM	07/28/21 16:39	WI210717-5	.2	U	.1968	mg/L	98	90	110			

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524175													
WG524175ICV	ICV	07/28/21 10:36	II210720-1	2		2.003	mg/L	100	95	105			
WG524175ICB	ICB	07/28/21 10:42				U	mg/L		-0.18	0.18			
WG524068LRB	LRB	07/28/21 10:55				U	mg/L		-0.132	0.132			
WG524068LFB	LFB	07/28/21 10:58	II210714-2	1.0001		1.04	mg/L	104	85	115			
L67253-01LFM	LFM	07/28/21 11:50	II210714-2	1.0001	1.03	1.983	mg/L	95	70	130			
L67253-01LFMD	LFMD	07/28/21 11:53	II210714-2	1.0001	1.03	2.086	mg/L	106	70	130	5	20	

Lead, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524244													
WG524244ICV	ICV	07/28/21 17:17	MS210727-2	.05		.05189	mg/L	104	90	110			
WG524244ICB	ICB	07/28/21 17:19				U	mg/L		-0.00022	0.00022			
WG524244LFB	LFB	07/28/21 17:20	MS210727-5	.05005		.05045	mg/L	101	85	115			
WG523799PBW	PBW	07/28/21 17:22				U	mg/L		-0.0003	0.0003			
L67250-02AS	AS	07/28/21 17:31	MS210727-5	.05005	.00051	.05174	mg/L	102	70	130			
L67250-02ASD	ASD	07/28/21 17:33	MS210727-5	.05005	.00051	.05245	mg/L	104	70	130	1	20	

Ouray Silver Mines

ACZ Project ID: **L67253**

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.

Lead, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524218													
WG524218ICV	ICV	07/28/21 20:32	II210712-1	4		4.111	mg/L	103	95	105			
WG524218ICB	ICB	07/28/21 20:37				U	mg/L		-0.09	0.09			
WG524071LRB	LRB	07/28/21 20:50				U	mg/L		-0.066	0.066			
WG524071LFB	LFB	07/28/21 20:53	II210714-2	1.0014		1.03	mg/L	103	85	115			
L67234-04LFM	LFM	07/28/21 21:08	II210714-2	1.0014	.062	1.092	mg/L	103	70	130			
L67234-04LFMD	LFMD	07/28/21 21:11	II210714-2	1.0014	.062	1.123	mg/L	106	70	130	3	20	

Manganese, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524244													
WG524244ICV	ICV	07/28/21 17:17	MS210727-2	.05		.05106	mg/L	102	90	110			
WG524244ICB	ICB	07/28/21 17:19				U	mg/L		-0.00088	0.00088			
WG524244LFB	LFB	07/28/21 17:20	MS210727-5	.0499		.05001	mg/L	100	85	115			
WG523799PBW	PBW	07/28/21 17:22				U	mg/L		-0.0012	0.0012			
L67250-02AS	AS	07/28/21 17:31	MS210727-5	.0499	.0269	.07142	mg/L	89	70	130			
L67250-02ASD	ASD	07/28/21 17:33	MS210727-5	.0499	.0269	.07243	mg/L	91	70	130	1	20	

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524157													
WG524157ICV1	ICV	07/28/21 11:58	HG210701-3	.00501		.00505	mg/L	101	95	105			
WG524157ICB	ICB	07/28/21 11:59				U	mg/L		-0.0002	0.0002			
WG524157LRB	LRB	07/28/21 12:11				U	mg/L		-0.00044	0.00044			
WG524157LFB	LFB	07/28/21 12:12	HG210709-9	.002002		.00173	mg/L	86	85	115			
L67245-01LFM	LFM	07/28/21 12:15	HG210709-9	.002002	U	.00159	mg/L	79	85	115			M2
L67245-01LFMD	LFMD	07/28/21 12:16	HG210709-9	.002002	U	.00156	mg/L	78	85	115	2	20	M2

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524234													
WG524234LCSW1	LCSW	07/28/21 17:26	PCN62948	6		6.1	units	102	5.9	6.1			
WG524234LCSW4	LCSW	07/28/21 21:07	PCN62948	6		6.1	units	102	5.9	6.1			
L67259-01DUP	DUP	07/28/21 22:55			8.2	8.2	units				0	20	
WG524234LCSW7	LCSW	07/29/21 0:37	PCN62948	6		6.1	units	102	5.9	6.1			
WG524234LCSW10	LCSW	07/29/21 4:00	PCN62948	6		6.1	units	102	5.9	6.1			
WG524234LCSW13	LCSW	07/29/21 7:32	PCN62948	6		6.1	units	102	5.9	6.1			

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524137													
WG524137PBW	PBW	07/27/21 17:05				U	mg/L		-5	5			
WG524137LCSW	LCSW	07/27/21 17:06	PCN63564	100		89	mg/L	89	80	120			
L67270-01DUP	DUP	07/27/21 17:11			12	14	mg/L				15	10	RA

Ouray Silver Mines

ACZ Project ID: **L67253**

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.

Silver, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524244													
WG524244ICV	ICV	07/28/21 17:17	MS210727-2	.02		.01892	mg/L	95	90	110			
WG524244ICB	ICB	07/28/21 17:19				U	mg/L		-0.00022	0.00022			
WG524244LFB	LFB	07/28/21 17:20	MS210727-5	.01002		.00919	mg/L	92	85	115			
WG523799PBW	PBW	07/28/21 17:22				U	mg/L		-0.0003	0.0003			
L67250-02AS	AS	07/28/21 17:31	MS210727-5	.01002	U	.00771	mg/L	77	70	130			
L67250-02ASD	ASD	07/28/21 17:33	MS210727-5	.01002	U	.00784	mg/L	78	70	130	2	20	

Zinc, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG524244													
WG524244ICV	ICV	07/28/21 17:17	MS210727-2	.05		.052	mg/L	104	90	110			
WG524244ICB	ICB	07/28/21 17:19				U	mg/L		-0.0132	0.0132			
WG524244LFB	LFB	07/28/21 17:20	MS210727-5	.050075		.0556	mg/L	111	85	115			
WG523799PBW	PBW	07/28/21 17:22				U	mg/L		-0.018	0.018			
L67250-02AS	AS	07/28/21 17:31	MS210727-5	.050075	.0268	.0771	mg/L	100	70	130			
L67250-02ASD	ASD	07/28/21 17:33	MS210727-5	.050075	.0268	.0785	mg/L	103	70	130	2	20	

Ouray Silver Mines

ACZ Project ID: **L67253**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L67253-01	WG524231	Cyanide, WAD	SM4500-CN I,E-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).
	WG524157	Mercury, total	M245.1 CVAA	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG524137	Residue, Non-Filterable (TSS) @105C	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

Ouray Silver Mines

ACZ Project ID: **L67253**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L67253

Date Received: 07/21/2021 11:21

Received By:

Date Printed: 7/22/2021

Receipt Verification

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

Samples/Containers

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

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Cooler was not taped shut for shipping.

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
7188	5	<=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.

Ouray Silver Mines

ACZ Project ID: L67253

Date Received: 07/21/2021 11:21

Received By:

Date Printed: 7/22/2021

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).

August 19, 2021

Report to:

Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Environmental, Accounts Payable

Bill to:

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

Project ID:

ACZ Project ID: L67636

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on August 06, 2021. This project has been assigned to ACZ's project number, L67636. 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 L67636. 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 September 18, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: OF002A

ACZ Sample ID: **L67636-01**

Date Sampled: 08/05/21 12:30

Date Received: 08/06/21

Sample Matrix: Waste Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002- 31.5.31 (2009)								08/10/21 3:26	ssr
Cyanide, WAD	SM4500-CN I- distillation		-						08/12/21 15:56	njj1/md
Total Hot Plate Digestion	M200.2 ICP								08/12/21 12:12	kja
Total Recoverable Digestion	M200.2 ICP								08/12/21 15:52	kja

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, potentially dissolved	M200.8 ICP-MS	1	0.000504			mg/L	0.00005	0.00025	08/11/21 13:00	mfm
Copper, potentially dissolved	M200.8 ICP-MS	1	0.00141	B		mg/L	0.0008	0.002	08/11/21 13:00	mfm
Iron, total recoverable	M200.7 ICP	1	1.52			mg/L	0.06	0.15	08/13/21 11:19	jlw
Lead, potentially dissolved	M200.8 ICP-MS	1	0.0131			mg/L	0.0001	0.0005	08/11/21 13:00	mfm
Lead, total	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.15	08/16/21 14:37	jlw
Manganese, potentially dissolved	M200.8 ICP-MS	1	0.629			mg/L	0.0004	0.002	08/11/21 13:00	mfm
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	08/12/21 13:21	mlh
Silver, potentially dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	08/17/21 15:06	mfm
Zinc, potentially dissolved	M200.8 ICP-MS	1	0.169			mg/L	0.006	0.015	08/11/21 13:00	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	08/13/21 13:35	md
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	08/13/21 0:00	eeep
pH measured at		1	22.7			C	0.1	0.1	08/13/21 0:00	eeep
Residue, Non- Filterable (TSS) @105C	SM2540D	1	19.0	B	*	mg/L	5	20	08/12/21 15:35	anc/jck


Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L67636**

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.

Cadmium, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525097													
WG525097ICV	ICV	08/11/21 12:46	MS210727-2	.05		.050674	mg/L	101	90	110			
WG525097ICB	ICB	08/11/21 12:48				U	mg/L		-0.00011	0.00011			
WG525097LFB	LFB	08/11/21 12:50	MS210727-5	.05005		.050502	mg/L	101	85	115			
WG525001PBW	PBW	08/11/21 12:52				U	mg/L		-0.00015	0.00015			
L67636-01AS	AS	08/11/21 13:01	MS210727-5	.05005	.000504	.052856	mg/L	105	70	130			
L67636-01ASD	ASD	08/11/21 13:03	MS210727-5	.05005	.000504	.047151	mg/L	93	70	130	11	20	

Copper, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525097													
WG525097ICV	ICV	08/11/21 12:46	MS210727-2	.05		.04897	mg/L	98	90	110			
WG525097ICB	ICB	08/11/21 12:48				U	mg/L		-0.00176	0.00176			
WG525097LFB	LFB	08/11/21 12:50	MS210727-5	.05		.04924	mg/L	98	85	115			
WG525001PBW	PBW	08/11/21 12:52				U	mg/L		-0.0024	0.0024			
L67636-01AS	AS	08/11/21 13:01	MS210727-5	.05	.00141	.04804	mg/L	93	70	130			
L67636-01ASD	ASD	08/11/21 13:03	MS210727-5	.05	.00141	.04297	mg/L	83	70	130	11	20	

Cyanide, WAD

SM4500-CN I,E-Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525222													
WG525222ICV	ICV	08/13/21 13:13	WI210802-7	.3		.3002	mg/L	100	90	110			
WG525222ICB	ICB	08/13/21 13:14				U	mg/L		-0.003	0.003			
WG525176LRB	LRB	08/13/21 13:15				U	mg/L		-0.003	0.003			
WG525176LFB	LFB	08/13/21 13:16	WI210802-4	.2		.2025	mg/L	101	90	110			
L67625-01DUP	DUP	08/13/21 13:29			.0233	.0193	mg/L				19	20	RA
L67625-02LFM	LFM	08/13/21 13:31	WI210802-4	.2	U	.185	mg/L	93	90	110			

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525228													
WG525228ICV	ICV	08/13/21 9:56	II210803-4	2		1.953	mg/L	98	95	105			
WG525228ICB	ICB	08/13/21 10:02				U	mg/L		-0.18	0.18			
WG525156LRB	LRB	08/13/21 10:15				U	mg/L		-0.132	0.132			
WG525156LFB	LFB	08/13/21 10:19	II210810-2	1.0001		.982	mg/L	98	85	115			
L67647-02LFM	LFM	08/13/21 11:35	II210810-2	1.0001	2.9	3.874	mg/L	97	70	130			
L67647-02LFMD	LFMD	08/13/21 11:38	II210810-2	1.0001	2.9	3.789	mg/L	89	70	130	2	20	

Lead, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525097													
WG525097ICV	ICV	08/11/21 12:46	MS210727-2	.05		.04816	mg/L	96	90	110			
WG525097ICB	ICB	08/11/21 12:48				U	mg/L		-0.00022	0.00022			
WG525097LFB	LFB	08/11/21 12:50	MS210727-5	.05005		.04758	mg/L	95	85	115			
WG525001PBW	PBW	08/11/21 12:52				U	mg/L		-0.0003	0.0003			
L67636-01AS	AS	08/11/21 13:01	MS210727-5	.05005	.0131	.06112	mg/L	96	70	130			
L67636-01ASD	ASD	08/11/21 13:03	MS210727-5	.05005	.0131	.05656	mg/L	87	70	130	8	20	

Ouray Silver Mines

ACZ Project ID: **L67636**

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.

Lead, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525227													
WG525227ICV	ICV	08/16/21 14:03	II210801-1	4		3.936	mg/L	98	95	105			
WG525227ICB	ICB	08/16/21 14:09				U	mg/L		-0.09	0.09			
WG525157LRB	LRB	08/16/21 14:21				U	mg/L		-0.066	0.066			
WG525157LFB	LFB	08/16/21 14:24	II210810-2	1.0014		1.044	mg/L	104	85	115			
L67636-01LFM	LFM	08/16/21 14:40	II210810-2	1.0014	U	1.044	mg/L	104	70	130			
L67636-01LFMD	LFMD	08/16/21 14:43	II210810-2	1.0014	U	1.016	mg/L	101	70	130	3	20	

Manganese, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525097													
WG525097ICV	ICV	08/11/21 12:46	MS210727-2	.05		.05143	mg/L	103	90	110			
WG525097ICB	ICB	08/11/21 12:48				U	mg/L		-0.00088	0.00088			
WG525097LFB	LFB	08/11/21 12:50	MS210727-5	.0499		.05084	mg/L	102	85	115			
WG525001PBW	PBW	08/11/21 12:52				U	mg/L		-0.0012	0.0012			
L67636-01AS	AS	08/11/21 13:01	MS210727-5	.0499	.629	.67657	mg/L	95	70	130			
L67636-01ASD	ASD	08/11/21 13:03	MS210727-5	.0499	.629	.67387	mg/L	90	70	130	0	20	

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525142													
WG525142ICV	ICV	08/12/21 13:06	HG210805-3	.00501		.00491	mg/L	98	95	105			
WG525142ICB	ICB	08/12/21 13:07				U	mg/L		-0.0002	0.0002			
WG525142LRB	LRB	08/12/21 13:08				U	mg/L		-0.00044	0.00044			
WG525142LFB	LFB	08/12/21 13:09	HG210805-6	.002002		.0019	mg/L	95	85	115			
L67636-01LFM	LFM	08/12/21 13:22	HG210805-6	.002002	U	.00174	mg/L	87	85	115			
L67636-01LFMD	LFMD	08/12/21 13:23	HG210805-6	.002002	U	.00176	mg/L	88	85	115	1	20	

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525209													
WG525209LCSW1	LCSW	08/12/21 20:08	PCN62948	6		6.1	units	102	5.9	6.1			
WG525209LCSW4	LCSW	08/12/21 23:07	PCN62948	6		6.1	units	102	5.9	6.1			
WG525209LCSW7	LCSW	08/13/21 2:49	PCN62948	6		6.1	units	102	5.9	6.1			
WG525209LCSW10	LCSW	08/13/21 6:04	PCN62948	6		6.1	units	102	5.9	6.1			
L67728-06DUP	DUP	08/13/21 7:44			6.6	6.3	units				5	20	
WG525209LCSW13	LCSW	08/13/21 9:22	PCN62948	6		6.1	units	102	5.9	6.1			

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525199													
WG525199PBW	PBW	08/12/21 15:20				U	mg/L		-5	5			
WG525199LCSW	LCSW	08/12/21 15:25	PCN63560	100		80	mg/L	80	80	120			
L67666-02DUP	DUP	08/12/21 16:22			U	U	mg/L				0	10	RA

Ouray Silver Mines

ACZ Project ID: **L67636**

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.

Silver, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525431													
WG525431ICV	ICV	08/17/21 14:59	MS210727-2	.02		.01905	mg/L	95	90	110			
WG525431ICB	ICB	08/17/21 15:01				U	mg/L		-0.00022	0.00022			
WG525431LFB	LFB	08/17/21 15:02	MS210727-5	.01002		.01018	mg/L	102	85	115			
WG525001PBW	PBW	08/17/21 15:04				U	mg/L		-0.0003	0.0003			
WG525349PBW	PBW	08/17/21 15:13				U	mg/L		-0.0003	0.0003			
L67823-01AS	AS	08/17/21 15:17	MS210727-5	.01002	U	.01005	mg/L	100	70	130			
L67823-01ASD	ASD	08/17/21 15:19	MS210727-5	.01002	U	.00886	mg/L	88	70	130	13	20	

Zinc, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525097													
WG525097ICV	ICV	08/11/21 12:46	MS210727-2	.05		.048	mg/L	96	90	110			
WG525097ICB	ICB	08/11/21 12:48				U	mg/L		-0.0132	0.0132			
WG525097LFB	LFB	08/11/21 12:50	MS210727-5	.050075		.0554	mg/L	111	85	115			
WG525001PBW	PBW	08/11/21 12:52				.0139	mg/L		-0.018	0.018			
L67636-01AS	AS	08/11/21 13:01	MS210727-5	.050075	.169	.2156	mg/L	93	70	130			
L67636-01ASD	ASD	08/11/21 13:03	MS210727-5	.050075	.169	.2102	mg/L	82	70	130	3	20	

Ouray Silver Mines

ACZ Project ID: **L67636**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L67636-01	WG525222	Cyanide, WAD	SM4500-CN I,E-Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			SM4500-CN I,E-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).
	WG525199	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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

Ouray Silver Mines

ACZ Project ID: **L67636**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L67636

Date Received: 08/06/2021 12:49

Received By:

Date Printed: 8/9/2021

Receipt Verification

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

Samples/Containers

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

Some parameters were received past hold time.

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?
NA35639	6.4	<=6.0	15	Yes

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.

Ouray Silver Mines

ACZ Project ID: L67636

Date Received: 08/06/2021 12:49

Received By:

Date Printed: 8/9/2021

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).

September 08, 2021

Report to:

Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

Bill to:

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

cc: Briana Greer, Accounts Payable, Aahlee Briggs, Environmental

Project ID:

ACZ Project ID: L68002

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on August 24, 2021. This project has been assigned to ACZ's project number, L68002. 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 L68002. 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 08, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: OF002A

ACZ Sample ID: **L68002-01**

Date Sampled: 08/23/21 13:21

Date Received: 08/24/21

Sample Matrix: Waste Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002- 31.5.31 (2009)				*				08/31/21 7:36	bsu
Cyanide, WAD	SM4500-CN I- distillation								08/30/21 9:01	mjj1
Total Hot Plate Digestion	M200.2 ICP								08/30/21 13:46	jlw
Total Recoverable Digestion	M200.2 ICP								08/30/21 17:01	jlw

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, potentially dissolved	M200.8 ICP-MS	1	0.000831		*	mg/L	0.00005	0.00025	08/31/21 12:57	bsu
Copper, potentially dissolved	M200.8 ICP-MS	1	0.00135	B	*	mg/L	0.0008	0.002	08/31/21 12:57	bsu
Iron, total recoverable	M200.7 ICP	1	0.561			mg/L	0.06	0.15	08/31/21 14:47	jlw
Lead, potentially dissolved	M200.8 ICP-MS	1	0.00810		*	mg/L	0.0001	0.0005	08/31/21 12:57	bsu
Lead, total	M200.7 ICP	1	0.032	B		mg/L	0.03	0.15	08/31/21 18:25	kja
Manganese, potentially dissolved	M200.8 ICP-MS	1	0.707		*	mg/L	0.0004	0.002	08/31/21 12:57	bsu
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	08/30/21 16:12	mlh
Silver, potentially dissolved	M200.8 ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	08/31/21 12:57	bsu
Zinc, potentially dissolved	M200.8 ICP-MS	1	0.209		*	mg/L	0.006	0.015	08/31/21 12:57	bsu

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	09/02/21 11:02	mjj1
pH (lab)	SM4500H+ B									
pH		1	8.0	H		units	0.1	0.1	09/03/21 0:00	jck
pH measured at		1	23.6			C	0.1	0.1	09/03/21 0:00	jck
Residue, Non- Filterable (TSS) @105C	SM2540D	1	11.0	B	*	mg/L	5	20	08/25/21 11:02	scd

Ouray Silver Mines

Project ID:

Sample ID: OF002A

ACZ Sample ID: **L68002-02**

Date Sampled: 08/23/21 13:10

Date Received: 08/24/21

Sample Matrix: Waste Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Hot Plate Digestion	M200.2 ICP-MS								08/30/21 9:35	mfm
Total Recoverable Digestion	M200.2 ICP-MS								08/30/21 9:35	mfm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00184			mg/L	0.0002	0.001	08/31/21 12:16	mfm
Cadmium, total	M200.8 ICP-MS	1	0.000859			mg/L	0.00005	0.00025	08/31/21 10:56	mfm
Chromium, total recoverable	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	08/31/21 12:16	mfm
Chromium, Trivalent Total Recoverable	Calculation (Total Recoverable - Hexavalent)		<0.005	U		mg/L	0.005	0.02	09/08/21 0:00	calc
Copper, total	M200.8 ICP-MS	1	0.00114	B		mg/L	0.0008	0.002	08/31/21 10:56	mfm
Mercury, total	M1631E, Atomic Fluorescence	5	<1.5	U	*	ng/L	1.5	5	08/30/21 12:43	mfm
Zinc, total	M200.8 ICP-MS	1	0.214			mg/L	0.006	0.015	08/31/21 10:56	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Dissolved Chromium, Hexavalent	SM3500Cr-B	1	<0.005	U	*	mg/L	0.005	0.02	08/24/21 10:56	scd
Residue, Filterable (TDS) @180C	SM2540C	1	214		*	mg/L	20	40	08/25/21 10:33	anc



Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L68002**

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.

Arsenic, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526277													
WG526277ICV	ICV	08/31/21 11:50	MS210727-2	.05		.04898	mg/L	98	90	110			
WG526277ICB	ICB	08/31/21 11:52				U	mg/L		-0.0006	0.0006			
WG526143LRB	LRB	08/31/21 11:54				U	mg/L		-0.00044	0.00044			
WG526143LFB	LFB	08/31/21 11:56	MS210827-2	.05005		.04801	mg/L	96	85	115			
L67947-01LFM	LFM	08/31/21 12:06	MS210827-2	.05005	U	.04513	mg/L	90	70	130			
L67947-01LFMD	LFMD	08/31/21 12:08	MS210827-2	.05005	U	.04498	mg/L	90	70	130	0	20	

Cadmium, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526272													
WG526272ICV	ICV	08/31/21 12:50	MS210727-2	.05		.051776	mg/L	104	90	110			
WG526272ICB	ICB	08/31/21 12:52				U	mg/L		-0.00011	0.00011			
WG526272LFB	LFB	08/31/21 12:53	MS210827-2	.05005		.045494	mg/L	91	85	115			
WG526269PBW	PBW	08/31/21 12:55				U	mg/L		-0.00015	0.00015			
L68003-01AS	AS	08/31/21 13:01	MS210827-2	.05005	.000124	.047331	mg/L	94	70	130			
L68003-01ASD	ASD	08/31/21 13:03	MS210827-2	.05005	.000124	.048052	mg/L	96	70	130	2	20	

Cadmium, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526261													
WG526261ICV	ICV	08/31/21 10:37	MS210727-2	.05		.052475	mg/L	105	90	110			
WG526261ICB	ICB	08/31/21 10:38				U	mg/L		-0.00015	0.00015			
WG526145LRB	LRB	08/31/21 10:40				U	mg/L		-0.00011	0.00011			
WG526145LFB	LFB	08/31/21 10:42	MS210827-2	.05005		.048665	mg/L	97	85	115			
L67985-01LFM	LFM	08/31/21 10:49	MS210827-2	.05005	U	.048088	mg/L	96	70	130			
L67985-01LFMD	LFMD	08/31/21 10:51	MS210827-2	.05005	U	.047969	mg/L	96	70	130	0	20	

Chromium, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526277													
WG526277ICV	ICV	08/31/21 11:50	MS210727-2	.05		.05022	mg/L	100	90	110			
WG526277ICB	ICB	08/31/21 11:52				U	mg/L		-0.0015	0.0015			
WG526143LRB	LRB	08/31/21 11:54				U	mg/L		-0.0011	0.0011			
WG526143LFB	LFB	08/31/21 11:56	MS210827-2	.05		.04801	mg/L	96	85	115			
L67947-01LFM	LFM	08/31/21 12:06	MS210827-2	.05	U	.04607	mg/L	92	70	130			
L67947-01LFMD	LFMD	08/31/21 12:08	MS210827-2	.05	U	.04575	mg/L	92	70	130	1	20	

Copper, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526272													
WG526272ICV	ICV	08/31/21 12:50	MS210727-2	.05		.05228	mg/L	105	90	110			
WG526272ICB	ICB	08/31/21 12:52				U	mg/L		-0.00176	0.00176			
WG526272LFB	LFB	08/31/21 12:53	MS210827-2	.05		.04537	mg/L	91	85	115			
WG526269PBW	PBW	08/31/21 12:55				U	mg/L		-0.0024	0.0024			
L68003-01AS	AS	08/31/21 13:01	MS210827-2	.05	.00825	.0528	mg/L	89	70	130			
L68003-01ASD	ASD	08/31/21 13:03	MS210827-2	.05	.00825	.05334	mg/L	90	70	130	1	20	

Ouray Silver Mines

ACZ Project ID: **L68002**

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.

Copper, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526261													
WG526261ICV	ICV	08/31/21 10:37	MS210727-2	.05		.05493	mg/L	110	90	110			
WG526261ICB	ICB	08/31/21 10:38				U	mg/L		-0.0024	0.0024			
WG526145LRB	LRB	08/31/21 10:40				U	mg/L		-0.00176	0.00176			
WG526145LFB	LFB	08/31/21 10:42	MS210827-2	.05		.05053	mg/L	101	85	115			
L67985-01LFM	LFM	08/31/21 10:49	MS210827-2	.05	.00158	.05081	mg/L	98	70	130			
L67985-01LFMD	LFMD	08/31/21 10:51	MS210827-2	.05	.00158	.05193	mg/L	101	70	130	2	20	

Cyanide, WAD

SM4500-CN I,E-Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526419													
WG526419ICV	ICV	09/02/21 10:58	WI210902-3	.3		.2958	mg/L	99	90	110			
WG526419ICB	ICB	09/02/21 10:59				U	mg/L		-0.003	0.003			
WG526147LRB	LRB	09/02/21 11:00				U	mg/L		-0.003	0.003			
WG526147LFB	LFB	09/02/21 11:01	WI210830-4	.2		.1871	mg/L	94	90	110			
L68002-01DUP	DUP	09/02/21 11:03			U	U	mg/L				0	20	RA
L68006-01LFM	LFM	09/02/21 11:04	WI210830-4	.2	U	.1866	mg/L	93	90	110			

Dissolved Chromium, Hexavalent

SM3500Cr-B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525831													
WG525831ICV	ICV	08/24/21 10:28	WC210708-5	.05		.0488	mg/L	98	90	110			
WG525831ICB	ICB	08/24/21 10:37				U	mg/L		-0.005	0.005			
WG525831LFB	LFB	08/24/21 10:46	WC210708-7	.05		.0469	mg/L	94	90	110			
L68002-02AS	AS	08/24/21 11:05	WC210708-7	.05	U	.0492	mg/L	98	90	110			
L68002-02DUP	DUP	08/24/21 11:15			U	U	mg/L				0	20	RA

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526287													
WG526287ICV	ICV	08/31/21 13:08	II210826-1	2		1.973	mg/L	99	95	105			
WG526287ICB	ICB	08/31/21 13:14				U	mg/L		-0.18	0.18			
WG526168LRB	LRB	08/31/21 13:27				U	mg/L		-0.132	0.132			
WG526168LFB	LFB	08/31/21 13:30	II210810-2	1.0001		.993	mg/L	99	85	115			
L68104-01LFM	LFM	08/31/21 14:54	II210810-2	1.0001	U	.989	mg/L	99	70	130			
L68104-01LFMD	LFMD	08/31/21 14:57	II210810-2	1.0001	U	1.03	mg/L	103	70	130	4	20	

Lead, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526272													
WG526272ICV	ICV	08/31/21 12:50	MS210727-2	.05		.05119	mg/L	102	90	110			
WG526272ICB	ICB	08/31/21 12:52				U	mg/L		-0.00022	0.00022			
WG526272LFB	LFB	08/31/21 12:53	MS210827-2	.05005		.04555	mg/L	91	85	115			
WG526269PBW	PBW	08/31/21 12:55				U	mg/L		-0.0003	0.0003			
L68003-01AS	AS	08/31/21 13:01	MS210827-2	.05005	.00692	.05563	mg/L	97	70	130			
L68003-01ASD	ASD	08/31/21 13:03	MS210827-2	.05005	.00692	.05655	mg/L	99	70	130	2	20	

Ouray Silver Mines

ACZ Project ID: **L68002**

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.

Lead, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526291													
WG526291ICV	ICV	08/31/21 17:47	II210823-1	4		3.995	mg/L	100	95	105			
WG526291ICB	ICB	08/31/21 17:53				U	mg/L		-0.09	0.09			
WG526164LRB	LRB	08/31/21 18:06				U	mg/L		-0.066	0.066			
WG526164LFB	LFB	08/31/21 18:09	II210810-2	1.0014		1.004	mg/L	100	85	115			
L67985-03LFM	LFM	08/31/21 18:19	II210810-2	1.0014	.03	.997	mg/L	97	70	130			
L67985-03LFMD	LFMD	08/31/21 18:22	II210810-2	1.0014	.03	.992	mg/L	96	70	130	1	20	

Manganese, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526272													
WG526272ICV	ICV	08/31/21 12:50	MS210727-2	.05		.0511	mg/L	102	90	110			
WG526272ICB	ICB	08/31/21 12:52				U	mg/L		-0.00088	0.00088			
WG526272LFB	LFB	08/31/21 12:53	MS210827-2	.0499		.04619	mg/L	93	85	115			
WG526269PBW	PBW	08/31/21 12:55				U	mg/L		-0.0012	0.0012			
L68003-01AS	AS	08/31/21 13:01	MS210827-2	.0499	.0166	.06462	mg/L	96	70	130			
L68003-01ASD	ASD	08/31/21 13:03	MS210827-2	.0499	.0166	.06528	mg/L	98	70	130	1	20	

Mercury, total

M1631E, Atomic Fluorescence

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523056													
WG523056ICV1	ICV	07/13/21 11:31	HG210709-4	10		10.2	ng/L	102	79	121			
WG523056ICB1	ICB	07/13/21 11:36				U	ng/L		-0.501	0.501			
WG526162													
WG526162CCV1	CCV	08/30/21 11:15	HG210709-4	10		8.23	ng/L	82	76.5	123.4			
WG526162CCB1	CCB	08/30/21 11:20				U	ng/L		-0.501	0.501			
WG526162PQV	PQV	08/30/21 11:25	HG210709-6	1		.8	ng/L	80	70	130			
WG526162LFB	LFB	08/30/21 11:30	HG210709-5	2		1.71	ng/L	86	71	125			
L67931-01MS	MS	08/30/21 12:00	HG210709-5	2	2.16	3.32	ng/L	58	71	125			M2 MH
L67931-01MSD	MSD	08/30/21 12:05	HG210709-5	2	2.16	3.47	ng/L	66	71	125	4	24	M2 MH
WG526162CCV2	CCV	08/30/21 12:34	HG210709-4	10		8.09	ng/L	81	76.5	123.4			
WG526162CCB2	CCB	08/30/21 12:38				U	ng/L		-0.501	0.501			
WG526162CCV3	CCV	08/30/21 13:44	HG210709-4	10		8.9	ng/L	89	76.5	123.4			
WG526162CCB3	CCB	08/30/21 13:49				U	ng/L		-0.501	0.501			
WG526162CCV4	CCV	08/30/21 14:03	HG210709-4	10		8.76	ng/L	88	76.5	123.4			
WG526162CCB4	CCB	08/30/21 14:08				U	ng/L		-0.501	0.501			

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526177													
WG526177ICV	ICV	08/30/21 16:02	HG210830-3	.00501		.00485	mg/L	97	95	105			
WG526177ICB	ICB	08/30/21 16:03				U	mg/L		-0.0002	0.0002			
WG526177LRB	LRB	08/30/21 16:05				U	mg/L		-0.00044	0.00044			
WG526177LFB	LFB	08/30/21 16:06	HG210830-6	.002002		.00194	mg/L	97	85	115			
L68002-01LFM	LFM	08/30/21 16:15	HG210830-6	.002002	U	.00187	mg/L	93	85	115			
L68002-01LFMD	LFMD	08/30/21 16:16	HG210830-6	.002002	U	.00185	mg/L	92	85	115	1	20	

Ouray Silver Mines

ACZ Project ID: **L68002**

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
WG526603													
WG526603LCSW1	LCSW	09/03/21 18:36	PCN62948	6		6.1	units	102	5.9	6.1			
L68008-01DUP	DUP	09/03/21 20:06			8.1	8.2	units				1	20	
WG526603LCSW4	LCSW	09/03/21 21:32	PCN62948	6		6.1	units	102	5.9	6.1			
WG526603LCSW13	LCSW	09/04/21 8:40	PCN62948	6		6.1	units	102	5.9	6.1			

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525889													
WG525889PBW	PBW	08/25/21 9:05				U	mg/L		-20	20			
WG525889LCSW	LCSW	08/25/21 9:10	PCN64124	1000		992	mg/L	99	80	120			
L68008-01DUP	DUP	08/25/21 11:04			1000	1008	mg/L				1	10	

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG525908													
WG525908PBW	PBW	08/25/21 10:35				U	mg/L		-2	2			RA
WG525908LCSW	LCSW	08/25/21 10:36	PCN64124	100		93	mg/L	93	80	120			
L67985-03DUP	DUP	08/25/21 10:57			U	U	mg/L				0	10	RA

Silver, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526272													
WG526272ICV	ICV	08/31/21 12:50	MS210727-2	.02		.02075	mg/L	104	90	110			
WG526272ICB	ICB	08/31/21 12:52				U	mg/L		-0.00022	0.00022			
WG526272LFB	LFB	08/31/21 12:53	MS210827-2	.01002		.01058	mg/L	106	85	115			
WG526269PBW	PBW	08/31/21 12:55				U	mg/L		-0.0003	0.0003			
L68003-01AS	AS	08/31/21 13:01	MS210827-2	.01002	U	.00985	mg/L	98	70	130			
L68003-01ASD	ASD	08/31/21 13:03	MS210827-2	.01002	U	.0101	mg/L	101	70	130	3	20	

Zinc, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526272													
WG526272ICV	ICV	08/31/21 12:50	MS210727-2	.05		.0501	mg/L	100	90	110			
WG526272ICB	ICB	08/31/21 12:52				U	mg/L		-0.0132	0.0132			
WG526272LFB	LFB	08/31/21 12:53	MS210827-2	.050075		.0479	mg/L	96	85	115			
WG526269PBW	PBW	08/31/21 12:55				U	mg/L		-0.018	0.018			
L68003-01AS	AS	08/31/21 13:01	MS210827-2	.050075	.527	.5661	mg/L	78	70	130			
L68003-01ASD	ASD	08/31/21 13:03	MS210827-2	.050075	.527	.5638	mg/L	73	70	130	0	20	

Ouray Silver Mines

ACZ Project ID: **L68002**

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.

Zinc, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526261													
WG526261ICV	ICV	08/31/21 10:37	MS210727-2	.05		.0524	mg/L	105	90	110			
WG526261ICB	ICB	08/31/21 10:38				U	mg/L		-0.018	0.018			
WG526145LRB	LRB	08/31/21 10:40				U	mg/L		-0.0132	0.0132			
WG526145LFB	LFB	08/31/21 10:42	MS210827-2	.050075		.0513	mg/L	102	85	115			
L67985-01LFM	LFM	08/31/21 10:49	MS210827-2	.050075	U	.053	mg/L	106	70	130			
L67985-01LFMD	LFMD	08/31/21 10:51	MS210827-2	.050075	U	.0543	mg/L	108	70	130	2	20	

Ouray Silver Mines

ACZ Project ID: **L68002**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68002-01	WG526269	Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002-31.5.31 (2009)	Q5	Sample received with inadequate chemical preservation. Additional preservation performed by the laboratory.
	WG526272	Cadmium, potentially dissolved	M200.8 ICP-MS	Q5	Sample received with inadequate chemical preservation. Additional preservation performed by the laboratory.
		Copper, potentially dissolved	M200.8 ICP-MS	Q5	Sample received with inadequate chemical preservation. Additional preservation performed by the laboratory.
	WG526419	Cyanide, WAD	SM4500-CN I,E-Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			SM4500-CN I,E-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).
	WG526272	Lead, potentially dissolved	M200.8 ICP-MS	Q5	Sample received with inadequate chemical preservation. Additional preservation performed by the laboratory.
		Manganese, potentially dissolved	M200.8 ICP-MS	Q5	Sample received with inadequate chemical preservation. Additional preservation performed by the laboratory.
	WG525908	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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
	WG526272	Silver, potentially dissolved	M200.8 ICP-MS	Q5	Sample received with inadequate chemical preservation. Additional preservation performed by the laboratory.
		Zinc, potentially dissolved	M200.8 ICP-MS	Q5	Sample received with inadequate chemical preservation. Additional preservation performed by the laboratory.
L68002-02	WG525831	Dissolved Chromium, Hexavalent	SM3500Cr-B	Q6	Sample was received above recommended temperature.
			SM3500Cr-B	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).
			SM3500Cr-B	ZU	Analysis date/time preceeds filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
	WG526162	Mercury, total	M1631E, Atomic Fluorescence	D1	Sample required dilution due to matrix.
			M1631E, Atomic Fluorescence	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M1631E, Atomic Fluorescence	MH	For Method 1631E, matrix spike and matrix spike duplicate are outside method limits, sample should not be reported for compliance purposes. Client may request re-analysis on a dilution.
	WG525889	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.

Ouray Silver Mines

ACZ Project ID: **L68002**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L68002

Date Received: 08/24/2021 09:50

Received By:

Date Printed: 8/25/2021

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	
sampled time not present on COC. Sx 1 time entered per Raw bottle, Sx 2 sample entered per White bottle for 24 hold time.			
sampled time not present on COC. Sx 1 time entered per Raw bottle, Sx 2 sample entered per White bottle for 24 hold time.			
sampled time not present on COC. Sx 1 time entered per Raw bottle, Sx 2 sample entered per White bottle for 24 hold time.			
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?	X		
A change was made in the relinquished time was overwritten section prior to ACZ custody.			
A change was made in the relinquished time was overwritten section prior to ACZ custody.			
A change was made in the relinquished time was overwritten section prior to ACZ custody.			

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

HG Trip Blank noted on COC, but not received.

Ouray Silver Mines

ACZ Project ID: L68002

Date Received: 08/24/2021 09:50

Received By:

Date Printed: 8/25/2021

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
-----	-----	-----	-----	-----
6810	12.8	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s) but was thawed by receipt at ACZ.

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

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).

September 30, 2021

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: Briana Greer, Accounts Payable

Project ID:

ACZ Project ID: L68141

Todd Jesse:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on August 30, 2021. This project has been assigned to ACZ's project number, L68141. Please reference this number in all future inquiries.

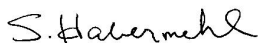
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L68141. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 30, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

September 30, 2021

Project ID:

ACZ Project ID: L68141

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 1 miscellaneous sample from Ouray Silver Mines on August 30, 2021. The sample was received in good condition. Upon receipt, the sample custodian removed the sample from the cooler, inspected the contents, and logged the sample into ACZ's computerized Laboratory Information Management System (LIMS). The sample was assigned ACZ LIMS project number L68141. 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

This sample was 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.

Ouray Silver Mines

Project ID:

Sample ID: CWR_20210823

ACZ Sample ID: **L68141-01**

Date Sampled: 08/23/21 15:00

Date Received: 08/30/21

Sample Matrix: Soil

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)								09/10/21 12:43	bls
Total Hot Plate Digestion (1312)	M3010A ICP-MS								09/15/21 17:27	bsu
Total Hot Plate Digestion (1312)	M3010A ICP								09/12/21 13:57	kja

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum (1312)	M6010D ICP	1	0.349		*	mg/L	0.05	0.25	09/13/21 19:46	kja
Antimony (1312)	M6020B ICP-MS	1	0.00415			mg/L	0.0004	0.002	09/16/21 16:13	bsu
Arsenic (1312)	M6020B ICP-MS	1	0.00993			mg/L	0.0002	0.001	09/16/21 16:13	bsu
Barium (1312)	M6020B ICP-MS	1	0.118			mg/L	0.0005	0.0025	09/16/21 16:13	bsu
Beryllium (1312)	M6020B ICP-MS	1	<0.00008	U	*	mg/L	0.00008	0.00025	09/16/21 16:13	bsu
Boron (1312)	M6010D ICP	1	<0.03	U	*	mg/L	0.03	0.1	09/13/21 19:46	kja
Cadmium (1312)	M6020B ICP-MS	1	<0.00005	U	*	mg/L	0.00005	0.00025	09/16/21 16:13	bsu
Calcium (1312)	M6010D ICP	1	12.2			mg/L	0.1	0.5	09/13/21 19:46	kja
Chromium (1312)	M6020B ICP-MS	1	<0.0005	U	*	mg/L	0.0005	0.002	09/16/21 16:13	bsu
Cobalt (1312)	M6020B ICP-MS	1	<0.00005	U	*	mg/L	0.00005	0.00025	09/16/21 16:13	bsu
Copper (1312)	M6020B ICP-MS	1	0.00148	B	*	mg/L	0.0008	0.002	09/16/21 16:13	bsu
Iron (1312)	M6010D ICP	1	<0.06	U	*	mg/L	0.06	0.15	09/13/21 19:46	kja
Lead (1312)	M6020B ICP-MS	1	0.00223			mg/L	0.0001	0.0005	09/16/21 16:13	bsu
Lithium (1312)	M6010D ICP	1	<0.008	U	*	mg/L	0.008	0.04	09/13/21 19:46	kja
Magnesium (1312)	M6010D ICP	1	0.49	B	*	mg/L	0.2	1	09/13/21 19:46	kja
Manganese (1312)	M6020B ICP-MS	1	0.00916			mg/L	0.0004	0.002	09/16/21 16:13	bsu
Mercury (1312)	M7470A CVAA	1	<0.0002	U	*	mg/L	0.0002	0.001	09/13/21 14:19	mlh
Molybdenum (1312)	M6020B ICP-MS	1	0.0111			mg/L	0.0002	0.0005	09/16/21 16:13	bsu
Nickel (1312)	M6020B ICP-MS	1	<0.0004	U	*	mg/L	0.0004	0.001	09/16/21 16:13	bsu
Potassium (1312)	M6010D ICP	1	1.39		*	mg/L	0.2	1	09/13/21 19:46	kja
Selenium (1312)	M6020B ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.00025	09/16/21 16:13	bsu
Silica (1312)	M6010D ICP	1	5.7			mg/L	0.2	1	09/13/21 19:46	kja
Silver (1312)	M6020B ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	09/16/21 16:13	bsu
Sodium (1312)	M6010D ICP	1	3.53		*	mg/L	0.2	1	09/13/21 19:46	kja
Strontium (1312)	M6010D ICP	1	0.468			mg/L	0.009	0.045	09/13/21 19:46	kja
Thallium (1312)	M6020B ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	09/16/21 16:13	bsu
Tin (1312)	M6010D ICP	1	<0.04	U	*	mg/L	0.04	0.2	09/13/21 19:46	kja
Uranium (1312)	M6020B ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	09/16/21 16:13	bsu
Vanadium (1312)	M6020B ICP-MS	1	0.00067	B	*	mg/L	0.0005	0.002	09/16/21 16:13	bsu
Zinc (1312)	M6020B ICP-MS	1	<0.006	U	*	mg/L	0.006	0.015	09/16/21 16:13	bsu

Soil Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
pH, (1312)	M9045D/M9040C									
pH			9.1			Units	0.1	0.1	09/30/21 0:00	ZLN
Temperature			20.6			Units	0.1	0.1	09/30/21 0:00	ZLN

Ouray Silver Mines

Project ID:

Sample ID: CWR_20210823

ACZ Sample ID: **L68141-01**

Date Sampled: 08/23/21 15:00

Date Received: 08/30/21

Sample Matrix: Soil

Soil Preparation

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Synthetic Precip. Leaching Procedure	M1312								09/09/21 1:50	zln
Synthetic Precip. Leaching Procedure	M1312, DI Water		8.81						09/09/21 5:42	zln

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity (1312 DI)	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	16.9	B	*	mg/L	2	20	09/14/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	09/14/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	09/14/21 0:00	eep
Total Alkalinity		1	16.9	B	*	mg/L	2	20	09/14/21 0:00	eep
Bromide (1312-DI)	M300.0 - Ion Chromatography	1	0.369		*	mg/L	0.05	0.25	09/11/21 3:08	krh
Carbon, total organic (TOC) (1312-DI)	SM5310B	1	<1	U	*	mg/L	1	5	09/24/21 20:26	md
Chloride (1312-DI)	M300.0 - Ion Chromatography	1	<0.4	U	*	mg/L	0.4	2	09/11/21 3:08	krh
Conductivity @25C (1312-DI)	SM2510B	1	87		*	umhos/cm	1	10	09/14/21 18:03	eep
Fluoride (1312 DI)	SM4500F-C	1	<0.15	U	*	mg/L	0.15	0.35	09/18/21 12:53	eep
Hardness as CaCO ₃ (1312)	SM2340B - Calculation		33			mg/L	0.2	5	09/30/21 0:00	calc
Nitrate (1312 DI)	Calculation: NO ₃ NO ₂ minus NO ₂		3.33	H		mg/L	0.06	0.3	09/30/21 0:00	calc
Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	3	3.33	H	*	mg/L	0.06	0.3	09/18/21 22:47	pjb
Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	09/18/21 22:42	pjb
Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion	1	0.064	B	*	mg/L	0.05	0.2	09/26/21 22:55	syw
Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic Acid	1	0.014	B	*	mg/L	0.01	0.05	09/11/21 2:18	pjb
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	09/11/21 0:16	pjb
Residue, Filterable (TDS) @180C (1312)	SM2540C	1	58		*	mg/L	20	40	09/14/21 16:41	emk
Residue, Non-Filter (TSS) @180C (1312-DI)	SM2540D	1	<5	U	*	mg/L	5	20	09/16/21 13:26	emk
Sulfate (1312-DI)	M300.0 - Ion Chromatography	1	4.48		*	mg/L	0.4	2	09/11/21 3:08	krh



Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L68141**

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
WG527173													
WG527173PBW	PBW	09/14/21 17:31				5.4	mg/L		-20	20			
WG527173LCSW2	LCSW	09/14/21 17:46	WC210908-1	820.0001		806.7	mg/L	98	90	110			
WG526775PBS	PBS	09/14/21 17:54				2.4	mg/L		-20	20			
L68141-01DUP	DUP	09/14/21 18:12			16.9	16.2	mg/L				4	20	RA
WG527173LCSW4	LCSW	09/14/21 18:25	WC210908-1	820.0001		790.5	mg/L	96	90	110			

Aluminum (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527063													
WG527063ICV	ICV	09/13/21 19:10	II210823-1	2		1.997	mg/L	100	90	110			
WG527063ICB	ICB	09/13/21 19:14				U	mg/L		-0.15	0.15			
WG526773PBS	PBS	09/13/21 19:38				U	mg/L		-0.15	0.15			
WG526773LFB1	LFB	09/13/21 19:42	II210903-3	1.0008		1.022	mg/L	102	80	120			
L68141-01MS1	MS	09/13/21 19:54	II210903-3	1.0008	.349	1.343	mg/L	99	75	125			
L68141-01MSD1	MSD	09/13/21 19:58	II210903-3	1.0008	.349	1.422	mg/L	107	75	125	6	20	
L68141-01DUP	DUP	09/13/21 20:01			.349	.498	mg/L				35	20	RA

Antimony (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527407													
WG527407ICV	ICV	09/16/21 15:58	MS210727-2	.0201		.01996	mg/L	99	90	110			
WG527407ICB	ICB	09/16/21 16:00				U	mg/L		-0.0012	0.0012			
WG526773PBS	PBS	09/16/21 16:09				U	mg/L		-0.0012	0.0012			
WG526773LFB2	LFB	09/16/21 16:11	MS210827-2	.01		.00905	mg/L	91	80	120			
L68141-01DUP	DUP	09/16/21 16:20			.00415	.00436	mg/L				5	20	
L68141-01MS2	MS	09/16/21 16:34	MS210827-2	.01	.00415	.01372	mg/L	96	75	125			
L68141-01MSD2	MSD	09/16/21 16:36	MS210827-2	.01	.00415	.01386	mg/L	97	75	125	1	20	

Arsenic (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527407													
WG527407ICV	ICV	09/16/21 15:58	MS210727-2	.05		.05051	mg/L	101	90	110			
WG527407ICB	ICB	09/16/21 16:00				U	mg/L		-0.0006	0.0006			
WG526773PBS	PBS	09/16/21 16:09				U	mg/L		-0.0006	0.0006			
WG526773LFB2	LFB	09/16/21 16:11	MS210827-2	.05005		.04672	mg/L	93	80	120			
L68141-01DUP	DUP	09/16/21 16:20			.00993	.01136	mg/L				13	20	
L68141-01MS2	MS	09/16/21 16:34	MS210827-2	.05005	.00993	.05717	mg/L	94	75	125			
L68141-01MSD2	MSD	09/16/21 16:36	MS210827-2	.05005	.00993	.0581	mg/L	96	75	125	2	20	

Ouray Silver Mines

ACZ Project ID: **L68141**

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.

Barium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527407													
WG527407ICV	ICV	09/16/21 15:58	MS210727-2	.05		.05173	mg/L	103	90	110			
WG527407ICB	ICB	09/16/21 16:00				U	mg/L		-0.0015	0.0015			
WG526773PBS	PBS	09/16/21 16:09				U	mg/L		-0.0015	0.0015			
WG526773LFB2	LFB	09/16/21 16:11	MS210827-2	.049985		.04584	mg/L	92	80	120			
L68141-01DUP	DUP	09/16/21 16:20			.118	.11159	mg/L				6	20	
L68141-01MS2	MS	09/16/21 16:34	MS210827-2	.049985	.118	.16098	mg/L	86	75	125			
L68141-01MSD2	MSD	09/16/21 16:36	MS210827-2	.049985	.118	.16196	mg/L	88	75	125	1	20	

Beryllium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527407													
WG527407ICV	ICV	09/16/21 15:58	MS210727-2	.05		.050549	mg/L	101	90	110			
WG527407ICB	ICB	09/16/21 16:00				U	mg/L		-0.00024	0.00024			
WG526773PBS	PBS	09/16/21 16:09				U	mg/L		-0.00024	0.00024			
WG526773LFB2	LFB	09/16/21 16:11	MS210827-2	.05005		.051721	mg/L	103	80	120			
L68141-01DUP	DUP	09/16/21 16:20			U	U	mg/L				0	20	RA
L68141-01MS2	MS	09/16/21 16:34	MS210827-2	.05005	U	.048564	mg/L	97	75	125			
L68141-01MSD2	MSD	09/16/21 16:36	MS210827-2	.05005	U	.048816	mg/L	98	75	125	1	20	

Boron (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527063													
WG527063ICV	ICV	09/13/21 19:10	II210823-1	2		2.007	mg/L	100	90	110			
WG527063ICB	ICB	09/13/21 19:14				U	mg/L		-0.09	0.09			
WG526773PBS	PBS	09/13/21 19:38				U	mg/L		-0.09	0.09			
WG526773LFB1	LFB	09/13/21 19:42	II210903-3	.5005		.509	mg/L	102	80	120			
L68141-01MS1	MS	09/13/21 19:54	II210903-3	.5005	U	.518	mg/L	103	75	125			
L68141-01MSD1	MSD	09/13/21 19:58	II210903-3	.5005	U	.529	mg/L	106	75	125	2	20	
L68141-01DUP	DUP	09/13/21 20:01			U	U	mg/L				0	20	RA

Bromide (1312-DI)

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526455													
WG526455ICV	ICV	09/07/21 21:29	WI210907-3	3.996		4.014	mg/L	100	90	110			
WG526455ICB	ICB	09/07/21 21:47				U	mg/L		-0.05	0.05			
WG526898													
WG526898LFB	LFB	09/11/21 2:32	WI210907-6	1.5		1.422	mg/L	95	90	110			
WG526775PBS	PBS	09/11/21 2:50				U	mg/L		-0.05	0.05			
L68141-01AS	AS	09/11/21 3:26	WI210907-6	1.5	.369	1.413	mg/L	70	90	110			M2
L68141-01DUP	DUP	09/11/21 3:44			.369	.189	mg/L				65	20	RA

Ouray Silver Mines

ACZ Project ID: **L68141**

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.

Cadmium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527407													
WG527407ICV	ICV	09/16/21 15:58	MS210727-2	.05		.051001	mg/L	102	90	110			
WG527407ICB	ICB	09/16/21 16:00				U	mg/L		-0.00015	0.00015			
WG526773PBS	PBS	09/16/21 16:09				U	mg/L		-0.00015	0.00015			
WG526773LFB2	LFB	09/16/21 16:11	MS210827-2	.05005		.045629	mg/L	91	80	120			
L68141-01DUP	DUP	09/16/21 16:20			U	U	mg/L				0	20	RA
L68141-01MS2	MS	09/16/21 16:34	MS210827-2	.05005	U	.045957	mg/L	92	75	125			
L68141-01MSD2	MSD	09/16/21 16:36	MS210827-2	.05005	U	.046197	mg/L	92	75	125	1	20	

Calcium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527063													
WG527063ICV	ICV	09/13/21 19:10	II210823-1	100		99.32	mg/L	99	90	110			
WG527063ICB	ICB	09/13/21 19:14				U	mg/L		-0.3	0.3			
WG526773PBS	PBS	09/13/21 19:38				U	mg/L		-0.3	0.3			
WG526773LFB1	LFB	09/13/21 19:42	II210903-3	67.98972		68.69	mg/L	101	80	120			
L68141-01MS1	MS	09/13/21 19:54	II210903-3	67.98972	12.2	79.89	mg/L	100	75	125			
L68141-01MSD1	MSD	09/13/21 19:58	II210903-3	67.98972	12.2	81.65	mg/L	102	75	125	2	20	
L68141-01DUP	DUP	09/13/21 20:01			12.2	11.12	mg/L				9	20	

Carbon, total organic (TOC) (1312-DI)

SM5310B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527701													
WG527701ICV	ICV	09/23/21 13:14	WI210921-3	100		101.1	mg/L	101	90	110			
WG527701ICB	ICB	09/23/21 13:26				U	mg/L		-3	3			
WG527704													
WG527704LFB	LFB	09/24/21 19:58	WI210921-5	49.94		49.5	mg/L	99	90	110			
WG526775PBS	PBS	09/24/21 20:09				U	mg/L		-3	3			
L68141-01AS	AS	09/24/21 20:45	WI210921-5	49.94	U	50.3	mg/L	101	90	110			
L68141-01DUP	DUP	09/24/21 20:57			U	U	mg/L				0	20	RA

Chloride (1312-DI)

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526455													
WG526455ICV	ICV	09/07/21 21:29	WI210907-3	19.96		19.82	mg/L	99	90	110			
WG526455ICB	ICB	09/07/21 21:47				U	mg/L		-0.4	0.4			
WG526898													
WG526898LFB	LFB	09/11/21 2:32	WI210907-6	30		29.47	mg/L	98	90	110			
WG526775PBS	PBS	09/11/21 2:50				U	mg/L		-0.4	0.4			
L68141-01AS	AS	09/11/21 3:26	WI210907-6	30	U	29.43	mg/L	98	90	110			
L68141-01DUP	DUP	09/11/21 3:44			U	U	mg/L				0	20	RA

Ouray Silver Mines

ACZ Project ID: **L68141**

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 (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527407													
WG527407ICV	ICV	09/16/21 15:58	MS210727-2	.05		.05176	mg/L	104	90	110			
WG527407ICB	ICB	09/16/21 16:00				U	mg/L		-0.0015	0.0015			
WG526773PBS	PBS	09/16/21 16:09				U	mg/L		-0.0015	0.0015			
WG526773LFB2	LFB	09/16/21 16:11	MS210827-2	.05		.04636	mg/L	93	80	120			
L68141-01DUP	DUP	09/16/21 16:20			U	U	mg/L				0	20	RA
L68141-01MS2	MS	09/16/21 16:34	MS210827-2	.05	U	.04587	mg/L	92	75	125			
L68141-01MSD2	MSD	09/16/21 16:36	MS210827-2	.05	U	.04625	mg/L	93	75	125	1	20	

Cobalt (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527407													
WG527407ICV	ICV	09/16/21 15:58	MS210727-2	.05		.052596	mg/L	105	90	110			
WG527407ICB	ICB	09/16/21 16:00				U	mg/L		-0.00015	0.00015			
WG526773PBS	PBS	09/16/21 16:09				U	mg/L		-0.00015	0.00015			
WG526773LFB2	LFB	09/16/21 16:11	MS210827-2	.05005		.047314	mg/L	95	80	120			
L68141-01DUP	DUP	09/16/21 16:20			U	U	mg/L				0	20	RA
L68141-01MS2	MS	09/16/21 16:34	MS210827-2	.05005	U	.046116	mg/L	92	75	125			
L68141-01MSD2	MSD	09/16/21 16:36	MS210827-2	.05005	U	.045954	mg/L	92	75	125	0	20	

Conductivity @25C (1312-DI)

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527173													
WG527173PBW	PBW	09/14/21 17:31				11	umhos/cm		-10	10			
WG527173LCSW1	LCSW	09/14/21 17:33	PCN63140	1408		1398	umhos/cm	99	90	110			
WG526775PBS	PBS	09/14/21 17:54				U	umhos/cm		-4	4			
L68141-01DUP	DUP	09/14/21 18:12			87	84	umhos/cm				4	20	
WG527173LCSW3	LCSW	09/14/21 18:14	PCN63140	1408		1387	umhos/cm	99	90	110			

Copper (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527407													
WG527407ICV	ICV	09/16/21 15:58	MS210727-2	.05		.05271	mg/L	105	90	110			
WG527407ICB	ICB	09/16/21 16:00				U	mg/L		-0.0024	0.0024			
WG526773PBS	PBS	09/16/21 16:09				.00095	mg/L		-0.0024	0.0024			
WG526773LFB2	LFB	09/16/21 16:11	MS210827-2	.05		.0467	mg/L	93	80	120			
L68141-01DUP	DUP	09/16/21 16:20			.00148	U	mg/L				200	20	RA
L68141-01MS2	MS	09/16/21 16:34	MS210827-2	.05	.00148	.04648	mg/L	90	75	125			
L68141-01MSD2	MSD	09/16/21 16:36	MS210827-2	.05	.00148	.04723	mg/L	92	75	125	2	20	

Fluoride (1312 DI)

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527502													
WG527502ICV	ICV	09/18/21 12:28	WC210903-1	2.002		2.08	mg/L	104	90	110			
WG527502ICB	ICB	09/18/21 12:33				U	mg/L		-0.3	0.3			
WG527502LFB	LFB	09/18/21 12:40	WC210803-9	5.02		4.84	mg/L	96	90	110			
WG526775PBS	PBS	09/18/21 12:44				U	mg/L		-0.3	0.3			
L68141-01AS	AS	09/18/21 13:01	WC210803-9	5.02	U	4.8	mg/L	96	90	110			
L68141-01DUP	DUP	09/18/21 13:09			U	U	mg/L				0	20	RA

Ouray Silver Mines

ACZ Project ID: **L68141**

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 (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527063													
WG527063ICV	ICV	09/13/21 19:10	II210823-1	2		1.973	mg/L	99	90	110			
WG527063ICB	ICB	09/13/21 19:14				U	mg/L		-0.18	0.18			
WG526773PBS	PBS	09/13/21 19:38				U	mg/L		-0.18	0.18			
WG526773LFB1	LFB	09/13/21 19:42	II210903-3	1.0001		1.042	mg/L	104	80	120			
L68141-01MS1	MS	09/13/21 19:54	II210903-3	1.0001	U	1.021	mg/L	102	75	125			
L68141-01MSD1	MSD	09/13/21 19:58	II210903-3	1.0001	U	1.042	mg/L	104	75	125	2	20	
L68141-01DUP	DUP	09/13/21 20:01			U	U	mg/L				0	20	RA

Lead (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527407													
WG527407ICV	ICV	09/16/21 15:58	MS210727-2	.05		.05079	mg/L	102	90	110			
WG527407ICB	ICB	09/16/21 16:00				U	mg/L		-0.0003	0.0003			
WG526773PBS	PBS	09/16/21 16:09				U	mg/L		-0.0003	0.0003			
WG526773LFB2	LFB	09/16/21 16:11	MS210827-2	.05005		.04567	mg/L	91	80	120			
L68141-01DUP	DUP	09/16/21 16:20			.00223	.00252	mg/L				12	20	
L68141-01MS2	MS	09/16/21 16:34	MS210827-2	.05005	.00223	.04712	mg/L	90	75	125			
L68141-01MSD2	MSD	09/16/21 16:36	MS210827-2	.05005	.00223	.04688	mg/L	89	75	125	1	20	

Lithium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527063													
WG527063ICV	ICV	09/13/21 19:10	II210823-1	2		1.998	mg/L	100	90	110			
WG527063ICB	ICB	09/13/21 19:14				U	mg/L		-0.024	0.024			
WG526773PBS	PBS	09/13/21 19:38				U	mg/L		-0.024	0.024			
WG526773LFB1	LFB	09/13/21 19:42	II210903-3	.999		.9939	mg/L	99	80	120			
L68141-01MS1	MS	09/13/21 19:54	II210903-3	.999	U	.989	mg/L	99	75	125			
L68141-01MSD1	MSD	09/13/21 19:58	II210903-3	.999	U	1.002	mg/L	100	75	125	1	20	
L68141-01DUP	DUP	09/13/21 20:01			U	U	mg/L				0	20	RA

Magnesium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527063													
WG527063ICV	ICV	09/13/21 19:10	II210823-1	100		96.49	mg/L	96	90	110			
WG527063ICB	ICB	09/13/21 19:14				U	mg/L		-0.6	0.6			
WG526773PBS	PBS	09/13/21 19:38				U	mg/L		-0.6	0.6			
WG526773LFB1	LFB	09/13/21 19:42	II210903-3	49.99828		48.54	mg/L	97	80	120			
L68141-01MS1	MS	09/13/21 19:54	II210903-3	49.99828	.49	48.58	mg/L	96	75	125			
L68141-01MSD1	MSD	09/13/21 19:58	II210903-3	49.99828	.49	49.13	mg/L	97	75	125	1	20	
L68141-01DUP	DUP	09/13/21 20:01			.49	.45	mg/L				9	20	RA

Ouray Silver Mines

ACZ Project ID: **L68141**

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.

Manganese (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527407													
WG527407ICV	ICV	09/16/21 15:58	MS210727-2	.05		.05156	mg/L	103	90	110			
WG527407ICB	ICB	09/16/21 16:00				U	mg/L		-0.0012	0.0012			
WG526773PBS	PBS	09/16/21 16:09				U	mg/L		-0.0012	0.0012			
WG526773LFB2	LFB	09/16/21 16:11	MS210827-2	.0499		.04696	mg/L	94	80	120			
L68141-01DUP	DUP	09/16/21 16:20			.00916	.00826	mg/L				10	20	
L68141-01MS2	MS	09/16/21 16:34	MS210827-2	.0499	.00916	.0529	mg/L	88	75	125			
L68141-01MSD2	MSD	09/16/21 16:36	MS210827-2	.0499	.00916	.05224	mg/L	86	75	125	1	20	

Mercury (1312)

M7470A CVA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527007													
WG527007ICV	ICV	09/13/21 13:12	HG210913-3	.00501		.0051	mg/L	102	95	105			
WG527007ICB	ICB	09/13/21 13:13				U	mg/L		-0.0002	0.0002			
WG527013													
WG527013LFB	LFB	09/13/21 14:16	HG210913-6	.002002		.00202	mg/L	101	85	115			
WG526773PBS	PBS	09/13/21 14:17				U	mg/L		-0.0006	0.0006			
WG526773LFB1	LFB	09/13/21 14:18	HG210913-6	.002002		.00177	mg/L	88	85	115			
L68141-01MS1	MS	09/13/21 14:20	HG210913-6	.002002	U	.00181	mg/L	90	85	115			
L68141-01MSD1	MSD	09/13/21 14:21	HG210913-6	.002002	U	.00178	mg/L	89	85	115	2	20	
L68141-01DUP	DUP	09/13/21 14:22			U	U	mg/L				0	20	RA

Molybdenum (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527407													
WG527407ICV	ICV	09/16/21 15:58	MS210727-2	.01992		.01975	mg/L	99	90	110			
WG527407ICB	ICB	09/16/21 16:00				U	mg/L		-0.0006	0.0006			
WG526773PBS	PBS	09/16/21 16:09				U	mg/L		-0.0006	0.0006			
WG526773LFB2	LFB	09/16/21 16:11	MS210827-2	.05005		.04647	mg/L	93	80	120			
L68141-01DUP	DUP	09/16/21 16:20			.0111	.01166	mg/L				5	20	
L68141-01MS2	MS	09/16/21 16:34	MS210827-2	.05005	.0111	.05672	mg/L	91	75	125			
L68141-01MSD2	MSD	09/16/21 16:36	MS210827-2	.05005	.0111	.05648	mg/L	91	75	125	0	20	

Nickel (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527407													
WG527407ICV	ICV	09/16/21 15:58	MS210727-2	.05		.05204	mg/L	104	90	110			
WG527407ICB	ICB	09/16/21 16:00				U	mg/L		-0.0012	0.0012			
WG526773PBS	PBS	09/16/21 16:09				.00046	mg/L		-0.0012	0.0012			
WG526773LFB2	LFB	09/16/21 16:11	MS210827-2	.05		.0455	mg/L	91	80	120			
L68141-01DUP	DUP	09/16/21 16:20			U	U	mg/L				0	20	RA
L68141-01MS2	MS	09/16/21 16:34	MS210827-2	.05	U	.04523	mg/L	90	75	125			
L68141-01MSD2	MSD	09/16/21 16:36	MS210827-2	.05	U	.04595	mg/L	92	75	125	2	20	

Ouray Silver Mines

ACZ Project ID: **L68141**

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Nitrate/Nitrite as N (1312-DI)

M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527508													
WG527508ICV	ICV	09/18/21 20:53	WI210904-1	2.4161		2.335	mg/L	97	90	110			
WG527508ICB	ICB	09/18/21 20:55				U	mg/L		-0.02	0.02			
WG526968													
WG526968LFB	LFB	09/18/21 22:39	WI210331-13	2		1.96	mg/L	98	90	110			
WG526775PBS	PBS	09/18/21 22:41				U	mg/L		-0.02	0.02			
L68141-01AS	AS	09/18/21 22:48	WI210331-13	6	3.33	9.103	mg/L	96	90	110			
L68141-01DUP	DUP	09/18/21 22:49			3.33	3.314	mg/L				0	20	

Nitrite as N (1312-DI)

M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527508													
WG527508ICV	ICV	09/18/21 20:53	WI210904-1	.6089		.597	mg/L	98	90	110			
WG527508ICB	ICB	09/18/21 20:55				U	mg/L		-0.01	0.01			
WG526968													
WG526968LFB	LFB	09/18/21 22:39	WI210331-13	1		1.013	mg/L	101	90	110			
WG526775PBS	PBS	09/18/21 22:41				U	mg/L		-0.01	0.01			
L68141-01AS	AS	09/18/21 22:43	WI210331-13	1	U	.955	mg/L	96	90	110			
L68141-01DUP	DUP	09/18/21 22:45			U	U	mg/L				0	20	RA

Nitrogen, ammonia (1312-DI)

M350.1 Auto Salicylate w/gas diffusion

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528024													
WG528024ICV	ICV	09/26/21 20:49	WI210713-1	11.988		12.512	mg/L	104	90	110			
WG528024ICB	ICB	09/26/21 20:51				U	mg/L		-0.05	0.05			
WG528027													
WG528027LFB	LFB	09/26/21 22:52	WI210901-5	10		9.231	mg/L	92	90	110			
WG526775PBS	PBS	09/26/21 22:53				U	mg/L		-0.05	0.05			
L68141-01AS	AS	09/26/21 22:56	WI210901-5	10	.064	9.118	mg/L	91	90	110			
L68141-01DUP	DUP	09/26/21 22:58			.064	U	mg/L				200	20	RA

Phosphorus, ortho dissolved (1312-DI)

M365.1 - Automated Ascorbic Acid

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526966													
WG526966ICV	ICV	09/11/21 1:13	WI210401-4	.65228		.67	mg/L	103	90	110			
WG526966ICB	ICB	09/11/21 1:14				U	mg/L		-0.01	0.01			
WG526969													
WG526969LFB	LFB	09/11/21 2:15	WI210907-2	.5		.506	mg/L	101	90	110			
WG526775PBS	PBS	09/11/21 2:16				U	mg/L		-0.01	0.01			
L68141-01AS	AS	09/11/21 2:19	WI210907-2	.5	.014	.438	mg/L	85	90	110			M2
L68141-01DUP	DUP	09/11/21 2:20			.014	.015	mg/L				7	20	RA

Ouray Silver Mines

ACZ Project ID: **L68141**

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.

Phosphorus, Total (1312-DI) M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526883													
WG526883ICV	ICV	09/10/21 21:34	WI210831-4	.6523		.663	mg/L	102	90	110			
WG526883ICB	ICB	09/10/21 21:37				U	mg/L		-0.01	0.01			
WG526965													
WG526917PBS	PBS	09/11/21 0:14				U	mg/L		-0.01	0.01			
WG526917LFB	LFB	09/11/21 0:15	WI210907-2	.5		.506	mg/L	101	90	110			
L68141-01DUP	DUP	09/11/21 0:17			U	U	mg/L				0	20	RA
L68141-01MS	MS	09/11/21 0:18	WI210907-2	.5	U	.55	mg/L	110	90	110			

Potassium (1312) M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527063													
WG527063ICV	ICV	09/13/21 19:10	II210823-1	20		19.8	mg/L	99	90	110			
WG527063ICB	ICB	09/13/21 19:14				U	mg/L		-0.6	0.6			
WG526773PBS	PBS	09/13/21 19:38				U	mg/L		-0.6	0.6			
WG526773LFB1	LFB	09/13/21 19:42	II210903-3	99.96008		98.95	mg/L	99	80	120			
L68141-01MS1	MS	09/13/21 19:54	II210903-3	99.96008	1.39	99.62	mg/L	98	75	125			
L68141-01MSD1	MSD	09/13/21 19:58	II210903-3	99.96008	1.39	101.1	mg/L	100	75	125	1	20	
L68141-01DUP	DUP	09/13/21 20:01			1.39	1.41	mg/L				1	20	RA

Residue, Filterable (TDS) @180C (1312) SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527181													
WG527181PBW	PBW	09/14/21 16:30				U	mg/L		-20	20			
WG527181LCSW	LCSW	09/14/21 16:33	PCN64130	1000		992	mg/L	99	80	120			
WG526775PBS	PBS	09/14/21 16:37				U	mg/L		-40	40			
L68141-01DUP	DUP	09/14/21 16:45			58	62	mg/L				7	10	RA

Residue, Non-Filter (TSS) @180C (1312-DI) SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527384													
WG527384PBW	PBW	09/16/21 13:15				U	mg/L		-5	5			
WG527384LCSW	LCSW	09/16/21 13:18	PCN64119	100		91	mg/L	91	80	120			
WG526775PBS	PBS	09/16/21 13:22				U	mg/L		-15	15			
L68141-01DUP	DUP	09/16/21 13:30			U	U	mg/L				0	10	RA

Selenium (1312) M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527407													
WG527407ICV	ICV	09/16/21 15:58	MS210727-2	.05		.05052	mg/L	101	90	110			
WG527407ICB	ICB	09/16/21 16:00				.00014	mg/L		-0.0003	0.0003			
WG526773PBS	PBS	09/16/21 16:09				U	mg/L		-0.0003	0.0003			
WG526773LFB2	LFB	09/16/21 16:11	MS210827-2	.05		.04557	mg/L	91	80	120			
L68141-01DUP	DUP	09/16/21 16:20			U	.00012	mg/L				200	20	RA
L68141-01MS2	MS	09/16/21 16:34	MS210827-2	.05	U	.0452	mg/L	90	75	125			
L68141-01MSD2	MSD	09/16/21 16:36	MS210827-2	.05	U	.04665	mg/L	93	75	125	3	20	

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ACZ Project ID: **L68141**

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.

Silica (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527063													
WG527063ICV	ICV	09/13/21 19:10	II210823-1	42.8		43.1	mg/L	101	90	110			
WG527063ICB	ICB	09/13/21 19:14				U	mg/L		-0.6	0.6			
WG526773PBS	PBS	09/13/21 19:38				U	mg/L		-0.6	0.6			
WG526773LFB1	LFB	09/13/21 19:42	II210903-3	21.404		21.56	mg/L	101	80	120			
L68141-01MS1	MS	09/13/21 19:54	II210903-3	21.404	5.7	25.75	mg/L	94	75	125			
L68141-01MSD1	MSD	09/13/21 19:58	II210903-3	21.404	5.7	27.67	mg/L	103	75	125	7	20	
L68141-01DUP	DUP	09/13/21 20:01			5.7	5.56	mg/L				2	20	

Silver (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527407													
WG527407ICV	ICV	09/16/21 15:58	MS210727-2	.02		.01959	mg/L	98	90	110			
WG527407ICB	ICB	09/16/21 16:00				U	mg/L		-0.0003	0.0003			
WG526773PBS	PBS	09/16/21 16:09				U	mg/L		-0.0003	0.0003			
WG526773LFB2	LFB	09/16/21 16:11	MS210827-2	.01002		.00931	mg/L	93	80	120			
L68141-01DUP	DUP	09/16/21 16:20			U	U	mg/L				0	20	RA
L68141-01MS2	MS	09/16/21 16:34	MS210827-2	.01002	U	.00948	mg/L	95	75	125			
L68141-01MSD2	MSD	09/16/21 16:36	MS210827-2	.01002	U	.0095	mg/L	95	75	125	0	20	

Sodium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527063													
WG527063ICV	ICV	09/13/21 19:10	II210823-1	100		100.6	mg/L	101	90	110			
WG527063ICB	ICB	09/13/21 19:14				U	mg/L		-0.6	0.6			
WG526773PBS	PBS	09/13/21 19:38				U	mg/L		-0.6	0.6			
WG526773LFB1	LFB	09/13/21 19:42	II210903-3	100.007		100.2	mg/L	100	80	120			
L68141-01MS1	MS	09/13/21 19:54	II210903-3	100.007	3.53	102.7	mg/L	99	75	125			
L68141-01MSD1	MSD	09/13/21 19:58	II210903-3	100.007	3.53	104.4	mg/L	101	75	125	2	20	
L68141-01DUP	DUP	09/13/21 20:01			3.53	3.6	mg/L				2	20	

Strontium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527063													
WG527063ICV	ICV	09/13/21 19:10	II210823-1	2		1.954	mg/L	98	90	110			
WG527063ICB	ICB	09/13/21 19:14				U	mg/L		-0.027	0.027			
WG526773PBS	PBS	09/13/21 19:38				U	mg/L		-0.027	0.027			
WG526773LFB1	LFB	09/13/21 19:42	II210903-3	.5005		.5332	mg/L	107	80	120			
L68141-01MS1	MS	09/13/21 19:54	II210903-3	.5005	.468	.9853	mg/L	103	75	125			
L68141-01MSD1	MSD	09/13/21 19:58	II210903-3	.5005	.468	1.025	mg/L	111	75	125	4	20	
L68141-01DUP	DUP	09/13/21 20:01			.468	.4263	mg/L				9	20	

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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.

Sulfate (1312-DI)

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526455													
WG526455ICV	ICV	09/07/21 21:29	WI210907-3	51.15		50.98	mg/L	100	90	110			
WG526455ICB	ICB	09/07/21 21:47				U	mg/L		-0.4	0.4			
WG526898													
WG526898LFB	LFB	09/11/21 2:32	WI210907-6	30		29.15	mg/L	97	90	110			
WG526775PBS	PBS	09/11/21 2:50				U	mg/L		-0.4	0.4			
L68141-01AS	AS	09/11/21 3:26	WI210907-6	30	4.48	37.33	mg/L	110	90	110			
L68141-01DUP	DUP	09/11/21 3:44			4.48	4.58	mg/L				2	20	

Thallium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527407													
WG527407ICV	ICV	09/16/21 15:58	MS210727-2	.05		.05192	mg/L	104	90	110			
WG527407ICB	ICB	09/16/21 16:00				U	mg/L		-0.0003	0.0003			
WG526773PBS	PBS	09/16/21 16:09				U	mg/L		-0.0003	0.0003			
WG526773LFB2	LFB	09/16/21 16:11	MS210827-2	.05		.04463	mg/L	89	80	120			
L68141-01DUP	DUP	09/16/21 16:20			U	U	mg/L				0	20	RA
L68141-01MS2	MS	09/16/21 16:34	MS210827-2	.05	U	.04481	mg/L	90	75	125			
L68141-01MSD2	MSD	09/16/21 16:36	MS210827-2	.05	U	.04491	mg/L	90	75	125	0	20	

Tin (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527063													
WG527063ICV	ICV	09/13/21 19:10	II210823-1	2		2.001	mg/L	100	90	110			
WG527063ICB	ICB	09/13/21 19:14				U	mg/L		-0.12	0.12			
WG526773PBS	PBS	09/13/21 19:38				U	mg/L		-0.12	0.12			
WG526773LFB1	LFB	09/13/21 19:42	II210903-3	1.002		1.03	mg/L	103	80	120			
L68141-01MS1	MS	09/13/21 19:54	II210903-3	1.002	U	1.013	mg/L	101	75	125			
L68141-01MSD1	MSD	09/13/21 19:58	II210903-3	1.002	U	1.031	mg/L	103	75	125	2	20	
L68141-01DUP	DUP	09/13/21 20:01			U	U	mg/L				0	20	RA

Uranium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527407													
WG527407ICV	ICV	09/16/21 15:58	MS210727-2	.05		.05057	mg/L	101	90	110			
WG527407ICB	ICB	09/16/21 16:00				U	mg/L		-0.0003	0.0003			
WG526773PBS	PBS	09/16/21 16:09				U	mg/L		-0.0003	0.0003			
WG526773LFB2	LFB	09/16/21 16:11	MS210827-2	.05		.0449	mg/L	90	80	120			
L68141-01DUP	DUP	09/16/21 16:20			U	U	mg/L				0	20	RA
L68141-01MS2	MS	09/16/21 16:34	MS210827-2	.05	U	.04633	mg/L	93	75	125			
L68141-01MSD2	MSD	09/16/21 16:36	MS210827-2	.05	U	.0462	mg/L	92	75	125	0	20	

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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.

Vanadium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527407													
WG527407ICV	ICV	09/16/21 15:58	MS210727-2	.05		.04936	mg/L	99	90	110			
WG527407ICB	ICB	09/16/21 16:00				U	mg/L		-0.0015	0.0015			
WG526773PBS	PBS	09/16/21 16:09				U	mg/L		-0.0015	0.0015			
WG526773LFB2	LFB	09/16/21 16:11	MS210827-2	.05		.04575	mg/L	92	80	120			
L68141-01DUP	DUP	09/16/21 16:20			.00067	.00131	mg/L				65	20	RA
L68141-01MS2	MS	09/16/21 16:34	MS210827-2	.05	.00067	.04678	mg/L	92	75	125			
L68141-01MSD2	MSD	09/16/21 16:36	MS210827-2	.05	.00067	.04748	mg/L	94	75	125	1	20	

Zinc (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527407													
WG527407ICV	ICV	09/16/21 15:58	MS210727-2	.05		.0495	mg/L	99	90	110			
WG527407ICB	ICB	09/16/21 16:00				U	mg/L		-0.018	0.018			
WG526773PBS	PBS	09/16/21 16:09				U	mg/L		-0.018	0.018			
WG526773LFB2	LFB	09/16/21 16:11	MS210827-2	.050075		.0478	mg/L	95	80	120			
L68141-01DUP	DUP	09/16/21 16:20			U	U	mg/L				0	20	RA
L68141-01MS2	MS	09/16/21 16:34	MS210827-2	.050075	U	.0473	mg/L	94	75	125			
L68141-01MSD2	MSD	09/16/21 16:36	MS210827-2	.050075	U	.0471	mg/L	94	75	125	0	20	

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68141-01	WG527063	Aluminum (1312)	M6010D ICP	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).
	WG527407	Beryllium (1312)	M6020B ICP-MS	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).
	WG527173	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527063	Boron (1312)	M6010D ICP	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).
	WG526898	Bromide (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	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).
	WG527407	Cadmium (1312)	M6020B ICP-MS	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).
	WG527704	Carbon, total organic (TOC) (1312-DI)	SM5310B	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			SM5310B	Q6	Sample was received above recommended temperature.
			SM5310B	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).
	WG527173	Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG526898	Chloride (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography	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).
	WG527407	Chromium (1312)	M6020B ICP-MS	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).
		Cobalt (1312)	M6020B ICP-MS	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).
	WG527173	Conductivity @25C (1312-DI)	SM2510B	Q6	Sample was received above recommended temperature.
	WG527407	Copper (1312)	M6020B ICP-MS	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).
	WG527502	Fluoride (1312 DI)	SM4500F-C	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).
	WG527173	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527063	Iron (1312)	M6010D ICP	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).
		Lithium (1312)	M6010D ICP	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).
		Magnesium (1312)	M6010D ICP	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).
	WG527013	Mercury (1312)	M7470A CVAA	Q6	Sample was received above recommended temperature.

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
			M7470A CVAA	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).
	WG527407	Nickel (1312)	M6020B ICP-MS	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).
	WG526968	Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	H1	Sample prep or analysis performed past holding time. See case narrative.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
		Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	H1	Sample prep or analysis performed past holding time. See case narrative.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	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).
	WG528027	Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M350.1 Auto Salicylate w/gas diffusion	Q6	Sample was received above recommended temperature.
			M350.1 Auto Salicylate w/gas diffusion	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).
	WG526969	Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M365.1 - Automated Ascorbic	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M365.1 - Automated Ascorbic	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).
	WG526965	Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			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).
	WG527063	Potassium (1312)	M6010D ICP	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).
	WG527181	Residue, Filterable (TDS) @180C (1312)	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).
	WG527384	Residue, Non-Filter (TSS) @180C (1312-DI)	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
	WG527407	Selenium (1312)	M6020B ICP-MS	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).
		Silver (1312)	M6020B ICP-MS	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).
	WG527063	Sodium (1312)	M6010D ICP	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
	WG526898	Sulfate (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
					referenced method hold time is observed for extraction-to-analysis.
	WG527407	Thallium (1312)	M6020B ICP-MS	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).
	WG527063	Tin (1312)	M6010D ICP	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).
	WG527173	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.
			SM2320B - Titration	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).
	WG527407	Uranium (1312)	M6020B ICP-MS	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).
		Vanadium (1312)	M6020B ICP-MS	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).
		Zinc (1312)	M6020B ICP-MS	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).

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Wet Chemistry

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Bicarbonate as CaCO ₃	SM2320B - Titration
Bromide (1312-DI)	M300.0 - Ion Chromatography
Carbonate as CaCO ₃	SM2320B - Titration
Chloride (1312-DI)	M300.0 - Ion Chromatography
Conductivity @25C (1312-DI)	SM2510B
Fluoride (1312 DI)	SM4500F-C
Hydroxide as CaCO ₃	SM2320B - Titration
Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction
Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction
Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion
Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic Acid
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)
Residue, Filterable (TDS) @180C (1312)	SM2540C
Residue, Non-Filter (TSS) @180C (1312-DI)	SM2540D
Sulfate (1312-DI)	M300.0 - Ion Chromatography
Total Alkalinity	SM2320B - Titration

Ouray Silver Mines

ACZ Project ID: L68141

Date Received: 08/30/2021 14:49

Received By:

Date Printed: 8/31/2021

Receipt Verification

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

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	☒	☐	☐
9) Are all labels on containers and are they intact and legible?	☒	☐	☐
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time? L68141-01 Container B2445505 (OTHER): The sample date/time was not present on the sample containers.	☐	☒	☐
11) For preserved bottle types, was the pH checked and within limits? ¹	☐	☐	☒
12) Is there sufficient sample volume to perform all requested work?	☒	☐	☐
13) Is the custody seal intact on all containers?	☐	☐	☒
14) Are samples that require zero headspace acceptable?	☐	☐	☒
15) Are all sample containers appropriate for analytical requirements?	☒	☐	☐
16) Is there an Hg-1631 trip blank present?	☐	☐	☒
17) Is there a VOA trip blank present?	☐	☐	☒
18) Were all samples received within hold time?	☒	☐	☐

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?
NA35812	26.5	NA	15	Yes

Was ice present in the shipment container(s)?

No - Wet or gel ice was not 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.

Ouray Silver Mines

ACZ Project ID: L68141

Date Received: 08/30/2021 14:49

Received By:

Date Printed: 8/31/2021

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).

September 13, 2021

Report to:

Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Accounts Payable, Environmental

Bill to:

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

Project ID:

ACZ Project ID: L68157

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on August 31, 2021. This project has been assigned to ACZ's project number, L68157. Please reference this number in all future inquiries.

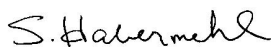
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L68157. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 13, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: OF002A

ACZ Sample ID: **L68157-01**

Date Sampled: 08/30/21 13:22

Date Received: 08/31/21

Sample Matrix: Waste Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002- 31.5.31 (2009)								09/02/21 13:36	osu/scp
Cyanide, WAD	SM4500-CN I- distillation								09/07/21 12:13	mjj1
Total Hot Plate Digestion	M200.2 ICP								09/08/21 14:04	aeh
Total Recoverable Digestion	M200.2 ICP								09/02/21 14:23	jlw

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, potentially dissolved	M200.8 ICP-MS	1	0.000729			mg/L	0.00005	0.00025	09/03/21 11:19	bsu
Copper, potentially dissolved	M200.8 ICP-MS	1	0.00203			mg/L	0.0008	0.002	09/03/21 11:19	bsu
Iron, total recoverable	M200.7 ICP	1	0.680			mg/L	0.06	0.15	09/03/21 13:40	jlw
Lead, potentially dissolved	M200.8 ICP-MS	1	0.0117			mg/L	0.0001	0.0005	09/03/21 11:19	bsu
Lead, total	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.15	09/10/21 10:38	jlw
Manganese, potentially dissolved	M200.8 ICP-MS	1	0.715			mg/L	0.0004	0.002	09/03/21 11:19	bsu
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/02/21 16:16	mlh
Silver, potentially dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/03/21 11:19	bsu
Zinc, potentially dissolved	M200.8 ICP-MS	1	0.316			mg/L	0.006	0.015	09/03/21 11:19	bsu

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	09/07/21 15:58	mjj1
pH (lab)	SM4500H+ B									
pH		1	7.8	H		units	0.1	0.1	09/09/21 0:00	emk
pH measured at		1	22.8			C	0.1	0.1	09/09/21 0:00	emk
Residue, Non- Filterable (TSS) @105C	SM2540D	1	12.0	B	*	mg/L	5	20	09/02/21 12:14	scd

Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L68157**

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.

Cadmium, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526547													
WG526547ICV	ICV	09/03/21 11:10	MS210727-2	.05		.051581	mg/L	103	90	110			
WG526547ICB	ICB	09/03/21 11:12				U	mg/L		-0.00011	0.00011			
WG526547LFB	LFB	09/03/21 11:14	MS210827-2	.05005		.052405	mg/L	105	85	115			
WG526458PBW	PBW	09/03/21 11:16				U	mg/L		-0.00015	0.00015			
L68157-01AS	AS	09/03/21 11:21	MS210827-2	.05005	.000729	.052865	mg/L	104	70	130			
L68157-01ASD	ASD	09/03/21 11:23	MS210827-2	.05005	.000729	.053183	mg/L	105	70	130	1	20	

Copper, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526547													
WG526547ICV	ICV	09/03/21 11:10	MS210727-2	.05		.05266	mg/L	105	90	110			
WG526547ICB	ICB	09/03/21 11:12				U	mg/L		-0.00176	0.00176			
WG526547LFB	LFB	09/03/21 11:14	MS210827-2	.05		.05073	mg/L	101	85	115			
WG526458PBW	PBW	09/03/21 11:16				U	mg/L		-0.0024	0.0024			
L68157-01AS	AS	09/03/21 11:21	MS210827-2	.05	.00203	.05356	mg/L	103	70	130			
L68157-01ASD	ASD	09/03/21 11:23	MS210827-2	.05	.00203	.05392	mg/L	104	70	130	1	20	

Cyanide, WAD

SM4500-CN I,E-Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526692													
WG526692ICV	ICV	09/07/21 15:36	WI210903-3	.3		.2949	mg/L	98	90	110			
WG526692ICB	ICB	09/07/21 15:37				U	mg/L		-0.003	0.003			
WG526626LRB	LRB	09/07/21 15:38				U	mg/L		-0.003	0.003			
WG526626LFB	LFB	09/07/21 15:39	WI210830-4	.2		.1913	mg/L	96	90	110			
L68133-03DUP	DUP	09/07/21 15:52			U	.0158	mg/L				200	20	RA
L68133-04LFM	LFM	09/07/21 15:54	WI210830-4	.2	U	.1984	mg/L	99	90	110			

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526563													
WG526563ICV	ICV	09/03/21 12:51	II210826-1	2		1.991	mg/L	100	95	105			
WG526563ICB	ICB	09/03/21 12:57				U	mg/L		-0.18	0.18			
WG526486LRB	LRB	09/03/21 13:10				U	mg/L		-0.132	0.132			
WG526486LFB	LFB	09/03/21 13:14	II210810-2	1.0001		1.023	mg/L	102	85	115			
L68157-01LFM	LFM	09/03/21 13:49	II210810-2	1.0001	.68	1.535	mg/L	85	70	130			
L68157-01LFMD	LFMD	09/03/21 13:52	II210810-2	1.0001	.68	1.527	mg/L	85	70	130	1	20	

Lead, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526547													
WG526547ICV	ICV	09/03/21 11:10	MS210727-2	.05		.0505	mg/L	101	90	110			
WG526547ICB	ICB	09/03/21 11:12				U	mg/L		-0.00022	0.00022			
WG526547LFB	LFB	09/03/21 11:14	MS210827-2	.05005		.05191	mg/L	104	85	115			
WG526458PBW	PBW	09/03/21 11:16				U	mg/L		-0.0003	0.0003			
L68157-01AS	AS	09/03/21 11:21	MS210827-2	.05005	.0117	.06389	mg/L	104	70	130			
L68157-01ASD	ASD	09/03/21 11:23	MS210827-2	.05005	.0117	.06426	mg/L	105	70	130	1	20	

Ouray Silver Mines

ACZ Project ID: **L68157**

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.

Lead, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526837													
WG526837ICV	ICV	09/10/21 9:21	II210823-1	4		3.955	mg/L	99	95	105			
WG526837ICB	ICB	09/10/21 9:27				U	mg/L		-0.09	0.09			
WG526722LRB	LRB	09/10/21 9:40				U	mg/L		-0.066	0.066			
WG526722LFB	LFB	09/10/21 9:43	II210903-3	1.0014		1.029	mg/L	103	85	115			
L68159-01LFM	LFM	09/10/21 10:45	II210903-3	1.0014	U	1.053	mg/L	105	70	130			
L68159-01LFMD	LFMD	09/10/21 10:48	II210903-3	1.0014	U	1.058	mg/L	106	70	130	0	20	

Manganese, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526547													
WG526547ICV	ICV	09/03/21 11:10	MS210727-2	.05		.05096	mg/L	102	90	110			
WG526547ICB	ICB	09/03/21 11:12				U	mg/L		-0.00088	0.00088			
WG526547LFB	LFB	09/03/21 11:14	MS210827-2	.0499		.0525	mg/L	105	85	115			
WG526458PBW	PBW	09/03/21 11:16				U	mg/L		-0.0012	0.0012			
L68157-01AS	AS	09/03/21 11:21	MS210827-2	.0499	.715	.76279	mg/L	96	70	130			
L68157-01ASD	ASD	09/03/21 11:23	MS210827-2	.0499	.715	.75318	mg/L	77	70	130	1	20	

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526390													
WG526390ICV1	ICV	09/02/21 14:42	HG210830-3	.00501		.00474	mg/L	95	95	105			
WG526390ICB	ICB	09/02/21 14:43				U	mg/L		-0.0002	0.0002			
WG526461													
WG526461LRB	LRB	09/02/21 16:11				U	mg/L		-0.00044	0.00044			
WG526461LFB	LFB	09/02/21 16:12	HG210830-6	.002002		.00183	mg/L	91	85	115			
L68152-01LFM	LFM	09/02/21 16:14	HG210830-6	.002002	U	.00197	mg/L	98	85	115			
L68152-01LFMD	LFMD	09/02/21 16:15	HG210830-6	.002002	U	.00199	mg/L	99	85	115	1	20	

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526876													
WG526876LCSW1	LCSW	09/09/21 16:28	PCN62948	6		6.1	units	102	5.9	6.1			
WG526876LCSW4	LCSW	09/09/21 19:22	PCN62948	6		6.1	units	102	5.9	6.1			
WG526876LCSW7	LCSW	09/09/21 22:23	PCN62948	6		6.1	units	102	5.9	6.1			
L68168-02DUP	DUP	09/10/21 0:18			7.1	7	units				1	20	
WG526876LCSW10	LCSW	09/10/21 1:50	PCN62948	6		6.1	units	102	5.9	6.1			
WG526876LCSW13	LCSW	09/10/21 4:55	PCN62948	6		6.1	units	102	5.9	6.1			

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526489													
WG526489LCSW	LCSW	09/02/21 11:45	PCN64123	100		91	mg/L	91	80	120			
WG526489PBW	PBW	09/02/21 11:46				U	mg/L		-5	5			
L68176-02DUP	DUP	09/02/21 12:29			19	22	mg/L				15	10	RA

Ouray Silver Mines

ACZ Project ID: **L68157**

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.

Silver, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526547													
WG526547ICV	ICV	09/03/21 11:10	MS210727-2	.02		.02086	mg/L	104	90	110			
WG526547ICB	ICB	09/03/21 11:12				U	mg/L		-0.00022	0.00022			
WG526547LFB	LFB	09/03/21 11:14	MS210827-2	.01002		.01134	mg/L	113	85	115			
WG526458PBW	PBW	09/03/21 11:16				U	mg/L		-0.0003	0.0003			
L68157-01AS	AS	09/03/21 11:21	MS210827-2	.01002	U	.01128	mg/L	113	70	130			
L68157-01ASD	ASD	09/03/21 11:23	MS210827-2	.01002	U	.01101	mg/L	110	70	130	2	20	

Zinc, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526547													
WG526547ICV	ICV	09/03/21 11:10	MS210727-2	.05		.05	mg/L	100	90	110			
WG526547ICB	ICB	09/03/21 11:12				U	mg/L		-0.0132	0.0132			
WG526547LFB	LFB	09/03/21 11:14	MS210827-2	.050075		.0548	mg/L	109	85	115			
WG526458PBW	PBW	09/03/21 11:16				U	mg/L		-0.018	0.018			
L68157-01AS	AS	09/03/21 11:21	MS210827-2	.050075	.316	.3646	mg/L	97	70	130			
L68157-01ASD	ASD	09/03/21 11:23	MS210827-2	.050075	.316	.3647	mg/L	97	70	130	0	20	

Ouray Silver Mines

ACZ Project ID: **L68157**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68157-01	WG526692	Cyanide, WAD	SM4500-CN I,E-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).
	WG526489	Residue, Non-Filterable (TSS) @105C	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

Ouray Silver Mines

ACZ Project ID: **L68157**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L68157

Date Received: 08/31/2021 11:03

Received By:

Date Printed: 9/1/2021

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	
The date/time was entered on the COC per the information present on the sample containers for sample(s) sampled time not present on COC. Entered on COC and for Login per sx container.. The date/time was entered on the COC per the information present on the sample containers for sample(s) sampled time not present on COC. Entered on COC and for Login per sx container..			
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?
6938	4.4	<=6.0	15	Yes

Ouray Silver Mines

ACZ Project ID: L68157

Date Received: 08/31/2021 11:03

Received By:

Date Printed: 9/1/2021

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.

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).

September 23, 2021

Report to:

Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Environmental, Accounts Payable

Bill to:

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

Project ID:

ACZ Project ID: L68295

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on September 08, 2021. This project has been assigned to ACZ's project number, L68295. Please reference this number in all future inquiries.

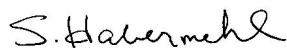
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L68295. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 23, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: UG-8

ACZ Sample ID: **L68295-01**

Date Sampled: 09/07/21 13:45

Date Received: 09/08/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						09/20/21 10:03	mjj1
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								09/10/21 13:03	bls

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	09/14/21 17:27	jlw
Antimony, dissolved	M200.8 ICP-MS	1	0.00212			mg/L	0.0004	0.002	09/15/21 12:48	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00378			mg/L	0.0002	0.001	09/15/21 12:48	mfm
Barium, dissolved	M200.7 ICP	1	0.0597			mg/L	0.007	0.035	09/14/21 17:27	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	09/15/21 12:48	mfm
Boron, dissolved	M200.7 ICP	1	0.045	B		mg/L	0.03	0.1	09/14/21 17:27	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	0.00279			mg/L	0.00005	0.00025	09/15/21 12:48	mfm
Calcium, dissolved	M200.7 ICP	1	56.5			mg/L	0.1	0.5	09/14/21 17:27	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	09/15/21 12:48	mfm
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/15/21 12:48	mfm
Iron, dissolved	M200.7 ICP	1	0.068	B		mg/L	0.06	0.15	09/14/21 17:27	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.00065			mg/L	0.0001	0.0005	09/15/21 12:48	mfm
Magnesium, dissolved	M200.7 ICP	1	3.52			mg/L	0.2	1	09/14/21 17:27	jlw
Manganese, dissolved	M200.7 ICP	1	4.64		*	mg/L	0.01	0.05	09/14/21 17:27	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/14/21 14:53	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00518			mg/L	0.0002	0.0005	09/15/21 12:48	mfm
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	09/14/21 17:27	jlw
Potassium, dissolved	M200.7 ICP	1	1.06			mg/L	0.2	1	09/14/21 17:27	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00051			mg/L	0.0001	0.00025	09/15/21 12:48	mfm
Silica, dissolved	M200.7 ICP	1	7.7			mg/L	0.2	1	09/14/21 17:27	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/15/21 12:48	mfm
Sodium, dissolved	M200.7 ICP	1	13.3			mg/L	0.2	1	09/14/21 17:27	jlw
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/15/21 12:48	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.00062			mg/L	0.0001	0.0005	09/15/21 12:48	mfm
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	09/14/21 17:27	jlw
Zinc, dissolved	M200.7 ICP	1	1.04			mg/L	0.02	0.05	09/14/21 17:27	jlw

Ouray Silver Mines

Project ID:

Sample ID: UG-8

ACZ Sample ID: **L68295-01**

Date Sampled: 09/07/21 13:45

Date Received: 09/08/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	64.1			mg/L	2	20	09/16/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	09/16/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	09/16/21 0:00	eep
Total Alkalinity		1	64.1		*	mg/L	2	20	09/16/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			6.5			%			09/23/21 0:00	calc
Sum of Anions			3.6			meq/L			09/23/21 0:00	calc
Sum of Cations			4.1			meq/L			09/23/21 0:00	calc
Chloride	SM4500Cl-E	1	0.99	B		mg/L	0.5	2	09/14/21 14:25	md
Conductivity @25C	SM2510B	1	426		*	umhos/cm	1	10	09/14/21 1:43	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	0.0090	B	*	mg/L	0.003	0.01	09/20/21 15:58	mjj1
Fluoride	SM4500F-C	1	0.32	B	*	mg/L	0.15	0.35	09/16/21 12:39	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		156			mg/L	0.2	5	09/23/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	5	10.4		*	mg/L	0.1	0.5	09/17/21 3:15	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H	*	units	0.1	0.1	09/16/21 0:00	eep
pH measured at		1	22.4			C	0.1	0.1	09/16/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid	1	0.555		*	mg/L	0.01	0.05	09/16/21 0:35	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	292			mg/L	20	40	09/13/21 13:30	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	309		*	mg/L	5	20	09/08/21 18:32	eep
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	109		*	mg/L	5	25	09/20/21 13:10	syw
TDS (calculated)	Calculation		239			mg/L			09/23/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.22						09/23/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: UG-2

ACZ Sample ID: **L68295-02**

Date Sampled: 09/07/21 12:55

Date Received: 09/08/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						09/20/21 10:13	mjj1
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								09/10/21 13:16	bls

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	09/14/21 17:31	jlw
Antimony, dissolved	M200.8 ICP-MS	1	0.00109	B		mg/L	0.0004	0.002	09/15/21 12:50	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00240			mg/L	0.0002	0.001	09/15/21 12:50	mfm
Barium, dissolved	M200.7 ICP	1	0.0412			mg/L	0.007	0.035	09/14/21 17:31	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	09/15/21 12:50	mfm
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	09/14/21 17:31	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	0.000797			mg/L	0.00005	0.00025	09/15/21 12:50	mfm
Calcium, dissolved	M200.7 ICP	1	51.6			mg/L	0.1	0.5	09/14/21 17:31	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	09/15/21 12:50	mfm
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/15/21 12:50	mfm
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	09/14/21 17:31	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.00124			mg/L	0.0001	0.0005	09/15/21 12:50	mfm
Magnesium, dissolved	M200.7 ICP	1	2.31			mg/L	0.2	1	09/14/21 17:31	jlw
Manganese, dissolved	M200.7 ICP	1	1.54		*	mg/L	0.01	0.05	09/14/21 17:31	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/14/21 14:56	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00312			mg/L	0.0002	0.0005	09/15/21 12:50	mfm
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	09/14/21 17:31	jlw
Potassium, dissolved	M200.7 ICP	1	0.64	B		mg/L	0.2	1	09/14/21 17:31	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00039			mg/L	0.0001	0.00025	09/15/21 12:50	mfm
Silica, dissolved	M200.7 ICP	1	7.0			mg/L	0.2	1	09/14/21 17:31	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/15/21 12:50	mfm
Sodium, dissolved	M200.7 ICP	1	8.25			mg/L	0.2	1	09/14/21 17:31	jlw
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/15/21 12:50	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.00032	B		mg/L	0.0001	0.0005	09/15/21 12:50	mfm
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	09/14/21 17:31	jlw
Zinc, dissolved	M200.7 ICP	1	0.276			mg/L	0.02	0.05	09/14/21 17:31	jlw

Ouray Silver Mines

Project ID:

Sample ID: UG-2

ACZ Sample ID: **L68295-02**

Date Sampled: 09/07/21 12:55

Date Received: 09/08/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	56.6			mg/L	2	20	09/17/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	09/17/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	09/17/21 0:00	eep
Total Alkalinity		1	56.6		*	mg/L	2	20	09/17/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			3.1			%			09/23/21 0:00	calc
Sum of Anions			3.1			meq/L			09/23/21 0:00	calc
Sum of Cations			3.3			meq/L			09/23/21 0:00	calc
Chloride	SM4500Cl-E	1	0.85	B		mg/L	0.5	2	09/14/21 14:25	md
Conductivity @25C	SM2510B	1	339		*	umhos/cm	1	10	09/14/21 2:29	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	0.0054	B	*	mg/L	0.003	0.01	09/20/21 15:59	mjj1
Fluoride	SM4500F-C	1	0.21	B	*	mg/L	0.15	0.35	09/16/21 12:47	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		138			mg/L	0.2	5	09/23/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	3	5.55		*	mg/L	0.06	0.3	09/17/21 3:17	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H	*	units	0.1	0.1	09/17/21 0:00	eep
pH measured at		1	22.2			C	0.1	0.1	09/17/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid	1	0.692		*	mg/L	0.01	0.05	09/16/21 0:37	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	236			mg/L	20	40	09/13/21 13:32	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	2	390		*	mg/L	10	40	09/08/21 18:34	eep
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	90.5		*	mg/L	5	25	09/20/21 13:10	syw
TDS (calculated)	Calculation		200			mg/L			09/23/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.18						09/23/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: UG-5

ACZ Sample ID: **L68295-03**

Date Sampled: 09/07/21 12:05

Date Received: 09/08/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						09/20/21 10:32	mjj1
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								09/10/21 13:29	bls

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	09/14/21 17:40	jlw
Antimony, dissolved	M200.8 ICP-MS	1	0.00138	B		mg/L	0.0004	0.002	09/15/21 12:52	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00231			mg/L	0.0002	0.001	09/15/21 12:52	mfm
Barium, dissolved	M200.7 ICP	1	0.0359			mg/L	0.007	0.035	09/14/21 17:40	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	09/15/21 12:52	mfm
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	09/14/21 17:40	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	0.000767			mg/L	0.00005	0.00025	09/15/21 12:52	mfm
Calcium, dissolved	M200.7 ICP	1	55.4			mg/L	0.1	0.5	09/14/21 17:40	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	09/15/21 12:52	mfm
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/15/21 12:52	mfm
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	09/14/21 17:40	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.00125			mg/L	0.0001	0.0005	09/15/21 12:52	mfm
Magnesium, dissolved	M200.7 ICP	1	2.58			mg/L	0.2	1	09/14/21 17:40	jlw
Manganese, dissolved	M200.7 ICP	1	1.03		*	mg/L	0.01	0.05	09/14/21 17:40	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/14/21 14:57	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00539			mg/L	0.0002	0.0005	09/15/21 12:52	mfm
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	09/14/21 17:40	jlw
Potassium, dissolved	M200.7 ICP	1	0.50	B		mg/L	0.2	1	09/14/21 17:40	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00044			mg/L	0.0001	0.00025	09/15/21 12:52	mfm
Silica, dissolved	M200.7 ICP	1	7.7			mg/L	0.2	1	09/14/21 17:40	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/15/21 12:52	mfm
Sodium, dissolved	M200.7 ICP	1	6.79			mg/L	0.2	1	09/14/21 17:40	jlw
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/15/21 12:52	mfm
Uranium, dissolved	M200.8 ICP-MS	1	0.00031	B		mg/L	0.0001	0.0005	09/15/21 12:52	mfm
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	09/14/21 17:40	jlw
Zinc, dissolved	M200.7 ICP	1	0.249			mg/L	0.02	0.05	09/14/21 17:40	jlw

Ouray Silver Mines

Project ID:

Sample ID: UG-5

ACZ Sample ID: **L68295-03**

Date Sampled: 09/07/21 12:05

Date Received: 09/08/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	59.5			mg/L	2	20	09/17/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	09/17/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	09/17/21 0:00	eep
Total Alkalinity		1	59.5			mg/L	2	20	09/17/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			1.5			%			09/23/21 0:00	calc
Sum of Anions			3.3			meq/L			09/23/21 0:00	calc
Sum of Cations			3.4			meq/L			09/23/21 0:00	calc
Chloride	SM4500Cl-E	1	0.71	B		mg/L	0.5	2	09/14/21 14:26	md
Conductivity @25C	SM2510B	1	348			umhos/cm	1	10	09/14/21 2:38	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	0.0030	B	*	mg/L	0.003	0.01	09/20/21 16:01	mjj1
Fluoride	SM4500F-C	1	0.25	B	*	mg/L	0.15	0.35	09/16/21 12:55	emk
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		149			mg/L	0.2	5	09/23/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	3.02		*	mg/L	0.02	0.1	09/17/21 2:43	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	09/17/21 0:00	eep
pH measured at		1	22.0			C	0.1	0.1	09/17/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid	1	0.060		*	mg/L	0.01	0.05	09/16/21 0:40	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	246			mg/L	20	40	09/13/21 13:34	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	27.0		*	mg/L	5	20	09/08/21 18:36	eep
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	100.0		*	mg/L	5	25	09/20/21 13:11	syw
TDS (calculated)	Calculation		214			mg/L			09/23/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.15						09/23/21 0:00	calc



Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L68295**

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
WG527411													
WG527411PBW1	PBW	09/16/21 20:34				U	mg/L		-20	20			
WG527411LCSW2	LCSW	09/16/21 20:52	WC210908-1	820.0001		806.6	mg/L	98	90	110			
WG527411LCSW4	LCSW	09/16/21 23:20	WC210908-1	820.0001		810	mg/L	99	90	110			
WG527411PBW2	PBW	09/16/21 23:26				2.5	mg/L		-20	20			
L68303-03DUP	DUP	09/17/21 0:58			92.2	92.1	mg/L				0	20	
WG527411LCSW6	LCSW	09/17/21 2:43	WC210908-1	820.0001		795	mg/L	97	90	110			
WG527411PBW3	PBW	09/17/21 2:49				U	mg/L		-20	20			
WG527411LCSW8	LCSW	09/17/21 6:04	WC210908-1	820.0001		815.1	mg/L	99	90	110			
WG527411PBW4	PBW	09/17/21 6:10				2.7	mg/L		-20	20			
WG527411LCSW10	LCSW	09/17/21 9:06	WC210908-1	820.0001		806.7	mg/L	98	90	110			

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527044													
WG527044ICV	ICV	09/14/21 16:04	II210826-1	2		2.021	mg/L	101	95	105			
WG527044ICB	ICB	09/14/21 16:10				U	mg/L		-0.15	0.15			
WG527044LFB	LFB	09/14/21 16:23	II210910-2	1.0008		1.025	mg/L	102	85	115			
L68295-03AS	AS	09/14/21 17:44	II210910-2	1.0008	U	1.04	mg/L	104	85	115			
L68295-03ASD	ASD	09/14/21 17:47	II210910-2	1.0008	U	1.038	mg/L	104	85	115	0	20	

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527240													
WG527240ICV	ICV	09/15/21 11:50	MS210727-2	.0201		.0189	mg/L	94	90	110			
WG527240ICB	ICB	09/15/21 11:52				U	mg/L		-0.00088	0.00088			
WG527240LFB	LFB	09/15/21 12:01	MS210827-2	.01		.00935	mg/L	94	85	115			
L68292-03AS	AS	09/15/21 12:40	MS210827-2	.01	U	.00956	mg/L	96	70	130			
L68292-03ASD	ASD	09/15/21 12:42	MS210827-2	.01	U	.00824	mg/L	82	70	130	15	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527240													
WG527240ICV	ICV	09/15/21 11:50	MS210727-2	.05		.04828	mg/L	97	90	110			
WG527240ICB	ICB	09/15/21 11:52				U	mg/L		-0.00044	0.00044			
WG527240LFB	LFB	09/15/21 12:01	MS210827-2	.05005		.04718	mg/L	94	85	115			
L68292-03AS	AS	09/15/21 12:40	MS210827-2	.05005	.00097	.0521	mg/L	102	70	130			
L68292-03ASD	ASD	09/15/21 12:42	MS210827-2	.05005	.00097	.05238	mg/L	103	70	130	1	20	

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527044													
WG527044ICV	ICV	09/14/21 16:04	II210826-1	2		1.999	mg/L	100	95	105			
WG527044ICB	ICB	09/14/21 16:10				U	mg/L		-0.021	0.021			
WG527044LFB	LFB	09/14/21 16:23	II210910-2	.5		.4939	mg/L	99	85	115			
L68295-03AS	AS	09/14/21 17:44	II210910-2	.5	.0359	.5242	mg/L	98	85	115			
L68295-03ASD	ASD	09/14/21 17:47	II210910-2	.5	.0359	.523	mg/L	97	85	115	0	20	

Ouray Silver Mines

ACZ Project ID: **L68295**

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
WG527240													
WG527240ICV	ICV	09/15/21 11:50	MS210727-2	.05		.050084	mg/L	100	90	110			
WG527240ICB	ICB	09/15/21 11:52				U	mg/L		-0.000176	0.000176			
WG527240LFB	LFB	09/15/21 12:01	MS210827-2	.05005		.049753	mg/L	99	85	115			
L68292-03AS	AS	09/15/21 12:40	MS210827-2	.05005	U	.049525	mg/L	99	70	130			
L68292-03ASD	ASD	09/15/21 12:42	MS210827-2	.05005	U	.05036	mg/L	101	70	130	2	20	

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527044													
WG527044ICV	ICV	09/14/21 16:04	II210826-1	2		1.978	mg/L	99	95	105			
WG527044ICB	ICB	09/14/21 16:10				U	mg/L		-0.09	0.09			
WG527044LFB	LFB	09/14/21 16:23	II210910-2	.5005		.499	mg/L	100	85	115			
L68295-03AS	AS	09/14/21 17:44	II210910-2	.5005	U	.512	mg/L	102	85	115			
L68295-03ASD	ASD	09/14/21 17:47	II210910-2	.5005	U	.514	mg/L	103	85	115	0	20	

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527240													
WG527240ICV	ICV	09/15/21 11:50	MS210727-2	.05		.051463	mg/L	103	90	110			
WG527240ICB	ICB	09/15/21 11:52				U	mg/L		-0.00011	0.00011			
WG527240LFB	LFB	09/15/21 12:01	MS210827-2	.05005		.050543	mg/L	101	85	115			
L68292-03AS	AS	09/15/21 12:40	MS210827-2	.05005	U	.051787	mg/L	103	70	130			
L68292-03ASD	ASD	09/15/21 12:42	MS210827-2	.05005	U	.052408	mg/L	105	70	130	1	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527044													
WG527044ICV	ICV	09/14/21 16:04	II210826-1	100		98.24	mg/L	98	95	105			
WG527044ICB	ICB	09/14/21 16:10				U	mg/L		-0.3	0.3			
WG527044LFB	LFB	09/14/21 16:23	II210910-2	67.98972		67.33	mg/L	99	85	115			
L68295-03AS	AS	09/14/21 17:44	II210910-2	67.98972	55.4	119	mg/L	94	85	115			
L68295-03ASD	ASD	09/14/21 17:47	II210910-2	67.98972	55.4	119.3	mg/L	94	85	115	0	20	

Chloride

SM4500Cl-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527108													
WG527108ICV	ICV	09/14/21 14:10	WI210503-1	54.89		55.76	mg/L	102	90	110			
WG527108ICB	ICB	09/14/21 14:11				.91	mg/L		-1.5	1.5			
WG527108LFB1	LFB	09/14/21 14:11	WI210908-11	29.97		32.12	mg/L	107	90	110			
L68269-05DUP	DUP	09/14/21 14:20			23.9	23.63	mg/L				1	20	
WG527108LFB2	LFB	09/14/21 14:26	WI210908-11	29.97		31.94	mg/L	107	90	110			
L68269-04AS	AS	09/14/21 14:51	5XCL	30	110	139.19	mg/L	97	90	110			

Ouray Silver Mines

ACZ Project ID: **L68295**

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
WG527240													
WG527240ICV	ICV	09/15/21 11:50	MS210727-2	.05		.05155	mg/L	103	90	110			
WG527240ICB	ICB	09/15/21 11:52				U	mg/L		-0.0011	0.0011			
WG527240LFB	LFB	09/15/21 12:01	MS210827-2	.05		.04956	mg/L	99	85	115			
L68292-03AS	AS	09/15/21 12:40	MS210827-2	.05	U	.05072	mg/L	101	70	130			
L68292-03ASD	ASD	09/15/21 12:42	MS210827-2	.05	U	.05075	mg/L	102	70	130	0	20	

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527091													
WG527091LCSW2	LCSW	09/13/21 20:05	PCN63140	1408		1396	umhos/cm	99	90	110			
WG527091LCSW5	LCSW	09/13/21 23:00	PCN63140	1408		1392	umhos/cm	99	90	110			
L68295-01DUP	DUP	09/14/21 1:51			426	424	umhos/cm				0	20	
WG527091LCSW8	LCSW	09/14/21 1:58	PCN63140	1408		1380	umhos/cm	98	90	110			
L68323-01DUP	DUP	09/14/21 3:55			625	630	umhos/cm				1	20	
WG527091LCSW11	LCSW	09/14/21 5:46	PCN63140	1408		1370	umhos/cm	97	90	110			
WG527091LCSW14	LCSW	09/14/21 9:29	PCN63140	1408		1372	umhos/cm	97	90	110			

Copper, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527240													
WG527240ICV	ICV	09/15/21 11:50	MS210727-2	.05		.05164	mg/L	103	90	110			
WG527240ICB	ICB	09/15/21 11:52				U	mg/L		-0.00176	0.00176			
WG527240LFB	LFB	09/15/21 12:01	MS210827-2	.05		.04984	mg/L	100	85	115			
L68292-03AS	AS	09/15/21 12:40	MS210827-2	.05	.00295	.05031	mg/L	95	70	130			
L68292-03ASD	ASD	09/15/21 12:42	MS210827-2	.05	.00295	.0495	mg/L	93	70	130	2	20	

Cyanide, total

M335.4 - Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527602													
WG527602ICV	ICV	09/20/21 15:54	WI210913-7	.3		.2984	mg/L	99	90	110			
WG527602ICB	ICB	09/20/21 15:55				U	mg/L		-0.003	0.003			
WG527541LRB	LRB	09/20/21 15:56				U	mg/L		-0.003	0.003			
WG527541LFB	LFB	09/20/21 15:57	WI210913-3	.2		.1994	mg/L	100	90	110			
L68295-02DUP	DUP	09/20/21 16:00			.0054	.0054	mg/L				0	20	M2 RA
L68295-03LFM	LFM	09/20/21 16:02	WI210913-3	.2	.003	.1687	mg/L	83	90	110			M2

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527353													
WG527353ICV	ICV	09/16/21 10:51	WC210903-1	2.002		2.1	mg/L	105	90	110			
WG527353ICB	ICB	09/16/21 10:56				U	mg/L		-0.3	0.3			
WG527353LFB	LFB	09/16/21 11:04	WC210803-9	5.02		4.53	mg/L	90	90	110			
L68205-01AS	AS	09/16/21 11:20	WC210803-9	5.02	3.03	7.27	mg/L	84	90	110			M2
L68205-01ASD	ASD	09/16/21 11:28	WC210803-9	5.02	3.03	7.3	mg/L	85	90	110	0	20	M2
L68295-03AS	AS	09/16/21 13:03	WC210803-9	5.02	.25	4.74	mg/L	89	90	110			M2
L68295-03ASD	ASD	09/16/21 13:11	WC210803-9	5.02	.25	4.74	mg/L	89	90	110	0	20	M2

Ouray Silver Mines

ACZ Project ID: **L68295**

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
WG527044													
WG527044ICV	ICV	09/14/21 16:04	II210826-1	2		1.99	mg/L	100	95	105			
WG527044ICB	ICB	09/14/21 16:10				U	mg/L		-0.18	0.18			
WG527044LFB	LFB	09/14/21 16:23	II210910-2	1.0001		1.015	mg/L	101	85	115			
L68295-03AS	AS	09/14/21 17:44	II210910-2	1.0001	U	1.003	mg/L	100	85	115			
L68295-03ASD	ASD	09/14/21 17:47	II210910-2	1.0001	U	1.005	mg/L	100	85	115	0	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527240													
WG527240ICV	ICV	09/15/21 11:50	MS210727-2	.05		.04931	mg/L	99	90	110			
WG527240ICB	ICB	09/15/21 11:52				U	mg/L		-0.00022	0.00022			
WG527240LFB	LFB	09/15/21 12:01	MS210827-2	.05005		.04918	mg/L	98	85	115			
L68292-03AS	AS	09/15/21 12:40	MS210827-2	.05005	U	.04843	mg/L	97	70	130			
L68292-03ASD	ASD	09/15/21 12:42	MS210827-2	.05005	U	.04875	mg/L	97	70	130	1	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527044													
WG527044ICV	ICV	09/14/21 16:04	II210826-1	100		96.26	mg/L	96	95	105			
WG527044ICB	ICB	09/14/21 16:10				U	mg/L		-0.6	0.6			
WG527044LFB	LFB	09/14/21 16:23	II210910-2	49.99828		48.03	mg/L	96	85	115			
L68295-03AS	AS	09/14/21 17:44	II210910-2	49.99828	2.58	49.94	mg/L	95	85	115			
L68295-03ASD	ASD	09/14/21 17:47	II210910-2	49.99828	2.58	50.07	mg/L	95	85	115	0	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527044													
WG527044ICV	ICV	09/14/21 16:04	II210826-1	2		1.95	mg/L	98	95	105			
WG527044ICB	ICB	09/14/21 16:10				U	mg/L		-0.03	0.03			
WG527044LFB	LFB	09/14/21 16:23	II210910-2	.5005		.499	mg/L	100	85	115			
L68295-03AS	AS	09/14/21 17:44	II210910-2	.5005	1.03	1.445	mg/L	83	85	115			M2
L68295-03ASD	ASD	09/14/21 17:47	II210910-2	.5005	1.03	1.451	mg/L	84	85	115	0	20	M2

Mercury, dissolved

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527011													
WG527011ICV	ICV	09/14/21 13:49	HG210913-3	.00501		.00516	mg/L	103	90	110			
WG527011ICB	ICB	09/14/21 13:50				U	mg/L		-0.0006	0.0006			
WG527099													
WG527099LRB	LRB	09/14/21 14:50				U	mg/L		-0.00044	0.00044			
WG527099LFB	LFB	09/14/21 14:51	HG210913-6	.002002		.0019	mg/L	95	85	115			
L68295-01LFM	LFM	09/14/21 14:54	HG210913-6	.002002	U	.00187	mg/L	93	85	115			
L68295-01LFMD	LFMD	09/14/21 14:55	HG210913-6	.002002	U	.00196	mg/L	98	85	115	5	20	

Ouray Silver Mines

ACZ Project ID: **L68295**

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.

Molybdenum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527240													
WG527240ICV	ICV	09/15/21 11:50	MS210727-2	.01992		.01938	mg/L	97	90	110			
WG527240ICB	ICB	09/15/21 11:52				U	mg/L		-0.00044	0.00044			
WG527240LFB	LFB	09/15/21 12:01	MS210827-2	.05005		.04749	mg/L	95	85	115			
L68292-03AS	AS	09/15/21 12:40	MS210827-2	.05005	.00213	.05067	mg/L	97	70	130			
L68292-03ASD	ASD	09/15/21 12:42	MS210827-2	.05005	.00213	.05142	mg/L	98	70	130	1	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527044													
WG527044ICV	ICV	09/14/21 16:04	II210826-1	2		1.9705	mg/L	99	95	105			
WG527044ICB	ICB	09/14/21 16:10				U	mg/L		-0.024	0.024			
WG527044LFB	LFB	09/14/21 16:23	II210910-2	.5		.4947	mg/L	99	85	115			
L68295-03AS	AS	09/14/21 17:44	II210910-2	.5	U	.4941	mg/L	99	85	115			
L68295-03ASD	ASD	09/14/21 17:47	II210910-2	.5	U	.4909	mg/L	98	85	115	1	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
WG527425													
WG527425ICV	ICV	09/17/21 0:44	WI210904-1	2.4161		2.364	mg/L	98	90	110			
WG527425ICB	ICB	09/17/21 0:46				U	mg/L		-0.02	0.02			
WG527428													
WG527428LFB	LFB	09/17/21 2:33	WI210331-13	2		1.982	mg/L	99	90	110			
L68206-01DUP	DUP	09/17/21 2:38			U	U	mg/L				0	20	RA
L68205-01AS	AS	09/17/21 3:14	WI210331-13	4	2.26	6.242	mg/L	100	90	110			

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527411													
WG527411LCSW1	LCSW	09/16/21 20:39	PCN62948	6		6.1	units	102	5.9	6.1			
WG527411LCSW3	LCSW	09/16/21 23:07	PCN62948	6		6.1	units	102	5.9	6.1			
L68303-03DUP	DUP	09/17/21 0:58			8.2	8.2	units				0	20	
WG527411LCSW5	LCSW	09/17/21 2:32	PCN62948	6		6.1	units	102	5.9	6.1			
WG527411LCSW7	LCSW	09/17/21 5:51	PCN62948	6		6.1	units	102	5.9	6.1			
WG527411LCSW9	LCSW	09/17/21 8:54	PCN62948	6		6.1	units	102	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
WG527311													
WG527311ICV	ICV	09/16/21 0:23	WI210831-4	.6523		.667	mg/L	102	90	110			
WG527311ICB	ICB	09/16/21 0:25				U	mg/L		-0.01	0.01			
WG526923LRB	LRB	09/16/21 0:26				U	mg/L		-0.01	0.01			
WG526923LFB	LFB	09/16/21 0:28	WI210907-2	.5		.483	mg/L	97	90	110			
L68244-02LFM	LFM	09/16/21 0:30	WI210907-2	.5	.015	.481	mg/L	93	90	110			
L68244-03DUP	DUP	09/16/21 0:32			.033	.032	mg/L				3	20	RA

Ouray Silver Mines

ACZ Project ID: **L68295**

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.

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527044													
WG527044ICV	ICV	09/14/21 16:04	II210826-1	20		19.87	mg/L	99	95	105			
WG527044ICB	ICB	09/14/21 16:10				U	mg/L		-0.6	0.6			
WG527044LFB	LFB	09/14/21 16:23	II210910-2	99.96008		98.52	mg/L	99	85	115			
L68295-03AS	AS	09/14/21 17:44	II210910-2	99.96008	.5	98.69	mg/L	98	85	115			
L68295-03ASD	ASD	09/14/21 17:47	II210910-2	99.96008	.5	98.73	mg/L	98	85	115	0	20	

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527057													
WG527057PBW	PBW	09/13/21 13:15				U	mg/L		-20	20			
WG527057LCSW	LCSW	09/13/21 13:16	PCN64130	1000		984	mg/L	98	80	120			
L68297-01DUP	DUP	09/13/21 13:40			12700	12540	mg/L				1	10	

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG526794													
WG526794PBW	PBW	09/08/21 18:10				U	mg/L		-2	2			
WG526794LCSW	LCSW	09/08/21 18:11	PCN64129	100		110	mg/L	110	80	120			
L68299-01DUP	DUP	09/08/21 18:39			5	U	mg/L				200	10	RA

Selenium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527240													
WG527240ICV	ICV	09/15/21 11:50	MS210727-2	.05		.04953	mg/L	99	90	110			
WG527240ICB	ICB	09/15/21 11:52				U	mg/L		-0.00022	0.00022			
WG527240LFB	LFB	09/15/21 12:01	MS210827-2	.05		.04882	mg/L	98	85	115			
L68292-03AS	AS	09/15/21 12:40	MS210827-2	.05	.00051	.0536	mg/L	106	70	130			
L68292-03ASD	ASD	09/15/21 12:42	MS210827-2	.05	.00051	.05445	mg/L	108	70	130	2	20	

Silica, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527044													
WG527044ICV	ICV	09/14/21 16:04	II210826-1	42.8		43.5	mg/L	102	95	105			
WG527044ICB	ICB	09/14/21 16:10				U	mg/L		-0.6	0.6			
WG527044LFB	LFB	09/14/21 16:23	II210910-2	21.404		21.84	mg/L	102	85	115			
L68295-03AS	AS	09/14/21 17:44	II210910-2	21.404	7.7	29.41	mg/L	101	85	115			
L68295-03ASD	ASD	09/14/21 17:47	II210910-2	21.404	7.7	29.71	mg/L	103	85	115	1	20	

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527240													
WG527240ICV	ICV	09/15/21 11:50	MS210727-2	.02		.02073	mg/L	104	90	110			
WG527240ICB	ICB	09/15/21 11:52				U	mg/L		-0.00022	0.00022			
WG527240LFB	LFB	09/15/21 12:01	MS210827-2	.01002		.01135	mg/L	113	85	115			
L68292-03AS	AS	09/15/21 12:40	MS210827-2	.01002	U	.01092	mg/L	109	70	130			
L68292-03ASD	ASD	09/15/21 12:42	MS210827-2	.01002	U	.009	mg/L	90	70	130	19	20	

Ouray Silver Mines

ACZ Project ID: **L68295**

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.

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527044													
WG527044ICV	ICV	09/14/21 16:04	II210826-1	100		100.6	mg/L	101	95	105			
WG527044ICB	ICB	09/14/21 16:10				U	mg/L		-0.6	0.6			
WG527044LFB	LFB	09/14/21 16:23	II210910-2	100.007		99.78	mg/L	100	85	115			
L68295-03AS	AS	09/14/21 17:44	II210910-2	100.007	6.79	106.2	mg/L	99	85	115			
L68295-03ASD	ASD	09/14/21 17:47	II210910-2	100.007	6.79	106.4	mg/L	100	85	115	0	20	

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527583													
WG527583ICB	ICB	09/20/21 12:22				U	mg/L		-3	3			
WG527583ICV	ICV	09/20/21 12:22	WI210909-1	20.46		20.1	mg/L	98	90	110			
WG527583LFB	LFB	09/20/21 12:57	WI210105-3	10		10.6	mg/L	106	90	110			
L68332-01DUP	DUP	09/20/21 13:02			13.9	12.8	mg/L				8	20	
L68512-01AS	AS	09/20/21 13:12	SO4TURB5X	10	56.8	64.8	mg/L	80	90	110			M3

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527240													
WG527240ICV	ICV	09/15/21 11:50	MS210727-2	.05		.05066	mg/L	101	90	110			
WG527240ICB	ICB	09/15/21 11:52				U	mg/L		-0.00022	0.00022			
WG527240LFB	LFB	09/15/21 12:01	MS210827-2	.05		.04822	mg/L	96	85	115			
L68292-03AS	AS	09/15/21 12:40	MS210827-2	.05	U	.04829	mg/L	97	70	130			
L68292-03ASD	ASD	09/15/21 12:42	MS210827-2	.05	U	.04822	mg/L	96	70	130	0	20	

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527240													
WG527240ICV	ICV	09/15/21 11:50	MS210727-2	.05		.04929	mg/L	99	90	110			
WG527240ICB	ICB	09/15/21 11:52				U	mg/L		-0.00022	0.00022			
WG527240LFB	LFB	09/15/21 12:01	MS210827-2	.05		.04892	mg/L	98	85	115			
L68292-03AS	AS	09/15/21 12:40	MS210827-2	.05	.00054	.05156	mg/L	102	70	130			
L68292-03ASD	ASD	09/15/21 12:42	MS210827-2	.05	.00054	.05197	mg/L	103	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
WG527044													
WG527044ICV	ICV	09/14/21 16:04	II210826-1	2		1.962	mg/L	98	95	105			
WG527044ICB	ICB	09/14/21 16:10				U	mg/L		-0.015	0.015			
WG527044LFB	LFB	09/14/21 16:23	II210910-2	.5005		.4949	mg/L	99	85	115			
L68295-03AS	AS	09/14/21 17:44	II210910-2	.5005	U	.4905	mg/L	98	85	115			
L68295-03ASD	ASD	09/14/21 17:47	II210910-2	.5005	U	.489	mg/L	98	85	115	0	20	

Ouray Silver Mines

ACZ Project ID: **L68295**

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.

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527044													
WG527044ICV	ICV	09/14/21 16:04	II210826-1	2		1.967	mg/L	98	95	105			
WG527044ICB	ICB	09/14/21 16:10				U	mg/L		-0.06	0.06			
WG527044LFB	LFB	09/14/21 16:23	II210910-2	.50045		.513	mg/L	103	85	115			
L68295-03AS	AS	09/14/21 17:44	II210910-2	.50045	.249	.747	mg/L	100	85	115			
L68295-03ASD	ASD	09/14/21 17:47	II210910-2	.50045	.249	.746	mg/L	99	85	115	0	20	

Ouray Silver Mines

ACZ Project ID: **L68295**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68295-01	WG527091	Conductivity @25C	SM2510B	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
	WG527602	Cyanide, total	M335.4 - Colorimetric w/ distillation	M2	Matrix spike recovery was low, 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).
	WG527353	Fluoride	SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG527044	Manganese, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG527428	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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).
	WG527411	pH	SM4500H+ B	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
	WG527311	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).
	WG526794	Residue, Non-Filterable (TSS) @105C	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).
	WG527583	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.
	WG527411	Total Alkalinity	SM2320B - Titration	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
L68295-02	WG527091	Conductivity @25C	SM2510B	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
	WG527602	Cyanide, total	M335.4 - Colorimetric w/ distillation	M2	Matrix spike recovery was low, 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).
	WG527353	Fluoride	SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG527044	Manganese, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG527428	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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).
	WG527411	pH	SM4500H+ B	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
	WG527311	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).
	WG526794	Residue, Non-Filterable (TSS) @105C	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).
	WG527583	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.
	WG527411	Total Alkalinity	SM2320B - Titration	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.

Ouray Silver Mines

ACZ Project ID: **L68295**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68295-03	WG527602	Cyanide, total	M335.4 - Colorimetric w/ distillation	M2	Matrix spike recovery was low, 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).
	WG527353	Fluoride	SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG527044	Manganese, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG527428	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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).
	WG527311	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).
	WG526794	Residue, Non-Filterable (TSS) @105C	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).
	WG527583	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.

Ouray Silver Mines

ACZ Project ID: L68295

Date Received: 09/08/2021 09:48

Received By:

Date Printed: 9/9/2021

Receipt Verification

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

Samples/Containers

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

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?
-----	-----	-----	-----	-----
6757	6.4	<=6.0	15	Yes

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.

Ouray Silver Mines

ACZ Project ID: L68295

Date Received: 09/08/2021 09:48

Received By:

Date Printed: 9/9/2021

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).



Laboratories, Inc. **LG8295**

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

CHAIN of CUSTODY

Report to:

Name: Briana Greer Address: 112 Village Square W. Suite 205
 Company: Solid Solution Geosciences Ridgway, CO 81432
 E-mail: briana@solidsolutiongeosciences.com Telephone: 307-760-8838

Copy of Report to:

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

Invoice to:

Name: Ashlee Briggs Address: P.O. Box 564
 Company: Ouray Silver Mines Inc Ouray, CO 81427
 E-mail: abriggs@ouraysilvermines.com Telephone: _____

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 ☒
NO ☐

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 ☒

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

Sampler's Name: Toshua Moore Sampler's Site Information State CO Zip code 81427 Time Zone Mtn

*Sampler's 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

ANALYSES REQUESTED (attach list or use quote number)

Quote #: GW

PO#: _____

Reporting state for compliance testing: CO

Check box if samples include NRC licensed material? ☐

SAMPLE IDENTIFICATION DATE: TIME Matrix

SAMPLE IDENTIFICATION	DATE: TIME	Matrix
UG-8	9/7/21 13:45-13:55	GW
UG-2	9/7/21 12:55-13:05	GW
UG-5	9/7/21 12:05-12:25	GW

of Containers

GW

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

<u>Toshua Moore</u>	<u>9/7/21 15:40</u>	<u>DM</u>	<u>9/8/21 9:48</u>



68295 Chain of Custody

October 01, 2021

Report to:

Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Environmental, Accounts Payable

Bill to:

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

Project ID:

ACZ Project ID: L68339

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on September 09, 2021. This project has been assigned to ACZ's project number, L68339. 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 L68339. 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 31, 2021. 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.



Sue Webber has reviewed and
approved this report.



Ouray Silver Mines

Project ID:

Sample ID: SW1

ACZ Sample ID: **L68339-01**

Date Sampled: 09/08/21 13:19

Date Received: 09/09/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								09/22/21 9:15	mfm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0258			mg/L	0.005	0.015	09/15/21 16:12	mfm
Aluminum, total recoverable	M200.8 ICP-MS	1	0.0401			mg/L	0.005	0.015	09/15/21 13:43	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00024	B		mg/L	0.0002	0.001	09/15/21 16:12	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00093	B		mg/L	0.0002	0.001	09/15/21 13:43	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.00138			mg/L	0.00005	0.00025	09/15/21 16:12	mfm
Calcium, dissolved	M200.7 ICP	1	34.2			mg/L	0.1	0.5	09/13/21 18:39	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/15/21 16:12	mfm
Iron, dissolved	M200.8 ICP-MS	1	0.0083	B	*	mg/L	0.007	0.02	09/15/21 16:12	mfm
Iron, total recoverable	M200.8 ICP-MS	1	0.168		*	mg/L	0.007	0.02	09/27/21 13:39	mmf
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/15/21 16:12	mfm
Magnesium, dissolved	M200.7 ICP	1	2.01			mg/L	0.2	1	09/15/21 18:43	kja
Manganese, dissolved	M200.7 ICP	1	0.859			mg/L	0.01	0.05	09/13/21 18:39	kja
Mercury, total	M1631E, Atomic Fluorescence	1	<0.3	U		ng/L	0.3	1	09/15/21 11:10	mfm
Potassium, dissolved	M200.7 ICP	1	0.54	B		mg/L	0.2	1	09/13/21 18:39	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/15/21 16:12	mfm
Sodium, dissolved	M200.7 ICP	1	3.07			mg/L	0.2	1	09/13/21 18:39	kja
Zinc, dissolved	M200.7 ICP	1	0.352			mg/L	0.02	0.05	09/13/21 18:39	kja

Ouray Silver Mines

Project ID:

Sample ID: SW1

ACZ Sample ID: **L68339-01**

Date Sampled: 09/08/21 13:19

Date Received: 09/09/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	27.4		*	mg/L	2	20	09/20/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	09/20/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	09/20/21 0:00	eep
Total Alkalinity		1	27.4		*	mg/L	2	20	09/20/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	<1	U	*	mg/L	1	5	09/16/21 23:11	md
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			10/01/21 0:00	calc
Sum of Anions			2.1			meq/L			10/01/21 0:00	calc
Sum of Cations			2.1			meq/L			10/01/21 0:00	calc
Chloride	SM4500Cl-E	1	0.80	B	*	mg/L	0.5	2	09/20/21 14:47	md
Fluoride	SM4500F-C	1	<0.15	U	*	mg/L	0.15	0.35	09/20/21 14:59	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		94			mg/L	0.2	5	10/01/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.255		*	mg/L	0.02	0.1	09/17/21 2:45	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	136		*	mg/L	20	40	09/13/21 16:13	anc
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	09/14/21 11:37	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	73.9		*	mg/L	5	25	09/21/21 11:55	wtc
TDS (calculated)	Calculation		132			mg/L			10/01/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.03						10/01/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW3

ACZ Sample ID: **L68339-02**

Date Sampled: 09/08/21 12:23

Date Received: 09/09/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								09/22/21 9:15	mfm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	<0.005	U		mg/L	0.005	0.015	09/15/21 16:14	mfm
Aluminum, total recoverable	M200.8 ICP-MS	1	0.0195			mg/L	0.005	0.015	09/15/21 13:45	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00081	B		mg/L	0.0002	0.001	09/15/21 16:14	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00085	B		mg/L	0.0002	0.001	09/15/21 13:45	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000317			mg/L	0.00005	0.00025	09/15/21 16:14	mfm
Calcium, dissolved	M200.7 ICP	1	40.0			mg/L	0.1	0.5	09/13/21 18:42	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/15/21 16:14	mfm
Iron, dissolved	M200.8 ICP-MS	1	<0.007	U	*	mg/L	0.007	0.02	09/15/21 16:14	mfm
Iron, total recoverable	M200.8 ICP-MS	1	0.0174	B	*	mg/L	0.007	0.02	09/27/21 13:41	mfm
Lead, dissolved	M200.8 ICP-MS	1	0.00015	B		mg/L	0.0001	0.0005	09/15/21 16:14	mfm
Magnesium, dissolved	M200.7 ICP	1	2.52			mg/L	0.2	1	09/15/21 18:46	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	09/13/21 18:42	kja
Mercury, total	M1631E, Atomic Fluorescence	1	0.51	B		ng/L	0.3	1	09/15/21 11:14	mfm
Potassium, dissolved	M200.7 ICP	1	0.82	B		mg/L	0.2	1	09/13/21 18:42	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/15/21 16:14	mfm
Sodium, dissolved	M200.7 ICP	1	3.97			mg/L	0.2	1	09/13/21 18:42	kja
Zinc, dissolved	M200.7 ICP	1	0.226			mg/L	0.02	0.05	09/13/21 18:42	kja

Ouray Silver Mines

Project ID:

Sample ID: SW3

ACZ Sample ID: **L68339-02**

Date Sampled: 09/08/21 12:23

Date Received: 09/09/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	37.8		*	mg/L	2	20	09/20/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	09/20/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	09/20/21 0:00	eep
Total Alkalinity		1	37.8		*	mg/L	2	20	09/20/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	<1	U	*	mg/L	1	5	09/16/21 23:24	md
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			10/01/21 0:00	calc
Sum of Anions			2.4			meq/L			10/01/21 0:00	calc
Sum of Cations			2.4			meq/L			10/01/21 0:00	calc
Chloride	SM4500Cl-E	1	1.46	B	*	mg/L	0.5	2	09/20/21 14:48	md
Fluoride	SM4500F-C	1	0.22	B	*	mg/L	0.15	0.35	09/20/21 15:07	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		110			mg/L	0.2	5	10/01/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	1.16		*	mg/L	0.02	0.1	09/17/21 2:50	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	164		*	mg/L	20	40	09/13/21 16:48	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	09/14/21 11:43	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	76.5		*	mg/L	5	25	09/21/21 11:55	wtc
TDS (calculated)	Calculation		149			mg/L			10/01/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.10						10/01/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW4

ACZ Sample ID: **L68339-03**

Date Sampled: 09/08/21 11:37

Date Received: 09/09/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								09/22/21 9:15	mfm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0146	B		mg/L	0.005	0.015	09/15/21 16:16	mfm
Aluminum, total recoverable	M200.8 ICP-MS	1	0.0995			mg/L	0.005	0.015	09/15/21 13:47	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00091	B		mg/L	0.0002	0.001	09/15/21 16:16	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00121			mg/L	0.0002	0.001	09/15/21 13:47	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000153	B		mg/L	0.00005	0.00025	09/15/21 16:16	mfm
Calcium, dissolved	M200.7 ICP	1	33.9			mg/L	0.1	0.5	09/13/21 18:45	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/15/21 16:16	mfm
Iron, dissolved	M200.8 ICP-MS	1	0.0132	B	*	mg/L	0.007	0.02	09/15/21 16:16	mfm
Iron, total recoverable	M200.8 ICP-MS	1	0.117		*	mg/L	0.007	0.02	09/27/21 13:42	mfm
Lead, dissolved	M200.8 ICP-MS	1	0.00053			mg/L	0.0001	0.0005	09/15/21 16:16	mfm
Magnesium, dissolved	M200.7 ICP	1	2.50			mg/L	0.2	1	09/15/21 18:49	kja
Manganese, dissolved	M200.7 ICP	1	0.076			mg/L	0.01	0.05	09/13/21 18:45	kja
Mercury, total	M1631E, Atomic Fluorescence	1	0.74	B		ng/L	0.3	1	09/15/21 11:19	mfm
Potassium, dissolved	M200.7 ICP	1	0.63	B		mg/L	0.2	1	09/13/21 18:45	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/15/21 16:16	mfm
Sodium, dissolved	M200.7 ICP	1	3.31			mg/L	0.2	1	09/13/21 18:45	kja
Zinc, dissolved	M200.7 ICP	1	0.093			mg/L	0.02	0.05	09/13/21 18:45	kja

Ouray Silver Mines

Project ID:

Sample ID: SW4

ACZ Sample ID: **L68339-03**

Date Sampled: 09/08/21 11:37

Date Received: 09/09/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	39.5		*	mg/L	2	20	09/20/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	09/20/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	09/20/21 0:00	eep
Total Alkalinity		1	39.5		*	mg/L	2	20	09/20/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	1.3	B	*	mg/L	1	5	09/16/21 23:36	md
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			10/01/21 0:00	calc
Sum of Anions			2.1			meq/L			10/01/21 0:00	calc
Sum of Cations			2.1			meq/L			10/01/21 0:00	calc
Chloride	SM4500Cl-E	1	1.25	B	*	mg/L	0.5	2	09/20/21 14:49	md
Fluoride	SM4500F-C	1	0.20	B	*	mg/L	0.15	0.35	09/20/21 15:15	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		95			mg/L	0.2	5	10/01/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.476		*	mg/L	0.02	0.1	09/17/21 2:52	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	136		*	mg/L	20	40	09/13/21 16:50	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	09/14/21 11:45	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	60.8		*	mg/L	5	25	09/21/21 13:53	wtc
TDS (calculated)	Calculation		127			mg/L			10/01/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.07						10/01/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW99

ACZ Sample ID: **L68339-04**

Date Sampled: 09/08/21 14:34

Date Received: 09/09/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								09/22/21 9:15	mfm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0064	B		mg/L	0.005	0.015	09/15/21 16:18	mfm
Aluminum, total recoverable	M200.8 ICP-MS	1	0.0641			mg/L	0.005	0.015	09/15/21 13:48	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00094	B		mg/L	0.0002	0.001	09/15/21 16:18	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00124			mg/L	0.0002	0.001	09/15/21 13:48	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000123	B		mg/L	0.00005	0.00025	09/15/21 16:18	mfm
Calcium, dissolved	M200.7 ICP	1	27.8			mg/L	0.1	0.5	09/13/21 18:48	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/15/21 16:18	mfm
Iron, dissolved	M200.8 ICP-MS	1	<0.007	U	*	mg/L	0.007	0.02	09/15/21 16:18	mfm
Iron, total recoverable	M200.8 ICP-MS	1	0.0629		*	mg/L	0.007	0.02	09/27/21 13:44	mmf
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/15/21 16:18	mfm
Magnesium, dissolved	M200.7 ICP	1	2.50			mg/L	0.2	1	09/15/21 18:52	kja
Manganese, dissolved	M200.7 ICP	1	0.014	B		mg/L	0.01	0.05	09/13/21 18:48	kja
Mercury, total	M1631E, Atomic Fluorescence	1	0.48	B		ng/L	0.3	1	09/15/21 11:24	mfm
Potassium, dissolved	M200.7 ICP	1	0.55	B		mg/L	0.2	1	09/13/21 18:48	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/15/21 16:18	mfm
Sodium, dissolved	M200.7 ICP	1	2.14			mg/L	0.2	1	09/13/21 18:48	kja
Zinc, dissolved	M200.7 ICP	1	0.039	B		mg/L	0.02	0.05	09/13/21 18:48	kja

Ouray Silver Mines

Project ID:

Sample ID: SW99

ACZ Sample ID: **L68339-04**

Date Sampled: 09/08/21 14:34

Date Received: 09/09/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	34.9		*	mg/L	2	20	09/20/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	09/20/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	09/20/21 0:00	eep
Total Alkalinity		1	34.9		*	mg/L	2	20	09/20/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	<1	U	*	mg/L	1	5	09/16/21 23:48	md
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-2.9			%			10/01/21 0:00	calc
Sum of Anions			1.8			meq/L			10/01/21 0:00	calc
Sum of Cations			1.7			meq/L			10/01/21 0:00	calc
Chloride	SM4500Cl-E	1	0.71	B	*	mg/L	0.5	2	09/20/21 14:50	md
Fluoride	SM4500F-C	1	0.18	B	*	mg/L	0.15	0.35	09/20/21 15:23	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		80			mg/L	0.2	5	10/01/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.059	B	*	mg/L	0.02	0.1	09/17/21 2:53	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	116		*	mg/L	20	40	09/13/21 16:52	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	09/14/21 11:48	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	49.7		*	mg/L	5	25	09/21/21 13:52	wtc
TDS (calculated)	Calculation		105			mg/L			10/01/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.10						10/01/21 0:00	calc


Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L68339**

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
WG527612													
WG527612PBW1	PBW	09/20/21 20:36				7.4	mg/L		-20	20			
WG527612LCSW3	LCSW	09/20/21 20:54	WC210917-2	820.0001		775	mg/L	95	90	110			
L68339-03DUP	DUP	09/20/21 22:41			39.5	39.4	mg/L				0	20	
L68394-04DUP	DUP	09/21/21 0:25			778	762.3	mg/L				2	20	
WG527612LCSW6	LCSW	09/21/21 0:45	WC210917-2	820.0001		813.6	mg/L	99	90	110			
WG527612PBW2	PBW	09/21/21 0:52				U	mg/L		-20	20			
WG527612LCSW9	LCSW	09/21/21 4:27	WC210917-2	820.0001		801.6	mg/L	98	90	110			
WG527612PBW3	PBW	09/21/21 4:35				U	mg/L		-20	20			
WG527612LCSW12	LCSW	09/21/21 11:46	WC210917-2	820.0001		819.6	mg/L	100	90	110			
WG527612PBW4	PBW	09/21/21 11:53				U	mg/L		-20	20			
WG527612LCSW15	LCSW	09/21/21 15:41	WC210917-2	820.0001		828.1	mg/L	101	90	110			

Aluminum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527281													
WG527281ICV	ICV	09/15/21 15:43	MS210727-2	.1		.0987	mg/L	99	90	110			
WG527281ICB	ICB	09/15/21 15:45				U	mg/L		-0.011	0.011			
WG527281LFB	LFB	09/15/21 15:47	MS210827-2	.050065		.0461	mg/L	92	85	115			
L68220-04AS	AS	09/15/21 15:55	MS210827-2	.050065	U	.0445	mg/L	89	70	130			
L68220-04ASD	ASD	09/15/21 15:57	MS210827-2	.050065	U	.0452	mg/L	90	70	130	2	20	
L68342-02AS	AS	09/15/21 16:24	MS210827-2	.050065	.0063	.0505	mg/L	88	70	130			
L68342-02ASD	ASD	09/15/21 16:26	MS210827-2	.050065	.0063	.0525	mg/L	92	70	130	4	20	

Aluminum, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527250													
WG527250ICV	ICV	09/15/21 13:04	MS210727-2	.1		.1028	mg/L	103	90	110			
WG527250ICB	ICB	09/15/21 13:06				U	mg/L		-0.015	0.015			
WG527093LRB	LRB	09/15/21 13:09				U	mg/L		-0.011	0.011			
WG527093LFB	LFB	09/15/21 13:11	MS210827-2	.050065		.0493	mg/L	98	85	115			
L68342-03LFM	LFM	09/15/21 13:59	MS210827-2	.050065	.065	.1058	mg/L	81	70	130			
L68342-03LFMD	LFMD	09/15/21 14:01	MS210827-2	.050065	.065	.1079	mg/L	86	70	130	2	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527281													
WG527281ICV	ICV	09/15/21 15:43	MS210727-2	.05		.04887	mg/L	98	90	110			
WG527281ICB	ICB	09/15/21 15:45				U	mg/L		-0.00044	0.00044			
WG527281LFB	LFB	09/15/21 15:47	MS210827-2	.05005		.04695	mg/L	94	85	115			
L68220-04AS	AS	09/15/21 15:55	MS210827-2	.05005	.00049	.05229	mg/L	103	70	130			
L68220-04ASD	ASD	09/15/21 15:57	MS210827-2	.05005	.00049	.05264	mg/L	104	70	130	1	20	
L68342-02AS	AS	09/15/21 16:24	MS210827-2	.05005	.00098	.05219	mg/L	102	70	130			
L68342-02ASD	ASD	09/15/21 16:26	MS210827-2	.05005	.00098	.05322	mg/L	104	70	130	2	20	

Ouray Silver Mines

ACZ Project ID: **L68339**

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.

Arsenic, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527250													
WG527250ICV	ICV	09/15/21 13:04	MS210727-2	.05		.05106	mg/L	102	90	110			
WG527250ICB	ICB	09/15/21 13:06				U	mg/L		-0.0006	0.0006			
WG527093LRB	LRB	09/15/21 13:09				U	mg/L		-0.00044	0.00044			
WG527093LFB	LFB	09/15/21 13:11	MS210827-2	.05005		.04787	mg/L	96	85	115			
L68342-03LFM	LFM	09/15/21 13:59	MS210827-2	.05005	.00117	.05262	mg/L	103	70	130			
L68342-03LFMD	LFMD	09/15/21 14:01	MS210827-2	.05005	.00117	.0509	mg/L	99	70	130	3	20	

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527281													
WG527281ICV	ICV	09/15/21 15:43	MS210727-2	.05		.052013	mg/L	104	90	110			
WG527281ICB	ICB	09/15/21 15:45				U	mg/L		-0.00011	0.00011			
WG527281LFB	LFB	09/15/21 15:47	MS210827-2	.05005		.048455	mg/L	97	85	115			
L68220-04AS	AS	09/15/21 15:55	MS210827-2	.05005	U	.047096	mg/L	94	70	130			
L68220-04ASD	ASD	09/15/21 15:57	MS210827-2	.05005	U	.048108	mg/L	96	70	130	2	20	
L68342-02AS	AS	09/15/21 16:24	MS210827-2	.05005	.000121	.048143	mg/L	96	70	130			
L68342-02ASD	ASD	09/15/21 16:26	MS210827-2	.05005	.000121	.051776	mg/L	103	70	130	7	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527079													
WG527079ICV	ICV	09/13/21 18:17	II210826-1	100		96.01	mg/L	96	95	105			
WG527079ICB	ICB	09/13/21 18:23				U	mg/L		-0.3	0.3			
WG527079LFB	LFB	09/13/21 18:36	II210910-2	67.98972		64.96	mg/L	96	85	115			
L68342-02AS	AS	09/13/21 18:57	II210910-2	67.98972	28.1	92.16	mg/L	94	85	115			
L68342-02ASD	ASD	09/13/21 19:00	II210910-2	67.98972	28.1	91.16	mg/L	93	85	115	1	20	

Carbon, dissolved organic (DOC)

SM5310B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519681													
WG519681ICV	ICV	05/21/21 18:53	WI210521-3	100		101.3	mg/L	101	90	110			
WG519681ICB	ICB	05/21/21 19:05				U	mg/L		-3	3			
WG527399													
WG527399LFB	LFB	09/16/21 21:50	WI210817-3	50		52.1	mg/L	104	90	110			
L68328-01DUP	DUP	09/16/21 22:17			6.7	6.8	mg/L				1	20	RA
L68328-02AS	AS	09/16/21 22:46	WI210817-3	50	6.6	58.4	mg/L	104	90	110			

Chloride

SM4500CI-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527589													
WG527589ICV	ICV	09/20/21 14:42	WI210503-1	54.89		52.1	mg/L	95	90	110			
WG527589ICB	ICB	09/20/21 14:43				.95	mg/L		-1.5	1.5			
WG527589LFB1	LFB	09/20/21 14:43	WI210908-11	29.97		27.71	mg/L	92	90	110			
L68328-01DUP	DUP	09/20/21 14:45			70.8	67.46	mg/L				5	20	
WG527589LFB2	LFB	09/20/21 14:58	WI210908-11	29.97		28.56	mg/L	95	90	110			
L68213-03AS	AS	09/20/21 15:35	WI210908-11	29.97	19.5	54.75	mg/L	118	90	110			M1

Ouray Silver Mines

ACZ Project ID: **L68339**

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.

Copper, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527281													
WG527281ICV	ICV	09/15/21 15:43	MS210727-2	.05		.05235	mg/L	105	90	110			
WG527281ICB	ICB	09/15/21 15:45				U	mg/L		-0.00176	0.00176			
WG527281LFB	LFB	09/15/21 15:47	MS210827-2	.05		.04914	mg/L	98	85	115			
L68220-04AS	AS	09/15/21 15:55	MS210827-2	.05	U	.04952	mg/L	99	70	130			
L68220-04ASD	ASD	09/15/21 15:57	MS210827-2	.05	U	.04993	mg/L	100	70	130	1	20	
L68342-02AS	AS	09/15/21 16:24	MS210827-2	.05	U	.04954	mg/L	99	70	130			
L68342-02ASD	ASD	09/15/21 16:26	MS210827-2	.05	U	.05044	mg/L	101	70	130	2	20	

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527572													
WG527572ICV	ICV	09/20/21 13:14	WC210920-1	2.002		2.11	mg/L	105	90	110			
WG527572ICB	ICB	09/20/21 13:20				U	mg/L		-0.3	0.3			
WG527572LFB1	LFB	09/20/21 13:27	WC210803-9	5.02		5.31	mg/L	106	90	110			
L68260-02AS	AS	09/20/21 13:51	WC210803-9	5.02	.17	5.31	mg/L	102	90	110			
L68260-02ASD	ASD	09/20/21 13:59	WC210803-9	5.02	.17	5.33	mg/L	103	90	110	0	20	
L68344-03AS	AS	09/20/21 16:37	WC210803-9	5.02	.89	6.18	mg/L	105	90	110			
L68344-03ASD	ASD	09/20/21 16:45	WC210803-9	5.02	.89	6.15	mg/L	105	90	110	0	20	
WG527572LFB2	LFB	09/20/21 17:03	WC210803-9	5.02		5.38	mg/L	107	90	110			

Iron, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527281													
WG527281ICV	ICV	09/15/21 15:43	MS210727-2	.10016		.0979	mg/L	98	90	110			
WG527281ICB	ICB	09/15/21 15:45				U	mg/L		-0.0154	0.0154			
WG527281LFB	LFB	09/15/21 15:47	MS210827-2	.0501		.0501	mg/L	100	85	115			
L68220-04AS	AS	09/15/21 15:55	MS210827-2	.0501	.0734	.1146	mg/L	82	70	130			
L68220-04ASD	ASD	09/15/21 15:57	MS210827-2	.0501	.0734	.1156	mg/L	84	70	130	1	20	
L68342-02AS	AS	09/15/21 16:24	MS210827-2	.0501	U	.0507	mg/L	101	70	130			
L68342-02ASD	ASD	09/15/21 16:26	MS210827-2	.0501	U	.0519	mg/L	104	70	130	2	20	

Iron, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528102													
WG528102ICV	ICV	09/27/21 13:28	MS210727-2	.10016		.0949	mg/L	95	90	110			
WG528102ICB	ICB	09/27/21 13:30				U	mg/L		-0.021	0.021			
WG527725LRB	LRB	09/27/21 13:31				U	mg/L		-0.0154	0.0154			
WG527725LFB	LFB	09/27/21 13:33	MS210827-2	.0501		.0463	mg/L	92	85	115			
L68514-01LFM	LFM	09/27/21 13:57	MS210827-2	.0501	.0147	.0599	mg/L	90	70	130			
L68514-01LFMD	LFMD	09/27/21 13:59	MS210827-2	.0501	.0147	.0602	mg/L	91	70	130	0	20	

Ouray Silver Mines

ACZ Project ID: **L68339**

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.

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527281													
WG527281ICV	ICV	09/15/21 15:43	MS210727-2	.05		.0487	mg/L	97	90	110			
WG527281ICB	ICB	09/15/21 15:45				U	mg/L		-0.00022	0.00022			
WG527281LFB	LFB	09/15/21 15:47	MS210827-2	.05005		.04634	mg/L	93	85	115			
L68220-04AS	AS	09/15/21 15:55	MS210827-2	.05005	U	.04613	mg/L	92	70	130			
L68220-04ASD	ASD	09/15/21 15:57	MS210827-2	.05005	U	.04663	mg/L	93	70	130	1	20	
L68342-02AS	AS	09/15/21 16:24	MS210827-2	.05005	U	.04663	mg/L	93	70	130			
L68342-02ASD	ASD	09/15/21 16:26	MS210827-2	.05005	U	.04823	mg/L	96	70	130	3	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527113													
WG527113ICV	ICV	09/15/21 18:21	II210826-1	100		97.62	mg/L	98	95	105			
WG527113ICB	ICB	09/15/21 18:27				U	mg/L		-0.6	0.6			
WG527113LFB	LFB	09/15/21 18:40	II210910-2	49.99828		47.53	mg/L	95	85	115			
L68342-02AS	AS	09/15/21 19:01	II210910-2	49.99828	2.46	49.78	mg/L	95	85	115			
L68342-02ASD	ASD	09/15/21 19:04	II210910-2	49.99828	2.46	50.85	mg/L	97	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
WG527079													
WG527079ICV	ICV	09/13/21 18:17	II210826-1	2		1.921	mg/L	96	95	105			
WG527079ICB	ICB	09/13/21 18:23				U	mg/L		-0.03	0.03			
WG527079LFB	LFB	09/13/21 18:36	II210910-2	.5005		.476	mg/L	95	85	115			
L68342-02AS	AS	09/13/21 18:57	II210910-2	.5005	.016	.5	mg/L	97	85	115			
L68342-02ASD	ASD	09/13/21 19:00	II210910-2	.5005	.016	.493	mg/L	95	85	115	1	20	

Mercury, total

M1631E, Atomic Fluorescence

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523056													
WG523056ICV1	ICV	07/13/21 11:31	HG210709-4	10		10.2	ng/L	102	79	121			
WG523056ICB1	ICB	07/13/21 11:36				U	ng/L		-0.501	0.501			
WG527214													
WG527214CCV1	CCV	09/15/21 9:10	HG210709-4	10		10.4	ng/L	104	76.5	123.4			
WG527214CCB1	CCB	09/15/21 9:15				U	ng/L		-0.501	0.501			
WG527214PQV	PQV	09/15/21 9:20	HG210709-6	1		1.05	ng/L	105	70	130			
WG527214LFB	LFB	09/15/21 9:25	HG210709-5	2		2	ng/L	100	71	125			
L68286-01MS	MS	09/15/21 10:36	HG210709-5	2	2.71	4.63	ng/L	96	71	125			
L68286-01MSD	MSD	09/15/21 10:41	HG210709-5	2	2.71	4.56	ng/L	93	71	125	2	24	
WG527214CCV2	CCV	09/15/21 10:46	HG210709-4	10		9.98	ng/L	100	76.5	123.4			
WG527214CCB2	CCB	09/15/21 10:51				U	ng/L		-0.501	0.501			
L68342-02MS	MS	09/15/21 11:38	HG210709-5	2	1.99	3.89	ng/L	95	71	125			
WG527214CCV3	CCV	09/15/21 11:43	HG210709-4	10		9.83	ng/L	98	76.5	123.4			
WG527214CCB3	CCB	09/15/21 11:48				U	ng/L		-0.501	0.501			
L68342-02MSD	MSD	09/15/21 11:53	HG210709-5	2	1.99	3.63	ng/L	82	71	125	7	24	
WG527214CCV4	CCV	09/15/21 12:21	HG210709-4	10		9.84	ng/L	98	76.5	123.4			
WG527214CCB4	CCB	09/15/21 12:26				U	ng/L		-0.501	0.501			

Ouray Silver Mines

ACZ Project ID: **L68339**

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.

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527425													
WG527425ICV	ICV	09/17/21 0:44	WI210904-1	2.4161		2.364	mg/L	98	90	110			
WG527425ICB	ICB	09/17/21 0:46				U	mg/L		-0.02	0.02			
WG527428													
WG527428LFB	LFB	09/17/21 2:33	WI210331-13	2		1.982	mg/L	99	90	110			
L68206-01DUP	DUP	09/17/21 2:38			U	U	mg/L				0	20	RA
L68205-01AS	AS	09/17/21 3:14	WI210331-13	4	2.26	6.242	mg/L	100	90	110			

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527079													
WG527079ICV	ICV	09/13/21 18:17	II210826-1	20		19.56	mg/L	98	95	105			
WG527079ICB	ICB	09/13/21 18:23				U	mg/L		-0.6	0.6			
WG527079LFB	LFB	09/13/21 18:36	II210910-2	99.96008		94.86	mg/L	95	85	115			
L68342-02AS	AS	09/13/21 18:57	II210910-2	99.96008	.55	95.52	mg/L	95	85	115			
L68342-02ASD	ASD	09/13/21 19:00	II210910-2	99.96008	.55	95.11	mg/L	95	85	115	0	20	

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527082													
WG527082PBW	PBW	09/13/21 15:48				U	mg/L		-20	20			
WG527082LCSW	LCSW	09/13/21 15:51	PCN64130	1000		980	mg/L	98	80	120			
L68339-01DUP	DUP	09/13/21 16:16			136	142	mg/L				4	10	RA
WG527087													
WG527087PBW	PBW	09/13/21 16:45				U	mg/L		-20	20			
WG527087LCSW	LCSW	09/13/21 16:46	PCN64130	1000		986	mg/L	99	80	120			
L68388-01DUP	DUP	09/13/21 17:20			674	680	mg/L				1	10	

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527147													
WG527147PBW	PBW	09/14/21 11:09				U	mg/L		-5	5			
WG527147LCSW	LCSW	09/14/21 11:11	PCN64130	100		92	mg/L	92	80	120			
L68339-01DUP	DUP	09/14/21 11:40			U	U	mg/L				0	10	RA
L68422-01DUP	DUP	09/14/21 12:09			5	5	mg/L				0	10	RA

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527281													
WG527281ICV	ICV	09/15/21 15:43	MS210727-2	.02		.0215	mg/L	108	90	110			
WG527281ICB	ICB	09/15/21 15:45				U	mg/L		-0.00022	0.00022			
WG527281LFB	LFB	09/15/21 15:47	MS210827-2	.01002		.01125	mg/L	112	85	115			
L68220-04AS	AS	09/15/21 15:55	MS210827-2	.01002	U	.01068	mg/L	107	70	130			
L68220-04ASD	ASD	09/15/21 15:57	MS210827-2	.01002	U	.01041	mg/L	104	70	130	3	20	
L68342-02AS	AS	09/15/21 16:24	MS210827-2	.01002	U	.01105	mg/L	110	70	130			
L68342-02ASD	ASD	09/15/21 16:26	MS210827-2	.01002	U	.01111	mg/L	111	70	130	1	20	

Ouray Silver Mines

ACZ Project ID: **L68339**

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.

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527079													
WG527079ICV	ICV	09/13/21 18:17	II210826-1	100		97.85	mg/L	98	95	105			
WG527079ICB	ICB	09/13/21 18:23				U	mg/L		-0.6	0.6			
WG527079LFB	LFB	09/13/21 18:36	II210910-2	100.007		95.22	mg/L	95	85	115			
L68342-02AS	AS	09/13/21 18:57	II210910-2	100.007	2.15	97.96	mg/L	96	85	115			
L68342-02ASD	ASD	09/13/21 19:00	II210910-2	100.007	2.15	97.23	mg/L	95	85	115	1	20	

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527646													
WG527646ICB	ICB	09/21/21 10:12				U	mg/L		-3	3			
WG527646ICV	ICV	09/21/21 10:12	WI210909-1	20.46		20	mg/L	98	90	110			
WG527646LFB	LFB	09/21/21 11:28	WI210105-3	10		10.3	mg/L	103	90	110			
L68339-02AS	AS	09/21/21 11:57	SO4TURB5X	10	76.5	89.2	mg/L	127	90	110			M3
L68408-01DUP	DUP	09/21/21 12:14			8400	8397.1	mg/L				0	20	
WG527680													
WG527680ICB	ICB	09/21/21 10:12				U	mg/L		-3	3			
WG527680ICV	ICV	09/21/21 10:12	WI210909-1	20.46		20	mg/L	98	90	110			
WG527680LFB	LFB	09/21/21 13:26	WI210105-3	10		10.3	mg/L	103	90	110			
L68344-03AS	AS	09/21/21 13:30	WI210105-3	10	2.7	12.7	mg/L	100	90	110			
L68344-04DUP	DUP	09/21/21 13:30			U	U	mg/L				0	20	RA

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527079													
WG527079ICV	ICV	09/13/21 18:17	II210826-1	2		1.976	mg/L	99	95	105			
WG527079ICB	ICB	09/13/21 18:23				U	mg/L		-0.06	0.06			
WG527079LFB	LFB	09/13/21 18:36	II210910-2	.50045		.506	mg/L	101	85	115			
L68342-02AS	AS	09/13/21 18:57	II210910-2	.50045	.04	.54	mg/L	100	85	115			
L68342-02ASD	ASD	09/13/21 19:00	II210910-2	.50045	.04	.536	mg/L	99	85	115	1	20	

Ouray Silver Mines

ACZ Project ID: **L68339**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68339-01	WG527612	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527399	Carbon, dissolved organic (DOC)	SM5310B	Q6	Sample was received above recommended temperature.
			SM5310B	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).
	WG527612	Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527589	Chloride	SM4500Cl-E	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500Cl-E	Q6	Sample was received above recommended temperature.
	WG527572	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
	WG527612	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527428	Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	Q6	Sample was received above recommended temperature.
			M353.2 - H ₂ SO ₄ preserved	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).
	WG527082	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
			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).
	WG527147	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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).
	WG527646	Sulfate	SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
			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.
	WG527612	Total Alkalinity	D516-02/-07/-11 - TURBIDIMETRIC	Q6	Sample was received above recommended temperature.
			SM2320B - Titration	Q6	Sample was received above recommended temperature.

Ouray Silver Mines

ACZ Project ID: **L68339**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68339-02	WG527612	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527399	Carbon, dissolved organic (DOC)	SM5310B	Q6	Sample was received above recommended temperature.
			SM5310B	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).
	WG527612	Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527589	Chloride	SM4500CI-E	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500CI-E	Q6	Sample was received above recommended temperature.
	WG527572	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
	WG527612	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527428	Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	Q6	Sample was received above recommended temperature.
			M353.2 - H ₂ SO ₄ preserved	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).
	WG527087	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
			SM2540C	RO	The duplicate originally assigned to this sample was not used for precision assessment because residue density did not meet method limits. Another duplicate in the batch was used to assess precision. Method required duplicate frequency was not met.
	WG527147	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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).
	WG527646	Sulfate	SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
			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.
			D516-02/-07/-11 - TURBIDIMETRIC	Q6	Sample was received above recommended temperature.
WG527612	Total Alkalinity		SM2320B - Titration	Q6	Sample was received above recommended temperature.

Ouray Silver Mines

ACZ Project ID: **L68339**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68339-03	WG527612	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527399	Carbon, dissolved organic (DOC)	SM5310B	Q6	Sample was received above recommended temperature.
			SM5310B	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).
	WG527612	Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527589	Chloride	SM4500Cl-E	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500Cl-E	Q6	Sample was received above recommended temperature.
	WG527572	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
	WG527612	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527428	Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	Q6	Sample was received above recommended temperature.
			M353.2 - H ₂ SO ₄ preserved	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).
	WG527087	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
			SM2540C	RO	The duplicate originally assigned to this sample was not used for precision assessment because residue density did not meet method limits. Another duplicate in the batch was used to assess precision. Method required duplicate frequency was not met.
	WG527147	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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).
	WG527680	Sulfate	SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
			D516-02/-07/-11 - TURBIDIMETRIC	Q6	Sample was received above recommended temperature.
	WG527612	Total Alkalinity	D516-02/-07/-11 - TURBIDIMETRIC	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).
			SM2320B - Titration	Q6	Sample was received above recommended temperature.

Ouray Silver Mines

ACZ Project ID: **L68339**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68339-04	WG527612	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527399	Carbon, dissolved organic (DOC)	SM5310B	Q6	Sample was received above recommended temperature.
			SM5310B	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).
	WG527612	Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527589	Chloride	SM4500Cl-E	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500Cl-E	Q6	Sample was received above recommended temperature.
	WG527572	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
	WG527612	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527428	Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	Q6	Sample was received above recommended temperature.
			M353.2 - H ₂ SO ₄ preserved	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).
	WG527087	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
			SM2540C	RO	The duplicate originally assigned to this sample was not used for precision assessment because residue density did not meet method limits. Another duplicate in the batch was used to assess precision. Method required duplicate frequency was not met.
	WG527147	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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).
	WG527680	Sulfate	SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
			D516-02/-07/-11 - TURBIDIMETRIC	Q6	Sample was received above recommended temperature.
	WG527612	Total Alkalinity	D516-02/-07/-11 - TURBIDIMETRIC	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).
			SM2320B - Titration	Q6	Sample was received above recommended temperature.

Ouray Silver Mines

ACZ Project ID: **L68339**

Metals Analysis

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Iron, dissolved	M200.8 ICP-MS
Iron, total recoverable	M200.8 ICP-MS

Ouray Silver Mines

ACZ Project ID: L68339

Date Received: 09/09/2021 11:34

Received By:

Date Printed: 9/10/2021

Receipt Verification

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

Samples/Containers

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

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?
-----	-----	-----	-----	-----
6949	11.6	<=6.0	15	Yes

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.

Ouray Silver Mines

ACZ Project ID: L68339

Date Received: 09/09/2021 11:34

Received By:

Date Printed: 9/10/2021

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).

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

Report to:

Name:	Briana Greer
Company:	Solid Solution Geosciences LLC
E-mail:	briana@solidsolutiongeosciences.com

Address:	112 Village Square W Suite 205.
	Ridgway CO, 81432
Telephone:	307-760-8838

Copy of Report to:

Name:	Environmental
Company:	Ouray Silver Mines Inc.

E-mail:	environmental@ouraysilvermines.com
Telephone:	970-325-9830

Invoice to:

Name:	Ashlee Briggs
Company:	Ouray Silver Mines Inc.
E-mail:	abriggs@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	☒
NO	☐

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

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

Sampler's Name: Joshua Moore Sampler's Site Information State CO Zip code 81427 Time Zone Mtn

*Sampler's Signature: Laura Moore

*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

ANALYSES REQUESTED (attach list or use quote number)

[illegible]

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

REMARKS

SW1 bottles over-labeled with new labels for correct location. Jm

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

RELINQUISHED BY:	DATE: TIME	RECEIVED BY:	DATE: TIME
<i>Joanna Wallace</i>	9/8/21 13:15 15.15	<i>RM RM</i>	9/9/21 1134
		<i>gmr</i>	

October 01, 2021

Report to:

Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Environmental, Accounts Payable

Bill to:

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

Project ID:

ACZ Project ID: L68342

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on September 09, 2021. This project has been assigned to ACZ's project number, L68342. 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 L68342. 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 31, 2021. 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.



Sue Webber has reviewed and
approved this report.



Ouray Silver Mines

Project ID:

Sample ID: SW-0

ACZ Sample ID: **L68342-01**

Date Sampled: 09/08/21 09:55

Date Received: 09/09/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								09/14/21 14:51	bsu

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	<0.005	U		mg/L	0.005	0.015	09/15/21 16:20	mfm
Aluminum, total recoverable	M200.8 ICP-MS	1	<0.005	U		mg/L	0.005	0.015	09/15/21 13:50	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	09/15/21 16:20	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	09/15/21 13:50	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	09/15/21 16:20	mfm
Calcium, dissolved	M200.7 ICP	1	<0.1	U		mg/L	0.1	0.5	09/13/21 18:51	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/15/21 16:20	mfm
Iron, dissolved	M200.8 ICP-MS	1	0.0071	B	*	mg/L	0.007	0.02	09/15/21 16:20	mfm
Iron, total recoverable	M200.8 ICP-MS	1	<0.007	U	*	mg/L	0.007	0.02	09/15/21 13:50	mfm
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/15/21 16:20	mfm
Magnesium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	09/15/21 18:55	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	09/13/21 18:51	kja
Mercury, total	M1631E, Atomic Fluorescence	1	<0.3	U		ng/L	0.3	1	09/15/21 11:29	mfm
Potassium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	09/13/21 18:51	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/15/21 16:20	mfm
Sodium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	09/13/21 18:51	kja
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	09/13/21 18:51	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-0

ACZ Sample ID: **L68342-01**

Date Sampled: 09/08/21 09:55

Date Received: 09/09/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	09/20/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	09/20/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	09/20/21 0:00	eep
Total Alkalinity		1	<2	U	*	mg/L	2	20	09/20/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	1.1	B	*	mg/L	1	5	09/17/21 0:00	md
Cation-Anion Balance	Calculation									
Cation-Anion Balance			n/a			%			10/01/21 0:00	calc
Sum of Anions			<	U		meq/L			10/01/21 0:00	calc
Sum of Cations			<	U		meq/L			10/01/21 0:00	calc
Chloride	SM4500Cl-E	1	0.63	B	*	mg/L	0.5	2	09/20/21 14:50	md
Fluoride	SM4500F-C	1	<0.15	U	*	mg/L	0.15	0.35	09/20/21 15:31	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		<0.2	U		mg/L	0.2	5	10/01/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	<0.02	U	*	mg/L	0.02	0.1	09/17/21 2:54	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	<20	U	*	mg/L	20	40	09/13/21 16:54	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	09/14/21 11:50	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	<1	U	*	mg/L	1	5	09/21/21 13:28	wtc
TDS (calculated)	Calculation		0.637			mg/L			10/01/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		n/a						10/01/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW-16

ACZ Sample ID: **L68342-02**

Date Sampled: 09/08/21 14:17

Date Received: 09/09/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								09/22/21 9:15	mfm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0063	B		mg/L	0.005	0.015	09/15/21 16:22	mfm
Aluminum, total recoverable	M200.8 ICP-MS	1	0.0633			mg/L	0.005	0.015	09/15/21 13:56	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00098	B		mg/L	0.0002	0.001	09/15/21 16:22	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00125			mg/L	0.0002	0.001	09/15/21 13:56	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000121	B		mg/L	0.00005	0.00025	09/15/21 16:22	mfm
Calcium, dissolved	M200.7 ICP	1	28.1			mg/L	0.1	0.5	09/13/21 18:54	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/15/21 16:22	mfm
Iron, dissolved	M200.8 ICP-MS	1	<0.007	U	*	mg/L	0.007	0.02	09/15/21 16:22	mfm
Iron, total recoverable	M200.8 ICP-MS	1	0.0683		*	mg/L	0.007	0.02	09/27/21 13:46	mfm
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/15/21 16:22	mfm
Magnesium, dissolved	M200.7 ICP	1	2.46			mg/L	0.2	1	09/15/21 18:58	kja
Manganese, dissolved	M200.7 ICP	1	0.016	B		mg/L	0.01	0.05	09/13/21 18:54	kja
Mercury, total	M1631E, Atomic Fluorescence	1	1.99			ng/L	0.3	1	09/15/21 11:34	mfm
Potassium, dissolved	M200.7 ICP	1	0.55	B		mg/L	0.2	1	09/13/21 18:54	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/15/21 16:22	mfm
Sodium, dissolved	M200.7 ICP	1	2.15			mg/L	0.2	1	09/13/21 18:54	kja
Zinc, dissolved	M200.7 ICP	1	0.040	B		mg/L	0.02	0.05	09/13/21 18:54	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-16

ACZ Sample ID: **L68342-02**

Date Sampled: 09/08/21 14:17

Date Received: 09/09/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	34.3		*	mg/L	2	20	09/20/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	09/20/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	09/20/21 0:00	eep
Total Alkalinity		1	34.3		*	mg/L	2	20	09/20/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	1.1	B	*	mg/L	1	5	09/17/21 0:12	md
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-2.9			%			10/01/21 0:00	calc
Sum of Anions			1.8			meq/L			10/01/21 0:00	calc
Sum of Cations			1.7			meq/L			10/01/21 0:00	calc
Chloride	SM4500Cl-E	1	0.78	B	*	mg/L	0.5	2	09/20/21 14:51	md
Fluoride	SM4500F-C	1	0.18	B	*	mg/L	0.15	0.35	09/20/21 15:39	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		80			mg/L	0.2	5	10/01/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.059	B	*	mg/L	0.02	0.1	09/17/21 2:57	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	100		*	mg/L	20	40	09/13/21 16:56	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	09/14/21 11:53	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	49.8		*	mg/L	5	25	09/21/21 13:52	wtc
TDS (calculated)	Calculation		105			mg/L			10/01/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.95						10/01/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW-21

ACZ Sample ID: **L68342-03**

Date Sampled: 09/08/21 10:38

Date Received: 09/09/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								09/22/21 9:15	mfm

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	<0.005	U		mg/L	0.005	0.015	09/15/21 16:28	mfm
Aluminum, total recoverable	M200.8 ICP-MS	1	0.0650			mg/L	0.005	0.015	09/15/21 13:58	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00094	B		mg/L	0.0002	0.001	09/15/21 16:28	mfm
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00117			mg/L	0.0002	0.001	09/15/21 13:58	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000073	B		mg/L	0.00005	0.00025	09/15/21 16:28	mfm
Calcium, dissolved	M200.7 ICP	1	33.0			mg/L	0.1	0.5	09/13/21 19:03	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/15/21 16:28	mfm
Iron, dissolved	M200.8 ICP-MS	1	<0.007	U	*	mg/L	0.007	0.02	09/15/21 16:28	mfm
Iron, total recoverable	M200.8 ICP-MS	1	0.105		*	mg/L	0.007	0.02	09/27/21 13:48	mmf
Lead, dissolved	M200.8 ICP-MS	1	0.00011	B		mg/L	0.0001	0.0005	09/15/21 16:28	mfm
Magnesium, dissolved	M200.7 ICP	1	2.39			mg/L	0.2	1	09/15/21 19:07	kja
Manganese, dissolved	M200.7 ICP	1	0.023	B		mg/L	0.01	0.05	09/13/21 19:03	kja
Mercury, total	M1631E, Atomic Fluorescence	1	0.40	B		ng/L	0.3	1	09/15/21 11:58	mfm
Potassium, dissolved	M200.7 ICP	1	0.62	B		mg/L	0.2	1	09/13/21 19:03	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/15/21 16:28	mfm
Sodium, dissolved	M200.7 ICP	1	3.12			mg/L	0.2	1	09/13/21 19:03	kja
Zinc, dissolved	M200.7 ICP	1	0.063			mg/L	0.02	0.05	09/13/21 19:03	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-21

ACZ Sample ID: **L68342-03**

Date Sampled: 09/08/21 10:38

Date Received: 09/09/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	40.7		*	mg/L	2	20	09/20/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	09/20/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	09/20/21 0:00	eep
Total Alkalinity		1	40.7		*	mg/L	2	20	09/20/21 0:00	eep
Carbon, dissolved organic (DOC)	SM5310B	1	1.1	B	*	mg/L	1	5	09/17/21 0:47	md
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			10/01/21 0:00	calc
Sum of Anions			2.0			meq/L			10/01/21 0:00	calc
Sum of Cations			2.0			meq/L			10/01/21 0:00	calc
Chloride	SM4500Cl-E	1	1.28	B	*	mg/L	0.5	2	09/20/21 14:52	md
Fluoride	SM4500F-C	1	0.19	B	*	mg/L	0.15	0.35	09/20/21 15:46	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		92			mg/L	0.2	5	10/01/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.414		*	mg/L	0.02	0.1	09/17/21 2:59	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	136		*	mg/L	20	40	09/13/21 16:58	emk
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	09/14/21 11:56	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	55.6		*	mg/L	5	25	09/21/21 13:52	wtc
TDS (calculated)	Calculation		121			mg/L			10/01/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.12						10/01/21 0:00	calc


Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L68342**

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
WG527612													
WG527612PBW1	PBW	09/20/21 20:36				7.4	mg/L		-20	20			
WG527612LCSW3	LCSW	09/20/21 20:54	WC210917-2	820.0001		775	mg/L	95	90	110			
L68394-04DUP	DUP	09/21/21 0:25			778	762.3	mg/L				2	20	
WG527612LCSW6	LCSW	09/21/21 0:45	WC210917-2	820.0001		813.6	mg/L	99	90	110			
WG527612PBW2	PBW	09/21/21 0:52				U	mg/L		-20	20			
WG527612LCSW9	LCSW	09/21/21 4:27	WC210917-2	820.0001		801.6	mg/L	98	90	110			
WG527612PBW3	PBW	09/21/21 4:35				U	mg/L		-20	20			
WG527612LCSW12	LCSW	09/21/21 11:46	WC210917-2	820.0001		819.6	mg/L	100	90	110			
WG527612PBW4	PBW	09/21/21 11:53				U	mg/L		-20	20			
WG527612LCSW15	LCSW	09/21/21 15:41	WC210917-2	820.0001		828.1	mg/L	101	90	110			

Aluminum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527281													
WG527281ICV	ICV	09/15/21 15:43	MS210727-2	.1		.0987	mg/L	99	90	110			
WG527281ICB	ICB	09/15/21 15:45				U	mg/L		-0.011	0.011			
WG527281LFB	LFB	09/15/21 15:47	MS210827-2	.050065		.0461	mg/L	92	85	115			
L68342-02AS	AS	09/15/21 16:24	MS210827-2	.050065	.0063	.0505	mg/L	88	70	130			
L68342-02ASD	ASD	09/15/21 16:26	MS210827-2	.050065	.0063	.0525	mg/L	92	70	130	4	20	

Aluminum, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527250													
WG527250ICV	ICV	09/15/21 13:04	MS210727-2	.1		.1028	mg/L	103	90	110			
WG527250ICB	ICB	09/15/21 13:06				U	mg/L		-0.015	0.015			
WG527093LRB	LRB	09/15/21 13:09				U	mg/L		-0.011	0.011			
WG527093LFB	LFB	09/15/21 13:11	MS210827-2	.050065		.0493	mg/L	98	85	115			
L68342-03LFM	LFM	09/15/21 13:59	MS210827-2	.050065	.065	.1058	mg/L	81	70	130			
L68342-03LFMD	LFMD	09/15/21 14:01	MS210827-2	.050065	.065	.1079	mg/L	86	70	130	2	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527281													
WG527281ICV	ICV	09/15/21 15:43	MS210727-2	.05		.04887	mg/L	98	90	110			
WG527281ICB	ICB	09/15/21 15:45				U	mg/L		-0.00044	0.00044			
WG527281LFB	LFB	09/15/21 15:47	MS210827-2	.05005		.04695	mg/L	94	85	115			
L68342-02AS	AS	09/15/21 16:24	MS210827-2	.05005	.00098	.05219	mg/L	102	70	130			
L68342-02ASD	ASD	09/15/21 16:26	MS210827-2	.05005	.00098	.05322	mg/L	104	70	130	2	20	

Arsenic, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527250													
WG527250ICV	ICV	09/15/21 13:04	MS210727-2	.05		.05106	mg/L	102	90	110			
WG527250ICB	ICB	09/15/21 13:06				U	mg/L		-0.0006	0.0006			
WG527093LRB	LRB	09/15/21 13:09				U	mg/L		-0.00044	0.00044			
WG527093LFB	LFB	09/15/21 13:11	MS210827-2	.05005		.04787	mg/L	96	85	115			
L68342-03LFM	LFM	09/15/21 13:59	MS210827-2	.05005	.00117	.05262	mg/L	103	70	130			
L68342-03LFMD	LFMD	09/15/21 14:01	MS210827-2	.05005	.00117	.0509	mg/L	99	70	130	3	20	

Ouray Silver Mines

ACZ Project ID: **L68342**

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.

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527281													
WG527281ICV	ICV	09/15/21 15:43	MS210727-2	.05		.052013	mg/L	104	90	110			
WG527281ICB	ICB	09/15/21 15:45				U	mg/L		-0.00011	0.00011			
WG527281LFB	LFB	09/15/21 15:47	MS210827-2	.05005		.048455	mg/L	97	85	115			
L68342-02AS	AS	09/15/21 16:24	MS210827-2	.05005	.000121	.048143	mg/L	96	70	130			
L68342-02ASD	ASD	09/15/21 16:26	MS210827-2	.05005	.000121	.051776	mg/L	103	70	130	7	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527079													
WG527079ICV	ICV	09/13/21 18:17	II210826-1	100		96.01	mg/L	96	95	105			
WG527079ICB	ICB	09/13/21 18:23				U	mg/L		-0.3	0.3			
WG527079LFB	LFB	09/13/21 18:36	II210910-2	67.98972		64.96	mg/L	96	85	115			
L68342-02AS	AS	09/13/21 18:57	II210910-2	67.98972	28.1	92.16	mg/L	94	85	115			
L68342-02ASD	ASD	09/13/21 19:00	II210910-2	67.98972	28.1	91.16	mg/L	93	85	115	1	20	

Carbon, dissolved organic (DOC)

SM5310B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG519681													
WG519681ICV	ICV	05/21/21 18:53	WI210521-3	100		101.3	mg/L	101	90	110			
WG519681ICB	ICB	05/21/21 19:05				U	mg/L		-3	3			
WG527399													
WG527399LFB	LFB	09/16/21 21:50	WI210817-3	50		52.1	mg/L	104	90	110			
L68328-01DUP	DUP	09/16/21 22:17			6.7	6.8	mg/L				1	20	RA
L68328-02AS	AS	09/16/21 22:46	WI210817-3	50	6.6	58.4	mg/L	104	90	110			

Chloride

SM4500Cl-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527589													
WG527589ICV	ICV	09/20/21 14:42	WI210503-1	54.89		52.1	mg/L	95	90	110			
WG527589ICB	ICB	09/20/21 14:43				.95	mg/L		-1.5	1.5			
WG527589LFB1	LFB	09/20/21 14:43	WI210908-11	29.97		27.71	mg/L	92	90	110			
L68328-01DUP	DUP	09/20/21 14:45			70.8	67.46	mg/L				5	20	
L68342-02AS	AS	09/20/21 14:51	WI210908-11	29.97	.78	28.74	mg/L	93	90	110			
L68342-03DUP	DUP	09/20/21 14:52			1.28	1.27	mg/L				1	20	RA
WG527589LFB2	LFB	09/20/21 14:58	WI210908-11	29.97		28.56	mg/L	95	90	110			
L68213-03AS	AS	09/20/21 15:35	WI210908-11	29.97	19.5	54.75	mg/L	118	90	110			M1

Copper, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527281													
WG527281ICV	ICV	09/15/21 15:43	MS210727-2	.05		.05235	mg/L	105	90	110			
WG527281ICB	ICB	09/15/21 15:45				U	mg/L		-0.00176	0.00176			
WG527281LFB	LFB	09/15/21 15:47	MS210827-2	.05		.04914	mg/L	98	85	115			
L68342-02AS	AS	09/15/21 16:24	MS210827-2	.05	U	.04954	mg/L	99	70	130			
L68342-02ASD	ASD	09/15/21 16:26	MS210827-2	.05	U	.05044	mg/L	101	70	130	2	20	

Ouray Silver Mines

ACZ Project ID: **L68342**

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.

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527572													
WG527572ICV	ICV	09/20/21 13:14	WC210920-1	2.002		2.11	mg/L	105	90	110			
WG527572ICB	ICB	09/20/21 13:20				U	mg/L		-0.3	0.3			
WG527572LFB1	LFB	09/20/21 13:27	WC210803-9	5.02		5.31	mg/L	106	90	110			
L68344-03AS	AS	09/20/21 16:37	WC210803-9	5.02	.89	6.18	mg/L	105	90	110			
L68344-03ASD	ASD	09/20/21 16:45	WC210803-9	5.02	.89	6.15	mg/L	105	90	110	0	20	
WG527572LFB2	LFB	09/20/21 17:03	WC210803-9	5.02		5.38	mg/L	107	90	110			

Iron, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527281													
WG527281ICV	ICV	09/15/21 15:43	MS210727-2	.10016		.0979	mg/L	98	90	110			
WG527281ICB	ICB	09/15/21 15:45				U	mg/L		-0.0154	0.0154			
WG527281LFB	LFB	09/15/21 15:47	MS210827-2	.0501		.0501	mg/L	100	85	115			
L68342-02AS	AS	09/15/21 16:24	MS210827-2	.0501	U	.0507	mg/L	101	70	130			
L68342-02ASD	ASD	09/15/21 16:26	MS210827-2	.0501	U	.0519	mg/L	104	70	130	2	20	

Iron, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527250													
WG527250ICV	ICV	09/15/21 13:04	MS210727-2	.10016		.1017	mg/L	102	90	110			
WG527250ICB	ICB	09/15/21 13:06				U	mg/L		-0.021	0.021			
WG527093LRB	LRB	09/15/21 13:09				.0936	mg/L		-0.0154	0.0154			B7 BF
WG527093LFB	LFB	09/15/21 13:11	MS210827-2	.0501		.0503	mg/L	100	85	115			
L68342-03LFM	LFM	09/15/21 13:59	MS210827-2	.0501	.0584	.107	mg/L	97	70	130			
L68342-03LFMD	LFMD	09/15/21 14:01	MS210827-2	.0501	.0584	.1096	mg/L	102	70	130	2	20	
WG528102													
WG528102ICV	ICV	09/27/21 13:28	MS210727-2	.10016		.0949	mg/L	95	90	110			
WG528102ICB	ICB	09/27/21 13:30				U	mg/L		-0.021	0.021			
WG527725LRB	LRB	09/27/21 13:31				U	mg/L		-0.0154	0.0154			
WG527725LFB	LFB	09/27/21 13:33	MS210827-2	.0501		.0463	mg/L	92	85	115			
L68514-01LFM	LFM	09/27/21 13:57	MS210827-2	.0501	.0147	.0599	mg/L	90	70	130			
L68514-01LFMD	LFMD	09/27/21 13:59	MS210827-2	.0501	.0147	.0602	mg/L	91	70	130	0	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527281													
WG527281ICV	ICV	09/15/21 15:43	MS210727-2	.05		.0487	mg/L	97	90	110			
WG527281ICB	ICB	09/15/21 15:45				U	mg/L		-0.00022	0.00022			
WG527281LFB	LFB	09/15/21 15:47	MS210827-2	.05005		.04634	mg/L	93	85	115			
L68342-02AS	AS	09/15/21 16:24	MS210827-2	.05005	U	.04663	mg/L	93	70	130			
L68342-02ASD	ASD	09/15/21 16:26	MS210827-2	.05005	U	.04823	mg/L	96	70	130	3	20	

Ouray Silver Mines

ACZ Project ID: **L68342**

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.

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527113													
WG527113ICV	ICV	09/15/21 18:21	II210826-1	100		97.62	mg/L	98	95	105			
WG527113ICB	ICB	09/15/21 18:27				U	mg/L		-0.6	0.6			
WG527113LFB	LFB	09/15/21 18:40	II210910-2	49.99828		47.53	mg/L	95	85	115			
L68342-02AS	AS	09/15/21 19:01	II210910-2	49.99828	2.46	49.78	mg/L	95	85	115			
L68342-02ASD	ASD	09/15/21 19:04	II210910-2	49.99828	2.46	50.85	mg/L	97	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
WG527079													
WG527079ICV	ICV	09/13/21 18:17	II210826-1	2		1.921	mg/L	96	95	105			
WG527079ICB	ICB	09/13/21 18:23				U	mg/L		-0.03	0.03			
WG527079LFB	LFB	09/13/21 18:36	II210910-2	.5005		.476	mg/L	95	85	115			
L68342-02AS	AS	09/13/21 18:57	II210910-2	.5005	.016	.5	mg/L	97	85	115			
L68342-02ASD	ASD	09/13/21 19:00	II210910-2	.5005	.016	.493	mg/L	95	85	115	1	20	

Mercury, total

M1631E, Atomic Fluorescence

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523056													
WG523056ICV1	ICV	07/13/21 11:31	HG210709-4	10		10.2	ng/L	102	79	121			
WG523056ICB1	ICB	07/13/21 11:36				U	ng/L		-0.501	0.501			
WG527214													
WG527214CCV1	CCV	09/15/21 9:10	HG210709-4	10		10.4	ng/L	104	76.5	123.4			
WG527214CCB1	CCB	09/15/21 9:15				U	ng/L		-0.501	0.501			
WG527214PQV	PQV	09/15/21 9:20	HG210709-6	1		1.05	ng/L	105	70	130			
WG527214LFB	LFB	09/15/21 9:25	HG210709-5	2		2	ng/L	100	71	125			
WG527214CCV2	CCV	09/15/21 10:46	HG210709-4	10		9.98	ng/L	100	76.5	123.4			
WG527214CCB2	CCB	09/15/21 10:51				U	ng/L		-0.501	0.501			
L68342-02MS	MS	09/15/21 11:38	HG210709-5	2	1.99	3.89	ng/L	95	71	125			
WG527214CCV3	CCV	09/15/21 11:43	HG210709-4	10		9.83	ng/L	98	76.5	123.4			
WG527214CCB3	CCB	09/15/21 11:48				U	ng/L		-0.501	0.501			
L68342-02MSD	MSD	09/15/21 11:53	HG210709-5	2	1.99	3.63	ng/L	82	71	125	7	24	
WG527214CCV4	CCV	09/15/21 12:21	HG210709-4	10		9.84	ng/L	98	76.5	123.4			
WG527214CCB4	CCB	09/15/21 12:26				U	ng/L		-0.501	0.501			

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527425													
WG527425ICV	ICV	09/17/21 0:44	WI210904-1	2.4161		2.364	mg/L	98	90	110			
WG527425ICB	ICB	09/17/21 0:46				U	mg/L		-0.02	0.02			
WG527428													
WG527428LFB	LFB	09/17/21 2:33	WI210331-13	2		1.982	mg/L	99	90	110			
L68342-01AS	AS	09/17/21 2:55	WI210331-13	2	U	2.077	mg/L	104	90	110			
L68342-02DUP	DUP	09/17/21 2:58			.059	.059	mg/L				0	20	RA

Ouray Silver Mines

ACZ Project ID: **L68342**

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.

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527079													
WG527079ICV	ICV	09/13/21 18:17	II210826-1	20		19.56	mg/L	98	95	105			
WG527079ICB	ICB	09/13/21 18:23				U	mg/L		-0.6	0.6			
WG527079LFB	LFB	09/13/21 18:36	II210910-2	99.96008		94.86	mg/L	95	85	115			
L68342-02AS	AS	09/13/21 18:57	II210910-2	99.96008	.55	95.52	mg/L	95	85	115			
L68342-02ASD	ASD	09/13/21 19:00	II210910-2	99.96008	.55	95.11	mg/L	95	85	115	0	20	

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527087													
WG527087PBW	PBW	09/13/21 16:45				U	mg/L		-20	20			
WG527087LCSW	LCSW	09/13/21 16:46	PCN64130	1000		986	mg/L	99	80	120			
L68388-01DUP	DUP	09/13/21 17:20			674	680	mg/L				1	10	

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527147													
WG527147PBW	PBW	09/14/21 11:09				U	mg/L		-5	5			
WG527147LCSW	LCSW	09/14/21 11:11	PCN64130	100		92	mg/L	92	80	120			
L68422-01DUP	DUP	09/14/21 12:09			5	5	mg/L				0	10	RA

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527281													
WG527281ICV	ICV	09/15/21 15:43	MS210727-2	.02		.0215	mg/L	108	90	110			
WG527281ICB	ICB	09/15/21 15:45				U	mg/L		-0.00022	0.00022			
WG527281LFB	LFB	09/15/21 15:47	MS210827-2	.01002		.01125	mg/L	112	85	115			
L68342-02AS	AS	09/15/21 16:24	MS210827-2	.01002	U	.01105	mg/L	110	70	130			
L68342-02ASD	ASD	09/15/21 16:26	MS210827-2	.01002	U	.01111	mg/L	111	70	130	1	20	

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527079													
WG527079ICV	ICV	09/13/21 18:17	II210826-1	100		97.85	mg/L	98	95	105			
WG527079ICB	ICB	09/13/21 18:23				U	mg/L		-0.6	0.6			
WG527079LFB	LFB	09/13/21 18:36	II210910-2	100.007		95.22	mg/L	95	85	115			
L68342-02AS	AS	09/13/21 18:57	II210910-2	100.007	2.15	97.96	mg/L	96	85	115			
L68342-02ASD	ASD	09/13/21 19:00	II210910-2	100.007	2.15	97.23	mg/L	95	85	115	1	20	

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527680													
WG527680ICB	ICB	09/21/21 10:12				U	mg/L		-3	3			
WG527680ICV	ICV	09/21/21 10:12	WI210909-1	20.46		20	mg/L	98	90	110			
WG527680LFB	LFB	09/21/21 13:26	WI210105-3	10		10.3	mg/L	103	90	110			
L68344-03AS	AS	09/21/21 13:30	WI210105-3	10	2.7	12.7	mg/L	100	90	110			
L68344-04DUP	DUP	09/21/21 13:30			U	U	mg/L				0	20	RA

Ouray Silver Mines

ACZ Project ID: **L68342**

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.

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527079													
WG527079ICV	ICV	09/13/21 18:17	II210826-1	2		1.976	mg/L	99	95	105			
WG527079ICB	ICB	09/13/21 18:23				U	mg/L		-0.06	0.06			
WG527079LFB	LFB	09/13/21 18:36	II210910-2	.50045		.506	mg/L	101	85	115			
L68342-02AS	AS	09/13/21 18:57	II210910-2	.50045	.04	.54	mg/L	100	85	115			
L68342-02ASD	ASD	09/13/21 19:00	II210910-2	.50045	.04	.536	mg/L	99	85	115	1	20	

Ouray Silver Mines

ACZ Project ID: **L68342**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68342-01	WG527612	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527399	Carbon, dissolved organic (DOC)	SM5310B	Q6	Sample was received above recommended temperature.
			SM5310B	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).
				Q6	Sample was received above recommended temperature.
	WG527612	Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527589	Chloride	SM4500Cl-E	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500Cl-E	Q6	Sample was received above recommended temperature.
	WG527572	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
	WG527612	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527250	Iron, total recoverable	M200.8 ICP-MS	BF	Target analyte in prep / method blank at or above the acceptance criteria. Target analyte was not detected in the sample [< MDL].
				Q6	Sample was received above recommended temperature.
				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).
	WG527428	Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	Q6	Sample was received above recommended temperature.
			M353.2 - H ₂ SO ₄ preserved	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).
				Q6	Sample was received above recommended temperature.
	WG527087	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
			SM2540C	RO	The duplicate originally assigned to this sample was not used for precision assessment because residue density did not meet method limits. Another duplicate in the batch was used to assess precision. Method required duplicate frequency was not met.
			SM2540C	Z3	Sample volume yielded a residue less than 2.5 mg
	WG527147	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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
	WG527680	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	Q6	Sample was received above recommended temperature.
			D516-02/-07/-11 - TURBIDIMETRIC	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).
	WG527612	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

Ouray Silver Mines

ACZ Project ID: **L68342**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68342-02	WG527612	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527399	Carbon, dissolved organic (DOC)	SM5310B	Q6	Sample was received above recommended temperature.
			SM5310B	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).
	WG527612	Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527589	Chloride	SM4500Cl-E	Q6	Sample was received above recommended temperature.
			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).
	WG527572	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
	WG527612	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527428	Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	Q6	Sample was received above recommended temperature.
			M353.2 - H ₂ SO ₄ preserved	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).
	WG527087	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
			SM2540C	RO	The duplicate originally assigned to this sample was not used for precision assessment because residue density did not meet method limits. Another duplicate in the batch was used to assess precision. Method required duplicate frequency was not met.
	WG527147	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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
	WG527680	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	Q6	Sample was received above recommended temperature.
			D516-02/-07/-11 - TURBIDIMETRIC	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).
	WG527612	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

Ouray Silver Mines

ACZ Project ID: **L68342**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68342-03	WG527612	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527399	Carbon, dissolved organic (DOC)	SM5310B	Q6	Sample was received above recommended temperature.
			SM5310B	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).
	WG527612	Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527589	Chloride	SM4500Cl-E	Q6	Sample was received above recommended temperature.
			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).
	WG527572	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
	WG527612	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527428	Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	Q6	Sample was received above recommended temperature.
			M353.2 - H ₂ SO ₄ preserved	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).
	WG527087	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
			SM2540C	RO	The duplicate originally assigned to this sample was not used for precision assessment because residue density did not meet method limits. Another duplicate in the batch was used to assess precision. Method required duplicate frequency was not met.
	WG527147	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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
	WG527680	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	Q6	Sample was received above recommended temperature.
			D516-02/-07/-11 - TURBIDIMETRIC	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).
	WG527612	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

Ouray Silver Mines

ACZ Project ID: **L68342**

Metals Analysis

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Iron, dissolved	M200.8 ICP-MS
Iron, total recoverable	M200.8 ICP-MS

Ouray Silver Mines

ACZ Project ID: L68342

Date Received: 09/09/2021 11:35

Received By:

Date Printed: 9/10/2021

Receipt Verification

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

Samples/Containers

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

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?
-----	-----	-----	-----	-----
6932	9.2	<=6.0	15	Yes

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.

Ouray Silver Mines

ACZ Project ID: L68342

Date Received: 09/09/2021 11:35

Received By:

Date Printed: 9/10/2021

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).

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

L 68342
5493

Report to:

Name: Briana Greer		Address: 112 Village Square W Suite 205.
Company: Solid Solution Geosciences LLC		Ridgway CO, 81432
E-mail: briana@solidsolutiongeosciences.com		Telephone: 307-760-8838

Copy of Report to:

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

Invoice to:

Name: Ashlee Briggs		Address: PO BOX 564
Company: Ouray Silver Mines Inc.		Ouray, CO 81427
E-mail: abriggs@ouraysilvermines.com		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	☒
NO	☐

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	☒

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

Sampler's Name: Joshua Moore **Sampler's Site Information** State CO Zip code 81427 Time Zone Mtn

*Sampler's Signature: Laura M. Moore

*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

ANALYSES REQUESTED (attach list or use quote number)

Quote #: <u>SW</u>			# of Containers	<u>SW</u>											
PO#:															
Reporting state for compliance testing: <u>CO</u>															
Check box if samples include NRC licensed material?		☐													
SAMPLE IDENTIFICATION		DATE: TIME	Matrix												
<u>SW-0</u>		<u>9/8/21 09:55</u>	<u>SW</u>	<u>7</u>	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
<u>SW-16</u>		<u>9/8/21 14:17</u>	<u>SW</u>	<u>7</u>	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
<u>SW-21</u>		<u>9/8/21 10:38</u>	<u>SW</u>	<u>7</u>	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
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	
Jasmina Moore		9/8/21 15:15		J		9/6/21 11:35	

September 28, 2021

Report to:

Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Environmental, Accounts Payable

Bill to:

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

Project ID:

ACZ Project ID: L68495

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on September 15, 2021. This project has been assigned to ACZ's project number, L68495. Please reference this number in all future inquiries.

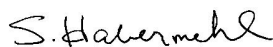
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L68495. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 28, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: OF002A

ACZ Sample ID: **L68495-01**

Date Sampled: 09/14/21 12:56

Date Received: 09/15/21

Sample Matrix: Waste Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002- 31.5.31 (2009)								09/19/21 12:45	ssr
Cyanide, WAD	SM4500-CN I- distillation		-						09/24/21 9:51	mjj1
Total Hot Plate Digestion	M200.2 ICP								09/21/21 14:13	kja
Total Recoverable Digestion	M200.2 ICP								09/21/21 15:09	kja

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, potentially dissolved	M200.8 ICP-MS	1	0.000171	B	*	mg/L	0.00005	0.00025	09/23/21 11:48	bsu
Copper, potentially dissolved	M200.8 ICP-MS	1	<0.0008	U	*	mg/L	0.0008	0.002	09/23/21 11:48	bsu
Iron, total recoverable	M200.7 ICP	1	0.791			mg/L	0.06	0.15	09/23/21 10:57	jlw
Lead, potentially dissolved	M200.8 ICP-MS	1	0.00309		*	mg/L	0.0001	0.0005	09/23/21 11:48	bsu
Lead, total	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.15	09/22/21 12:10	kja
Manganese, potentially dissolved	M200.8 ICP-MS	1	0.358		*	mg/L	0.0004	0.002	09/23/21 11:48	bsu
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/20/21 13:57	mlh
Silver, potentially dissolved	M200.8 ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	09/23/21 11:48	bsu
Zinc, potentially dissolved	M200.8 ICP-MS	1	0.0643		*	mg/L	0.006	0.015	09/23/21 11:48	bsu

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	09/24/21 13:48	mjj1
pH (lab)	SM4500H+ B									
pH		1	8.5	H		units	0.1	0.1	09/23/21 0:00	emk
pH measured at		1	21.8			C	0.1	0.1	09/23/21 0:00	emk
Residue, Non- Filterable (TSS) @105C	SM2540D	1	21.0		*	mg/L	5	20	09/20/21 16:25	scd



Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L68495**

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.

Cadmium, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527823													
WG527823ICV	ICV	09/23/21 11:18	MS210727-2	.05		.051912	mg/L	104	90	110			
WG527823ICB	ICB	09/23/21 11:20				U	mg/L		-0.00011	0.00011			
WG527823LFB	LFB	09/23/21 11:22	MS210827-2	.05005		.051331	mg/L	103	85	115			
WG527513PBW	PBW	09/23/21 11:24				U	mg/L		-0.00015	0.00015			
L68463-02AS	AS	09/23/21 11:43	MS210827-2	.05005	U	.051254	mg/L	102	70	130			
L68463-02ASD	ASD	09/23/21 11:45	MS210827-2	.05005	U	.052583	mg/L	105	70	130	3	20	

Copper, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527823													
WG527823ICV	ICV	09/23/21 11:18	MS210727-2	.05		.0526	mg/L	105	90	110			
WG527823ICB	ICB	09/23/21 11:20				U	mg/L		-0.00176	0.00176			
WG527823LFB	LFB	09/23/21 11:22	MS210827-2	.05		.05102	mg/L	102	85	115			
WG527513PBW	PBW	09/23/21 11:24				U	mg/L		-0.0024	0.0024			
L68463-02AS	AS	09/23/21 11:43	MS210827-2	.05	.023	.07028	mg/L	95	70	130			
L68463-02ASD	ASD	09/23/21 11:45	MS210827-2	.05	.023	.07213	mg/L	98	70	130	3	20	

Cyanide, WAD

SM4500-CN I,E-Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527970													
WG527970ICV	ICV	09/24/21 13:43	WI210913-7	.3		.297	mg/L	99	90	110			
WG527970ICB	ICB	09/24/21 13:44				U	mg/L		-0.003	0.003			
WG527846LRB	LRB	09/24/21 13:44				U	mg/L		-0.003	0.003			
WG527846LFB	LFB	09/24/21 13:45	WI210913-4	.2		.1935	mg/L	97	90	110			
L68492-02DUP	DUP	09/24/21 13:47			U	U	mg/L				0	20	RA
L68495-01LFM	LFM	09/24/21 13:49	WI210913-4	.2	U	.1815	mg/L	91	90	110			
WG527970ICV1	ICV	09/24/21 14:40	WI210913-7	.3		.2975	mg/L	99	90	110			
WG527970ICB1	ICB	09/24/21 14:41				U	mg/L		-0.003	0.003			
WG527970ICV2	ICV	09/24/21 15:23	WI210913-7	.3		.2982	mg/L	99	90	110			
WG527970ICB2	ICB	09/24/21 15:24				U	mg/L		-0.003	0.003			

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527790													
WG527790ICV	ICV	09/23/21 9:48	II210916-1	2		2.019	mg/L	101	95	105			
WG527790ICB	ICB	09/23/21 9:55				U	mg/L		-0.18	0.18			
WG527631LRB	LRB	09/23/21 10:08				U	mg/L		-0.132	0.132			
WG527631LFB	LFB	09/23/21 10:11	II210910-2	1.0001		1.046	mg/L	105	85	115			
L68495-01LFM	LFM	09/23/21 11:00	II210910-2	1.0001	.791	1.83	mg/L	104	70	130			
L68495-01LFMD	LFMD	09/23/21 11:03	II210910-2	1.0001	.791	1.849	mg/L	106	70	130	1	20	

Ouray Silver Mines

ACZ Project ID: **L68495**

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.

Lead, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527823													
WG527823ICV	ICV	09/23/21 11:18	MS210727-2	.05		.05135	mg/L	103	90	110			
WG527823ICB	ICB	09/23/21 11:20				U	mg/L		-0.00022	0.00022			
WG527823LFB	LFB	09/23/21 11:22	MS210827-2	.05005		.05185	mg/L	104	85	115			
WG527513PBW	PBW	09/23/21 11:24				U	mg/L		-0.0003	0.0003			
L68463-02AS	AS	09/23/21 11:43	MS210827-2	.05005	.00022	.05261	mg/L	105	70	130			
L68463-02ASD	ASD	09/23/21 11:45	MS210827-2	.05005	.00022	.05366	mg/L	107	70	130	2	20	

Lead, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527753													
WG527753ICV	ICV	09/22/21 11:24	II210823-1	4		4.05	mg/L	101	95	105			
WG527753ICB	ICB	09/22/21 11:30				U	mg/L		-0.09	0.09			
WG527632LRB	LRB	09/22/21 11:43				U	mg/L		-0.066	0.066			
WG527632LFB	LFB	09/22/21 11:46	II210910-2	1.0014		1.007	mg/L	101	85	115			
L68487-01LFM	LFM	09/22/21 12:04	II210910-2	1.0014	U	1.005	mg/L	100	70	130			
L68487-01LFMD	LFMD	09/22/21 12:07	II210910-2	1.0014	U	1.014	mg/L	101	70	130	1	20	

Manganese, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527823													
WG527823ICV	ICV	09/23/21 11:18	MS210727-2	.05		.05157	mg/L	103	90	110			
WG527823ICB	ICB	09/23/21 11:20				U	mg/L		-0.00088	0.00088			
WG527823LFB	LFB	09/23/21 11:22	MS210827-2	.0499		.05163	mg/L	103	85	115			
WG527513PBW	PBW	09/23/21 11:24				U	mg/L		-0.0012	0.0012			
L68463-02AS	AS	09/23/21 11:43	MS210827-2	.0499	.03	.08151	mg/L	103	70	130			
L68463-02ASD	ASD	09/23/21 11:45	MS210827-2	.0499	.03	.0831	mg/L	106	70	130	2	20	

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527527													
WG527527ICV	ICV	09/20/21 11:56	HG210913-3	.00501		.00506	mg/L	101	95	105			
WG527527ICB	ICB	09/20/21 11:57				U	mg/L		-0.0002	0.0002			
WG527552													
WG527552LRB	LRB	09/20/21 13:45				U	mg/L		-0.00044	0.00044			
WG527552LFB	LFB	09/20/21 13:46	HG210913-6	.002002		.00171	mg/L	85	85	115			
L68411-01LFM	LFM	09/20/21 13:48	HG210913-6	.002002	U	.00183	mg/L	91	85	115			
L68411-01LFMD	LFMD	09/20/21 13:48	HG210913-6	.002002	U	.00182	mg/L	91	85	115	1	20	

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527916													
WG527916LCSW1	LCSW	09/23/21 17:19	PCN62948	6		6.1	units	102	5.9	6.1			
L68495-01DUP	DUP	09/23/21 20:53			8.5	8.5	units				0	20	
WG527916LCSW4	LCSW	09/23/21 20:58	PCN62948	6		6.1	units	102	5.9	6.1			
WG527916LCSW7	LCSW	09/24/21 0:35	PCN62948	6		6.1	units	102	5.9	6.1			
WG527916LCSW10	LCSW	09/24/21 4:47	PCN62948	6		6.1	units	102	5.9	6.1			
WG527916LCSW13	LCSW	09/24/21 8:23	PCN62948	6		6.1	units	102	5.9	6.1			

Ouray Silver Mines

ACZ Project ID: **L68495**

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.

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

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527607													
WG527607PBW	PBW	09/20/21 16:10				U	mg/L		-5	5			
WG527607LCSW	LCSW	09/20/21 16:12	PCN64134	100		90	mg/L	90	80	120			
L68500-04DUP	DUP	09/20/21 16:36			U	U	mg/L				0	10	RA

Silver, potentially dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527823													
WG527823ICV	ICV	09/23/21 11:18	MS210727-2	.02		.02069	mg/L	103	90	110			
WG527823ICB	ICB	09/23/21 11:20				U	mg/L		-0.00022	0.00022			
WG527823LFB	LFB	09/23/21 11:22	MS210827-2	.01002		.01118	mg/L	112	85	115			
WG527513PBW	PBW	09/23/21 11:24				U	mg/L		-0.0003	0.0003			
L68463-02AS	AS	09/23/21 11:43	MS210827-2	.01002	U	.0106	mg/L	106	70	130			
L68463-02ASD	ASD	09/23/21 11:45	MS210827-2	.01002	U	.01083	mg/L	108	70	130	2	20	

Zinc, potentially dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527823													
WG527823ICV	ICV	09/23/21 11:18	MS210727-2	.05		.05	mg/L	100	90	110			
WG527823ICB	ICB	09/23/21 11:20				U	mg/L		-0.0132	0.0132			
WG527823LFB	LFB	09/23/21 11:22	MS210827-2	.050075		.0539	mg/L	108	85	115			
WG527513PBW	PBW	09/23/21 11:24				U	mg/L		-0.018	0.018			
L68463-02AS	AS	09/23/21 11:43	MS210827-2	.050075	.0377	.0889	mg/L	102	70	130			
L68463-02ASD	ASD	09/23/21 11:45	MS210827-2	.050075	.0377	.0902	mg/L	105	70	130	1	20	
WG527435PBW	PBW	09/23/21 11:54				U	mg/L		-0.018	0.018			

Ouray Silver MinesACZ Project ID: **L68495**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68495-01	WG527823	Cadmium, potentially dissolved	M200.8 ICP-MS	Q5	Sample received with inadequate chemical preservation. Additional preservation performed by the laboratory.
		Copper, potentially dissolved	M200.8 ICP-MS	Q5	Sample received with inadequate chemical preservation. Additional preservation performed by the laboratory.
	WG527970	Cyanide, WAD	SM4500-CN I,E-Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			SM4500-CN I,E-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).
	WG527823	Lead, potentially dissolved	M200.8 ICP-MS	Q5	Sample received with inadequate chemical preservation. Additional preservation performed by the laboratory.
		Manganese, potentially dissolved	M200.8 ICP-MS	Q5	Sample received with inadequate chemical preservation. Additional preservation performed by the laboratory.
	WG527607	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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
	WG527823	Silver, potentially dissolved	M200.8 ICP-MS	Q5	Sample received with inadequate chemical preservation. Additional preservation performed by the laboratory.
		Zinc, potentially dissolved	M200.8 ICP-MS	Q5	Sample received with inadequate chemical preservation. Additional preservation performed by the laboratory.

Ouray Silver Mines

ACZ Project ID: **L68495**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L68495

Date Received: 09/15/2021 09:36

Received By:

Date Printed: 9/16/2021

Receipt Verification

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

Samples/Containers

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

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?
NA35938	9.3	<=6.0	15	Yes

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.

Ouray Silver Mines

ACZ Project ID: L68495

Date Received: 09/15/2021 09:36

Received By:

Date Printed: 9/16/2021

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).



Laboratories, Inc. L68495

CHAIN of CUSTODY

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

Report to:

Name: Briana Greer
Company: Solid Solution Geosciences LLC
E-mail: briana@solidsolutiongeosciences.com.com

Address: 112 Village Square W Suite 205.
Ridgway CO, 81432
Telephone: 307-760-8838

Copy of Report to:

Name: Environmental
Company: Ouray Silver Mines Inc.

E-mail: environmental@ouraysilvermines.com
Telephone: 970-325-9830

Invoice to:

Name: Ashlee Briggs
Company: Ouray Silver Mines Inc.
E-mail: abriggs@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 ☒
NO ☐

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 ☒

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

Sampler's Name: Joshua A. Moore Sampler's Site Information State CO Zip code 81427 Time Zone Mtn

*Sampler's Signature: Joshua A. Moore

*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

ANALYSES REQUESTED (attach list or use quote number)

Quote #: CDPS-BIMONTH-WW

PO#:

Reporting state for compliance testing: CO

Check box if samples include NRC licensed material? ☐

SAMPLE IDENTIFICATION		DATE:TIME	Matrix	# of Containers	CDPS-BIMONTH-WW												
OF002A		9/14/21 12:48	WW	4	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
			WW		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
			WW		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
			WW		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
			WW		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
			WW		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
			WW		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
			WW		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
			WW		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
			WW		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
			WW		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

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

Joshua A. Moore

9/14/21 13:44

[Signature]

9/15/21 9:30

FRMAD050.06.14.14

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

L68495 Chain of Custody

September 30, 2021

Report to:

Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Environmental, Accounts Payable

Bill to:

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

Project ID:

ACZ Project ID: L68500

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on September 15, 2021. This project has been assigned to ACZ's project number, L68500. 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 L68500. 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 30, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: SW-0

ACZ Sample ID: **L68500-01**

Date Sampled: 09/14/21 09:17

Date Received: 09/15/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								09/20/21 14:30	bsu

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	<0.005	U		mg/L	0.005	0.015	09/23/21 18:54	bsu
Aluminum, total recoverable	M200.8 ICP-MS	1	<0.005	U		mg/L	0.005	0.015	09/21/21 15:33	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	09/23/21 18:54	bsu
Arsenic, total recoverable	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	09/21/21 15:33	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	09/23/21 18:54	bsu
Calcium, dissolved	M200.7 ICP	1	<0.1	U		mg/L	0.1	0.5	09/20/21 19:19	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/23/21 18:54	bsu
Iron, dissolved	M200.8 ICP-MS	1	<0.007	U	*	mg/L	0.007	0.02	09/23/21 18:54	bsu
Iron, total recoverable	M200.8 ICP-MS	1	<0.007	U	*	mg/L	0.007	0.02	09/21/21 15:33	mfm
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/23/21 18:54	bsu
Magnesium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	09/21/21 13:53	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	09/20/21 19:19	kja
Mercury, total	M1631E, Atomic Fluorescence	1	<0.3	U		ng/L	0.3	1	09/23/21 14:20	scp
Potassium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	09/20/21 19:19	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/23/21 18:54	bsu
Sodium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	09/20/21 19:19	kja
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	09/20/21 19:19	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-0

ACZ Sample ID: **L68500-01**

Date Sampled: 09/14/21 09:17

Date Received: 09/15/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	<2	U		mg/L	2	20	09/23/21 0:00	emk
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	09/23/21 0:00	emk
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	09/23/21 0:00	emk
Total Alkalinity		1	<2	U		mg/L	2	20	09/23/21 0:00	emk
Carbon, dissolved organic (DOC)	SM5310B	1	1.1	B	*	mg/L	1	5	09/17/21 19:41	md
Cation-Anion Balance	Calculation									
Cation-Anion Balance			n/a			%			09/30/21 0:00	calc
Sum of Anions			<	U		meq/L			09/30/21 0:00	calc
Sum of Cations			<	U		meq/L			09/30/21 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	09/24/21 9:07	md
Fluoride	SM4500F-C	1	<0.15	U	*	mg/L	0.15	0.35	09/21/21 15:10	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		<0.2	U		mg/L	0.2	5	09/30/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	<0.02	U		mg/L	0.02	0.1	09/24/21 0:48	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	<20	U	*	mg/L	20	40	09/20/21 13:33	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	09/20/21 16:27	scd
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	<1	U	*	mg/L	1	5	09/24/21 14:05	wtc
TDS (calculated)	Calculation					mg/L			09/30/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		n/a						09/30/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW-99

ACZ Sample ID: **L68500-02**

Date Sampled: 09/14/21 10:34

Date Received: 09/15/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								09/20/21 14:48	bsu

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	<0.005	U		mg/L	0.005	0.015	09/23/21 18:56	bsu
Aluminum, total recoverable	M200.8 ICP-MS	1	0.0434			mg/L	0.005	0.015	09/21/21 15:38	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00084	B		mg/L	0.0002	0.001	09/23/21 18:56	bsu
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00109			mg/L	0.0002	0.001	09/21/21 15:38	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000065	B		mg/L	0.00005	0.00025	09/23/21 18:56	bsu
Calcium, dissolved	M200.7 ICP	1	31.1			mg/L	0.1	0.5	09/20/21 19:22	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/23/21 18:56	bsu
Iron, dissolved	M200.8 ICP-MS	1	<0.007	U	*	mg/L	0.007	0.02	09/23/21 18:56	bsu
Iron, total recoverable	M200.8 ICP-MS	1	0.0314		*	mg/L	0.007	0.02	09/21/21 15:38	mfm
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/23/21 18:56	bsu
Magnesium, dissolved	M200.7 ICP	1	2.57			mg/L	0.2	1	09/21/21 13:56	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	09/20/21 19:22	kja
Mercury, total	M1631E, Atomic Fluorescence	1	<0.3	U		ng/L	0.3	1	09/23/21 14:24	scp
Potassium, dissolved	M200.7 ICP	1	0.41	B		mg/L	0.2	1	09/20/21 19:22	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/23/21 18:56	bsu
Sodium, dissolved	M200.7 ICP	1	2.33			mg/L	0.2	1	09/20/21 19:22	kja
Zinc, dissolved	M200.7 ICP	1	0.022	B		mg/L	0.02	0.05	09/20/21 19:22	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-99

ACZ Sample ID: **L68500-02**

Date Sampled: 09/14/21 10:34

Date Received: 09/15/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	35.6			mg/L	2	20	09/23/21 0:00	emk
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	09/23/21 0:00	emk
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	09/23/21 0:00	emk
Total Alkalinity		1	35.6			mg/L	2	20	09/23/21 0:00	emk
Carbon, dissolved organic (DOC)	SM5310B	1	<1	U	*	mg/L	1	5	09/17/21 19:53	md
Cation-Anion Balance	Calculation									
Cation-Anion Balance			2.7			%			09/30/21 0:00	calc
Sum of Anions			1.8			meq/L			09/30/21 0:00	calc
Sum of Cations			1.9			meq/L			09/30/21 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	09/24/21 9:08	md
Fluoride	SM4500F-C	1	0.22	B		mg/L	0.15	0.35	09/21/21 15:23	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		88			mg/L	0.2	5	09/30/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.046	B		mg/L	0.02	0.1	09/24/21 0:49	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	104			mg/L	20	40	09/20/21 13:35	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	09/20/21 16:29	scd
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	53.2		*	mg/L	5	25	09/24/21 14:14	wtc
TDS (calculated)	Calculation		112			mg/L			09/30/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.93						09/30/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW-2

ACZ Sample ID: **L68500-03**

Date Sampled: 09/14/21 11:22

Date Received: 09/15/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								09/20/21 15:05	bsu

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	<0.005	U		mg/L	0.005	0.015	09/23/21 18:57	bsu
Aluminum, total recoverable	M200.8 ICP-MS	1	0.0832			mg/L	0.005	0.015	09/21/21 15:40	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00076	B		mg/L	0.0002	0.001	09/23/21 18:57	bsu
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00105			mg/L	0.0002	0.001	09/21/21 15:40	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	09/23/21 18:57	bsu
Calcium, dissolved	M200.7 ICP	1	31.2			mg/L	0.1	0.5	09/20/21 19:31	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/23/21 18:57	bsu
Iron, dissolved	M200.8 ICP-MS	1	<0.007	U	*	mg/L	0.007	0.02	09/23/21 18:57	bsu
Iron, total recoverable	M200.8 ICP-MS	1	0.0625		*	mg/L	0.007	0.02	09/21/21 15:40	mfm
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/23/21 18:57	bsu
Magnesium, dissolved	M200.7 ICP	1	2.44			mg/L	0.2	1	09/21/21 14:06	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	09/20/21 19:31	kja
Mercury, total	M1631E, Atomic Fluorescence	1	0.44	B		ng/L	0.3	1	09/23/21 14:29	scp
Potassium, dissolved	M200.7 ICP	1	0.38	B		mg/L	0.2	1	09/20/21 19:31	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/23/21 18:57	bsu
Sodium, dissolved	M200.7 ICP	1	2.13			mg/L	0.2	1	09/20/21 19:31	kja
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	09/20/21 19:31	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-2

ACZ Sample ID: **L68500-03**

Date Sampled: 09/14/21 11:22

Date Received: 09/15/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	33.7			mg/L	2	20	09/23/21 0:00	emk
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	09/23/21 0:00	emk
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	09/23/21 0:00	emk
Total Alkalinity		1	33.7			mg/L	2	20	09/23/21 0:00	emk
Carbon, dissolved organic (DOC)	SM5310B	1	<1	U	*	mg/L	1	5	09/17/21 20:05	md
Cation-Anion Balance	Calculation									
Cation-Anion Balance			2.7			%			09/30/21 0:00	calc
Sum of Anions			1.8			meq/L			09/30/21 0:00	calc
Sum of Cations			1.9			meq/L			09/30/21 0:00	calc
Chloride	SM4500Cl-E	1	0.65	B	*	mg/L	0.5	2	09/24/21 9:09	md
Fluoride	SM4500F-C	1	0.21	B		mg/L	0.15	0.35	09/21/21 15:28	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		88.0			mg/L	0.2	5	09/30/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.053	B		mg/L	0.02	0.1	09/24/21 0:55	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	102			mg/L	20	40	09/20/21 13:38	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	09/20/21 16:31	scd
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	52.1		*	mg/L	5	25	09/24/21 14:15	wtc
TDS (calculated)	Calculation		110			mg/L			09/30/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.93						09/30/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW-15

ACZ Sample ID: **L68500-04**

Date Sampled: 09/14/21 10:14

Date Received: 09/15/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								09/20/21 15:22	bsu

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	<0.005	U		mg/L	0.005	0.015	09/23/21 18:59	bsu
Aluminum, total recoverable	M200.8 ICP-MS	1	0.0375			mg/L	0.005	0.015	09/21/21 15:42	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00087	B		mg/L	0.0002	0.001	09/23/21 18:59	bsu
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00100			mg/L	0.0002	0.001	09/21/21 15:42	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.000063	B		mg/L	0.00005	0.00025	09/23/21 18:59	bsu
Calcium, dissolved	M200.7 ICP	1	31.7			mg/L	0.1	0.5	09/20/21 19:40	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/23/21 18:59	bsu
Iron, dissolved	M200.8 ICP-MS	1	<0.007	U	*	mg/L	0.007	0.02	09/23/21 18:59	bsu
Iron, total recoverable	M200.8 ICP-MS	1	0.0302		*	mg/L	0.007	0.02	09/21/21 15:42	mfm
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/23/21 18:59	bsu
Magnesium, dissolved	M200.7 ICP	1	2.79			mg/L	0.2	1	09/21/21 14:15	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	09/20/21 19:40	kja
Mercury, total	M1631E, Atomic Fluorescence	1	<0.3	U		ng/L	0.3	1	09/23/21 14:34	scp
Potassium, dissolved	M200.7 ICP	1	0.51	B		mg/L	0.2	1	09/20/21 19:40	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/23/21 18:59	bsu
Sodium, dissolved	M200.7 ICP	1	2.46			mg/L	0.2	1	09/20/21 19:40	kja
Zinc, dissolved	M200.7 ICP	1	0.025	B		mg/L	0.02	0.05	09/20/21 19:40	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-15

ACZ Sample ID: **L68500-04**

Date Sampled: 09/14/21 10:14

Date Received: 09/15/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	36.2			mg/L	2	20	09/23/21 0:00	emk
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	09/23/21 0:00	emk
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	09/23/21 0:00	emk
Total Alkalinity		1	36.2			mg/L	2	20	09/23/21 0:00	emk
Carbon, dissolved organic (DOC)	SM5310B	1	<1	U	*	mg/L	1	5	09/17/21 20:22	md
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			09/30/21 0:00	calc
Sum of Anions			1.9			meq/L			09/30/21 0:00	calc
Sum of Cations			1.9			meq/L			09/30/21 0:00	calc
Chloride	SM4500Cl-E	1	0.56	B	*	mg/L	0.5	2	09/24/21 9:09	md
Fluoride	SM4500F-C	1	0.21	B		mg/L	0.15	0.35	09/21/21 15:35	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		91			mg/L	0.2	5	09/30/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.052	B		mg/L	0.02	0.1	09/24/21 0:56	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	104			mg/L	20	40	09/20/21 13:40	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	09/20/21 16:33	scd
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	52.7		*	mg/L	5	25	09/24/21 15:28	wtc
TDS (calculated)	Calculation		113			mg/L			09/30/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.92						09/30/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: SW-17

ACZ Sample ID: **L68500-05**

Date Sampled: 09/14/21 12:05

Date Received: 09/15/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Recoverable Digestion	M200.2 ICP-MS								09/20/21 16:15	bsu

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.8 ICP-MS	1	0.0079	B		mg/L	0.005	0.015	09/23/21 19:01	bsu
Aluminum, total recoverable	M200.8 ICP-MS	1	0.311			mg/L	0.005	0.015	09/21/21 15:47	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00037	B		mg/L	0.0002	0.001	09/23/21 19:01	bsu
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00075	B		mg/L	0.0002	0.001	09/21/21 15:47	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	09/23/21 19:01	bsu
Calcium, dissolved	M200.7 ICP	1	27.9			mg/L	0.1	0.5	09/20/21 19:43	kja
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/23/21 19:01	bsu
Iron, dissolved	M200.8 ICP-MS	1	<0.007	U	*	mg/L	0.007	0.02	09/23/21 19:01	bsu
Iron, total recoverable	M200.8 ICP-MS	1	0.205		*	mg/L	0.007	0.02	09/21/21 15:47	mfm
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/23/21 19:01	bsu
Magnesium, dissolved	M200.7 ICP	1	2.42			mg/L	0.2	1	09/21/21 14:18	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	09/20/21 19:43	kja
Mercury, total	M1631E, Atomic Fluorescence	1	0.77	B		ng/L	0.3	1	09/23/21 14:48	scp
Potassium, dissolved	M200.7 ICP	1	0.38	B		mg/L	0.2	1	09/20/21 19:43	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/23/21 19:01	bsu
Sodium, dissolved	M200.7 ICP	1	1.21			mg/L	0.2	1	09/20/21 19:43	kja
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	09/20/21 19:43	kja

Ouray Silver Mines

Project ID:

Sample ID: SW-17

ACZ Sample ID: **L68500-05**

Date Sampled: 09/14/21 12:05

Date Received: 09/15/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	30.3			mg/L	2	20	09/23/21 0:00	emk
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	09/23/21 0:00	emk
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	09/23/21 0:00	emk
Total Alkalinity		1	30.3			mg/L	2	20	09/23/21 0:00	emk
Carbon, dissolved organic (DOC)	SM5310B	1	<1	U	*	mg/L	1	5	09/17/21 20:56	md
Cation-Anion Balance	Calculation									
Cation-Anion Balance			3.0			%			09/30/21 0:00	calc
Sum of Anions			1.6			meq/L			09/30/21 0:00	calc
Sum of Cations			1.7			meq/L			09/30/21 0:00	calc
Chloride	SM4500Cl-E	1	0.52	B	*	mg/L	0.5	2	09/24/21 9:11	md
Fluoride	SM4500F-C	1	<0.15	U	*	mg/L	0.15	0.35	09/21/21 15:39	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		80			mg/L	0.2	5	09/30/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	0.059	B		mg/L	0.02	0.1	09/24/21 0:57	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	82			mg/L	20	40	09/20/21 13:43	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	6.0	B	*	mg/L	5	20	09/20/21 16:38	scd
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	47.0		*	mg/L	5	25	09/24/21 15:28	wtc
TDS (calculated)	Calculation		97.9			mg/L			09/30/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.84						09/30/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: HG TRIP BLANK

ACZ Sample ID: **L68500-06**

Date Sampled: 09/14/21 09:44

Date Received: 09/15/21

Sample Matrix: *Surface Water*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Mercury, total	M1631E, Atomic Fluorescence	1	<0.3	U		ng/L	0.3	1	09/23/21 14:53	scp



Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L68500**

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
WG527916													
WG527916PBW1	PBW	09/23/21 17:14				U	mg/L		-20	20			
WG527916LCSW3	LCSW	09/23/21 17:33	WC210917-2	820.0001		823.2	mg/L	100	90	110			
WG527916LCSW6	LCSW	09/23/21 21:12	WC210917-2	820.0001		812.1	mg/L	99	90	110			
WG527916PBW2	PBW	09/23/21 21:19				U	mg/L		-20	20			
L68500-02DUP	DUP	09/23/21 23:07			35.6	35.8	mg/L				1	20	
L68516-01DUP	DUP	09/24/21 0:30			80.9	80.6	mg/L				0	20	
WG527916LCSW9	LCSW	09/24/21 0:50	WC210917-2	820.0001		813.9	mg/L	99	90	110			
WG527916PBW3	PBW	09/24/21 0:57				U	mg/L		-20	20			
WG527916LCSW12	LCSW	09/24/21 5:02	WC210917-2	820.0001		818.3	mg/L	100	90	110			
WG527916PBW4	PBW	09/24/21 5:09				U	mg/L		-20	20			
WG527916LCSW15	LCSW	09/24/21 8:38	WC210917-2	820.0001		821.1	mg/L	100	90	110			

Aluminum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527914													
WG527914ICV	ICV	09/23/21 18:06	MS210727-2	.1		.1022	mg/L	102	90	110			
WG527914ICB	ICB	09/23/21 18:08				U	mg/L		-0.011	0.011			
WG527914LFB	LFB	09/23/21 18:10	MS210827-2	.050065		.0479	mg/L	96	85	115			
L68497-02AS	AS	09/23/21 18:41	MS210827-2	.050065	U	.0537	mg/L	107	70	130			
L68497-02ASD	ASD	09/23/21 18:43	MS210827-2	.050065	U	.0544	mg/L	109	70	130	1	20	

Aluminum, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527692													
WG527692ICV	ICV	09/21/21 14:51	MS210727-2	.1		.1006	mg/L	101	90	110			
WG527692ICB	ICB	09/21/21 14:53				U	mg/L		-0.015	0.015			
WG527530LRB	LRB	09/21/21 14:54				U	mg/L		-0.011	0.011			
WG527530LFB	LFB	09/21/21 14:56	MS210827-2	.050065		.0497	mg/L	99	85	115			
L68500-04LFM	LFM	09/21/21 15:43	MS210827-2	.050065	.0375	.0825	mg/L	90	70	130			
L68500-04LFMD	LFMD	09/21/21 15:45	MS210827-2	.050065	.0375	.0884	mg/L	102	70	130	7	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527914													
WG527914ICV	ICV	09/23/21 18:06	MS210727-2	.05		.05106	mg/L	102	90	110			
WG527914ICB	ICB	09/23/21 18:08				U	mg/L		-0.00044	0.00044			
WG527914LFB	LFB	09/23/21 18:10	MS210827-2	.05005		.04682	mg/L	94	85	115			
L68497-02AS	AS	09/23/21 18:41	MS210827-2	.05005	.0584	.10596	mg/L	95	70	130			
L68497-02ASD	ASD	09/23/21 18:43	MS210827-2	.05005	.0584	.10705	mg/L	97	70	130	1	20	

Ouray Silver Mines

ACZ Project ID: **L68500**

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.

Arsenic, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527692													
WG527692ICV	ICV	09/21/21 14:51	MS210727-2	.05		.05054	mg/L	101	90	110			
WG527692ICB	ICB	09/21/21 14:53				U	mg/L		-0.0006	0.0006			
WG527530LRB	LRB	09/21/21 14:54				U	mg/L		-0.00044	0.00044			
WG527530LFB	LFB	09/21/21 14:56	MS210827-2	.05005		.04967	mg/L	99	85	115			
L68500-04LFM	LFM	09/21/21 15:43	MS210827-2	.05005	.001	.04825	mg/L	94	70	130			
L68500-04LFMD	LFMD	09/21/21 15:45	MS210827-2	.05005	.001	.04779	mg/L	93	70	130	1	20	

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527914													
WG527914ICV	ICV	09/23/21 18:06	MS210727-2	.05		.051895	mg/L	104	90	110			
WG527914ICB	ICB	09/23/21 18:08				U	mg/L		-0.00011	0.00011			
WG527914LFB	LFB	09/23/21 18:10	MS210827-2	.05005		.046643	mg/L	93	85	115			
L68497-02AS	AS	09/23/21 18:41	MS210827-2	.05005	U	.049196	mg/L	98	70	130			
L68497-02ASD	ASD	09/23/21 18:43	MS210827-2	.05005	U	.050324	mg/L	101	70	130	2	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527569													
WG527569ICV	ICV	09/20/21 17:59	II210916-1	100		96.76	mg/L	97	95	105			
WG527569ICB	ICB	09/20/21 18:05				.29	mg/L		-0.3	0.3			
WG527569LFB	LFB	09/20/21 18:17	II210910-2	67.98972		67.13	mg/L	99	85	115			
L68500-03AS	AS	09/20/21 19:34	II210910-2	67.98972	31.2	98.16	mg/L	98	85	115			
L68500-03ASD	ASD	09/20/21 19:37	II210910-2	67.98972	31.2	98.88	mg/L	100	85	115	1	20	

Carbon, dissolved organic (DOC)

SM5310B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527444													
WG527444LFB	LFB	09/17/21 16:11	WI210817-3	50		54.1	mg/L	108	90	110			
L68500-04DUP	DUP	09/17/21 20:39			U	U	mg/L				0	20	RA
L68500-05AS	AS	09/17/21 21:16	WI210817-3	50	U	53.3	mg/L	107	90	110			

Chloride

SM4500Cl-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527908													
WG527908ICV	ICV	09/24/21 8:58	WI210503-1	54.89		53.46	mg/L	97	90	110			
WG527908ICB	ICB	09/24/21 8:58				U	mg/L		-1.5	1.5			
L68500-01DUP	DUP	09/24/21 9:08			U	U	mg/L				0	20	M2 RA
WG527908LFB2	LFB	09/24/21 9:14	WI210908-11	29.97		28.52	mg/L	95	90	110			
WG527908LFB1	LFB	09/24/21 10:03	WI210908-11	29.97		32.44	mg/L	108	90	110			
L68496-05AS	AS	09/24/21 10:05	WI210908-11	29.97	36	62.37	mg/L	88	90	110			M2

Ouray Silver Mines

ACZ Project ID: **L68500**

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.

Copper, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527914													
WG527914ICV	ICV	09/23/21 18:06	MS210727-2	.05		.05219	mg/L	104	90	110			
WG527914ICB	ICB	09/23/21 18:08				U	mg/L		-0.00176	0.00176			
WG527914LFB	LFB	09/23/21 18:10	MS210827-2	.05		.04687	mg/L	94	85	115			
L68497-02AS	AS	09/23/21 18:41	MS210827-2	.05	U	.04728	mg/L	95	70	130			
L68497-02ASD	ASD	09/23/21 18:43	MS210827-2	.05	U	.0477	mg/L	95	70	130	1	20	

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527652													
WG527652ICV	ICV	09/21/21 12:04	WC210920-1	2.002		2.19	mg/L	109	90	110			
WG527652ICB	ICB	09/21/21 12:09				U	mg/L		-0.3	0.3			
WG527652LFB1	LFB	09/21/21 12:16	WC210803-9	5.02		5.38	mg/L	107	90	110			
L68410-01AS	AS	09/21/21 14:08	WC210803-9	5.02	U	5.52	mg/L	110	90	110			
L68410-01ASD	ASD	09/21/21 14:11	WC210803-9	5.02	U	5.45	mg/L	109	90	110	1	20	
L68500-01AS	AS	09/21/21 15:14	WC210803-9	5.02	U	5.63	mg/L	112	90	110			MA
L68500-01ASD	ASD	09/21/21 15:18	WC210803-9	5.02	U	5.52	mg/L	110	90	110	2	20	
WG527652LFB2	LFB	09/21/21 15:31	WC210803-9	5.02		5.45	mg/L	109	90	110			

Iron, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527914													
WG527914ICV	ICV	09/23/21 18:06	MS210727-2	.10016		.0998	mg/L	100	90	110			
WG527914ICB	ICB	09/23/21 18:08				U	mg/L		-0.0154	0.0154			
WG527914LFB	LFB	09/23/21 18:10	MS210827-2	.0501		.0504	mg/L	101	85	115			
L68497-02AS	AS	09/23/21 18:41	MS210827-2	.0501	.026	.0725	mg/L	93	70	130			
L68497-02ASD	ASD	09/23/21 18:43	MS210827-2	.0501	.026	.0739	mg/L	96	70	130	2	20	

Iron, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527692													
WG527692ICV	ICV	09/21/21 14:51	MS210727-2	.10016		.0981	mg/L	98	90	110			
WG527692ICB	ICB	09/21/21 14:53				U	mg/L		-0.021	0.021			
WG527530LRB	LRB	09/21/21 14:54				U	mg/L		-0.0154	0.0154			
WG527530LFB	LFB	09/21/21 14:56	MS210827-2	.0501		.0501	mg/L	100	85	115			
L68500-04LFM	LFM	09/21/21 15:43	MS210827-2	.0501	.0302	.0761	mg/L	92	70	130			
L68500-04LFMD	LFMD	09/21/21 15:45	MS210827-2	.0501	.0302	.0791	mg/L	98	70	130	4	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527914													
WG527914ICV	ICV	09/23/21 18:06	MS210727-2	.05		.05137	mg/L	103	90	110			
WG527914ICB	ICB	09/23/21 18:08				U	mg/L		-0.00022	0.00022			
WG527914LFB	LFB	09/23/21 18:10	MS210827-2	.05005		.04663	mg/L	93	85	115			
L68497-02AS	AS	09/23/21 18:41	MS210827-2	.05005	U	.04977	mg/L	99	70	130			
L68497-02ASD	ASD	09/23/21 18:43	MS210827-2	.05005	U	.05092	mg/L	102	70	130	2	20	

Ouray Silver Mines

ACZ Project ID: **L68500**

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.

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527638													
WG527638ICV	ICV	09/21/21 12:35	II210916-1	100		95.44	mg/L	95	95	105			
WG527638ICB	ICB	09/21/21 12:41				U	mg/L		-0.6	0.6			
WG527638LFB	LFB	09/21/21 12:53	II210910-2	49.99828		48.39	mg/L	97	85	115			
L68500-03AS	AS	09/21/21 14:09	II210910-2	49.99828	2.44	50.69	mg/L	97	85	115			
L68500-03ASD	ASD	09/21/21 14:12	II210910-2	49.99828	2.44	50.46	mg/L	96	85	115	0	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527569													
WG527569ICV	ICV	09/20/21 17:59	II210916-1	2		1.924	mg/L	96	95	105			
WG527569ICB	ICB	09/20/21 18:05				U	mg/L		-0.03	0.03			
WG527569LFB	LFB	09/20/21 18:17	II210910-2	.5005		.491	mg/L	98	85	115			
L68500-03AS	AS	09/20/21 19:34	II210910-2	.5005	U	.503	mg/L	100	85	115			
L68500-03ASD	ASD	09/20/21 19:37	II210910-2	.5005	U	.505	mg/L	101	85	115	0	20	

Mercury, total

M1631E, Atomic Fluorescence

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523056													
WG523056ICV1	ICV	07/13/21 11:31	HG210709-4	10		10.2	ng/L	102	79	121			
WG523056ICB1	ICB	07/13/21 11:36				U	ng/L		-0.501	0.501			
WG527730													
WG527730CCV1	CCV	09/23/21 10:20	HG210709-4	10		9.89	ng/L	99	76.5	123.4			
WG527730CCB1	CCB	09/23/21 10:24				U	ng/L		-0.501	0.501			
WG527730PQV	PQV	09/23/21 10:29	HG210709-6	1		1.12	ng/L	112	70	130			
WG527730CCV2	CCV	09/23/21 13:21	HG210709-4	10		9.98	ng/L	100	76.5	123.4			
WG527730CCB2	CCB	09/23/21 13:26				U	ng/L		-0.501	0.501			
WG527730LFB	LFB	09/23/21 13:31	HG210709-5	2		1.94	ng/L	97	71	125			
L68500-04MS	MS	09/23/21 14:39	HG210709-5	2	U	2.22	ng/L	111	71	125			
L68500-04MSD	MSD	09/23/21 14:43	HG210709-5	2	U	2.37	ng/L	119	71	125	7	24	
WG527730CCV3	CCV	09/23/21 14:58	HG210709-4	10		10.3	ng/L	103	76.5	123.4			
WG527730CCB3	CCB	09/23/21 15:03				U	ng/L		-0.501	0.501			
WG527730CCV4	CCV	09/23/21 15:55	HG210709-4	10		10.3	ng/L	103	76.5	123.4			
WG527730CCB4	CCB	09/23/21 16:00				U	ng/L		-0.501	0.501			
WG527730CCV5	CCV	09/23/21 16:29	HG210709-4	10		10.1	ng/L	101	76.5	123.4			
WG527730CCB5	CCB	09/23/21 16:33				U	ng/L		-0.501	0.501			

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527921													
WG527921ICV	ICV	09/23/21 23:05	WI210904-1	2.4161		2.383	mg/L	99	90	110			
WG527921ICB	ICB	09/23/21 23:06				U	mg/L		-0.02	0.02			
WG527925													
WG527925LFB	LFB	09/24/21 0:38	WI210331-13	2		1.872	mg/L	94	90	110			
L68480-02AS	AS	09/24/21 1:19	WI210331-13	20	10.7	30.908	mg/L	101	90	110			
L68480-03DUP	DUP	09/24/21 1:22			10.6	10.621	mg/L				0	20	

Ouray Silver Mines

ACZ Project ID: **L68500**

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.

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527569													
WG527569ICV	ICV	09/20/21 17:59	II210916-1	20		19.54	mg/L	98	95	105			
WG527569ICB	ICB	09/20/21 18:05				U	mg/L		-0.6	0.6			
WG527569LFB	LFB	09/20/21 18:17	II210910-2	99.96008		98.33	mg/L	98	85	115			
L68500-03AS	AS	09/20/21 19:34	II210910-2	99.96008	.38	100.9	mg/L	101	85	115			
L68500-03ASD	ASD	09/20/21 19:37	II210910-2	99.96008	.38	101.2	mg/L	101	85	115	0	20	

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527587													
WG527587PBW	PBW	09/20/21 13:20				U	mg/L		-20	20			
WG527587LCSW	LCSW	09/20/21 13:22	PCN64119	1000		972	mg/L	97	80	120			
L68496-04DUP	DUP	09/20/21 13:27			5240	5288	mg/L				1	10	

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527607													
WG527607PBW	PBW	09/20/21 16:10				U	mg/L		-5	5			
WG527607LCSW	LCSW	09/20/21 16:12	PCN64134	100		90	mg/L	90	80	120			
L68500-04DUP	DUP	09/20/21 16:36			U	U	mg/L				0	10	RA
L68612-07DUP	DUP	09/20/21 16:59			U	U	mg/L				0	10	RA

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527914													
WG527914ICV	ICV	09/23/21 18:06	MS210727-2	.02		.02032	mg/L	102	90	110			
WG527914ICB	ICB	09/23/21 18:08				U	mg/L		-0.00022	0.00022			
WG527914LFB	LFB	09/23/21 18:10	MS210827-2	.01002		.01045	mg/L	104	85	115			
L68497-02AS	AS	09/23/21 18:41	MS210827-2	.01002	U	.00974	mg/L	97	70	130			
L68497-02ASD	ASD	09/23/21 18:43	MS210827-2	.01002	U	.00962	mg/L	96	70	130	1	20	

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527569													
WG527569ICV	ICV	09/20/21 17:59	II210916-1	100		99.43	mg/L	99	95	105			
WG527569ICB	ICB	09/20/21 18:05				.26	mg/L		-0.6	0.6			
WG527569LFB	LFB	09/20/21 18:17	II210910-2	100.007		99.55	mg/L	100	85	115			
L68500-03AS	AS	09/20/21 19:34	II210910-2	100.007	2.13	103.6	mg/L	101	85	115			
L68500-03ASD	ASD	09/20/21 19:37	II210910-2	100.007	2.13	103.7	mg/L	102	85	115	0	20	

Ouray Silver Mines

ACZ Project ID: **L68500**

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.

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527964													
WG527964ICB	ICB	09/24/21 10:22				U	mg/L		-3	3			
WG527964ICV	ICV	09/24/21 10:22	WI210923-1	20.46		19.2	mg/L	94	90	110			
WG527964LFB	LFB	09/24/21 14:01	WI210105-3	10		9.8	mg/L	98	90	110			
L68500-02AS	AS	09/24/21 14:14	SO4TURB5X	10	53.2	61.1	mg/L	79	90	110			M3
L68500-03DUP	DUP	09/24/21 14:15			52.1	53.4	mg/L				2	20	
WG527966													
WG527966ICB	ICB	09/24/21 10:22				U	mg/L		-3	3			
WG527966ICV	ICV	09/24/21 10:22	WI210923-1	20.46		19.2	mg/L	94	90	110			
WG527966LFB	LFB	09/24/21 15:07	WI210105-3	10		9.9	mg/L	99	90	110			
L68500-04DUP	DUP	09/24/21 15:28			52.7	54.5	mg/L				3	20	
L68500-05AS	AS	09/24/21 15:28	SO4TURB5X	10	47	55.1	mg/L	81	90	110			M3

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527569													
WG527569ICV	ICV	09/20/21 17:59	II210916-1	2		1.914	mg/L	96	95	105			
WG527569ICB	ICB	09/20/21 18:05				U	mg/L		-0.06	0.06			
WG527569LFB	LFB	09/20/21 18:17	II210910-2	.50045		.508	mg/L	102	85	115			
L68500-03AS	AS	09/20/21 19:34	II210910-2	.50045	U	.538	mg/L	108	85	115			
L68500-03ASD	ASD	09/20/21 19:37	II210910-2	.50045	U	.536	mg/L	107	85	115	0	20	

Ouray Silver Mines

ACZ Project ID: **L68500**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68500-01	WG527444	Carbon, dissolved organic (DOC)	SM5310B	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).
	WG527908	Chloride	SM4500CI-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).
	WG527652	Fluoride	SM4500F-C	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG527587	Residue, Filterable (TDS) @180C	SM2540C	Z3	Sample volume yielded a residue less than 2.5 mg
	WG527607	Residue, Non-Filterable (TSS) @105C	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).
	WG527964	Sulfate	SM2540D D516-02/-07/-11 - TURBIDIMETRIC	Z3	Sample volume yielded a residue less than 2.5 mg
L68500-02	WG527444	Carbon, dissolved organic (DOC)	SM5310B	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.
	WG527908	Chloride	SM4500CI-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).
			SM4500CI-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500CI-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).
	WG527607	Residue, Non-Filterable (TSS) @105C	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
L68500-03	WG527964	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.
	WG527444	Carbon, dissolved organic (DOC)	SM5310B	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).
	WG527908	Chloride	SM4500CI-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500CI-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).
	WG527607	Residue, Non-Filterable (TSS) @105C	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
	WG527964	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.

Ouray Silver Mines

ACZ Project ID: **L68500**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68500-04	WG527444	Carbon, dissolved organic (DOC)	SM5310B	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).
	WG527908	Chloride	SM4500CI-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500CI-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).
	WG527607	Residue, Non-Filterable (TSS) @105C	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
WG527966	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.	
L68500-05	WG527444	Carbon, dissolved organic (DOC)	SM5310B	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).
	WG527908	Chloride	SM4500CI-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500CI-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).
	WG527652	Fluoride	SM4500F-C	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG527607	Residue, Non-Filterable (TSS) @105C	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
WG527966	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.	

Ouray Silver Mines

ACZ Project ID: **L68500**

Metals Analysis

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Iron, dissolved	M200.8 ICP-MS
Iron, total recoverable	M200.8 ICP-MS

Ouray Silver Mines

ACZ Project ID: L68500

Date Received: 09/15/2021 09:37

Received By:

Date Printed: 9/16/2021

Receipt Verification

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

Samples/Containers

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

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?
-----	-----	-----	-----	-----
NA35939	5.4	<=6.0	15	Yes

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.

Ouray Silver Mines

ACZ Project ID: L68500

Date Received: 09/15/2021 09:37

Received By:

Date Printed: 9/16/2021

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).



Laboratories, Inc. L68500

CHAIN of CUSTODY

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

Report to:

Name: Briana Greer
Company: Solid Solution Geosciences LLC
E-mail: briana@solidsolutiongeosciences.com.com

Address: 112 Village Square W Suite 205.
Ridgway CO, 81432
Telephone: 307-760-8838

Copy of Report to:

Name: Environmental
Company: Ouray Silver Mines Inc.

E-mail: environmental@ouraysilvermines.com
Telephone: 970-325-9830

Invoice to:

Name: Ashlee Briggs
Company: Ouray Silver Mines Inc.
E-mail: abriggs@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 ☒
NO ☐

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 ☒

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

Sampler's Name: Joshua A. Moore Sampler's Site Information State CO Zip code 81427 Time Zone Mtn

*Sampler's Signature: Joshua Moore

*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

ANALYSES REQUESTED (attach list or use quote number)

Quote #: <u>SW</u>	PO#:	Reporting state for compliance testing: <u>CO</u>	Check box if samples include NRC licensed material? ☐	SAMPLE IDENTIFICATION	DATE: TIME	Matrix	# of Containers	SW									
SW-0					9/14/21 09:05-09:17	SW	7	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐
SW-99					9/14/21 10:19-10:34	SW	7	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐
SW-2					9/14/21 11:00-11:22	SW	7	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐
SW-15					9/14/21 10:00-10:14	SW	7	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐
SW-17					9/14/21 11:50-12:05	SW	7	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐
Hg Trip Blank					9/14/21 09:44	SW	1	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐
						SW		☒	☐	☐	☐	☐	☐	☐	☐	☐	☐
						SW		☒	☐	☐	☐	☐	☐	☐	☐	☐	☐
						SW		☒	☐	☐	☐	☐	☐	☐	☐	☐	☐
						SW		☒	☐	☐	☐	☐	☐	☐	☐	☐	☐

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

REMARKS

SW-2 and SW-99 vials of HCl had discolored labels, possible sweating of HCl from vials. JAM

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

RELINQUISHED BY:

DATE: TIME

RECEIVED BY:

DATE: TIME

Joshua Moore

9/14/21 13:45

Denise

9/15/21 9:37

October 01, 2021

Report to:
Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Environmental, Accounts Payable

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

Project ID:
ACZ Project ID: L68530

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on September 16, 2021. This project has been assigned to ACZ's project number, L68530. 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 L68530. 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 31, 2021. 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.



Sue Webber has reviewed and
approved this report.



Ouray Silver Mines

Project ID:

Sample ID: GW-0

ACZ Sample ID: **L68530-01**

Date Sampled: 09/15/21 15:04

Date Received: 09/16/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						09/28/21 9:55	mjj1
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								09/22/21 13:41	bls

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	09/22/21 2:36	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	09/28/21 20:44	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	09/28/21 20:44	bsu
Barium, dissolved	M200.7 ICP	1	<0.007	U		mg/L	0.007	0.035	09/22/21 2:36	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	09/28/21 20:44	bsu
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	09/22/21 2:36	kja
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	09/28/21 20:44	bsu
Calcium, dissolved	M200.7 ICP	1	<0.1	U		mg/L	0.1	0.5	09/22/21 2:36	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	09/28/21 20:44	bsu
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/28/21 20:44	bsu
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	09/22/21 2:36	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/28/21 20:44	bsu
Magnesium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	09/22/21 2:36	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	09/22/21 2:36	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/20/21 12:22	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.0005	09/28/21 20:44	bsu
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	09/22/21 2:36	kja
Potassium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	09/22/21 2:36	kja
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	09/28/21 20:44	bsu
Silica, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	09/22/21 2:36	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/28/21 20:44	bsu
Sodium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	09/22/21 2:36	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/28/21 20:44	bsu
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/28/21 20:44	bsu
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	09/22/21 2:36	kja
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	09/22/21 2:36	kja

Ouray Silver Mines

Project ID:

Sample ID: GW-0

ACZ Sample ID: **L68530-01**

Date Sampled: 09/15/21 15:04

Date Received: 09/16/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	09/24/21 0:00	emk
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	09/24/21 0:00	emk
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	09/24/21 0:00	emk
Total Alkalinity		1	<2	U	*	mg/L	2	20	09/24/21 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			n/a			%			10/01/21 0:00	calc
Sum of Anions			0.178	B		meq/L			10/01/21 0:00	calc
Sum of Cations			<	U		meq/L			10/01/21 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	09/24/21 13:31	md
Conductivity @25C	SM2510B	1	<1	U	*	umhos/cm	1	10	09/24/21 5:16	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	09/29/21 15:28	syw
Fluoride	SM4500F-C	1	<0.15	U	*	mg/L	0.15	0.35	09/28/21 15:58	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		<0.2	U		mg/L	0.2	5	10/01/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U	*	mg/L	0.02	0.1	09/25/21 0:29	pjb
pH (lab)	SM4500H+ B									
pH		1	5.9	H	*	units	0.1	0.1	09/24/21 0:00	emk
pH measured at		1	22.5		*	C	0.1	0.1	09/24/21 0:00	emk
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.014	B	*	mg/L	0.01	0.05	09/24/21 21:45	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	<20	U	*	mg/L	20	40	09/21/21 15:13	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	09/22/21 10:33	scd
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	8.5		*	mg/L	1	5	09/28/21 10:12	wtc
TDS (calculated)	Calculation		8.5			mg/L			10/01/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		n/a						10/01/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: GW-99

ACZ Sample ID: **L68530-02**

Date Sampled: 09/15/21 14:03

Date Received: 09/16/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						09/28/21 10:06	mjj1
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								09/22/21 13:50	bls

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	09/22/21 2:39	kja
Antimony, dissolved	M200.8 ICP-MS	1	0.00073	B		mg/L	0.0004	0.002	09/28/21 20:46	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00023	B		mg/L	0.0002	0.001	09/28/21 20:46	bsu
Barium, dissolved	M200.7 ICP	1	0.0512			mg/L	0.007	0.035	09/22/21 2:39	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	09/28/21 20:46	bsu
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	09/22/21 2:39	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000192	B		mg/L	0.00005	0.00025	09/28/21 20:46	bsu
Calcium, dissolved	M200.7 ICP	1	25.6			mg/L	0.1	0.5	09/22/21 2:39	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	09/28/21 20:46	bsu
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/28/21 20:46	bsu
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	09/22/21 2:39	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/28/21 20:46	bsu
Magnesium, dissolved	M200.7 ICP	1	2.08			mg/L	0.2	1	09/22/21 2:39	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	09/22/21 2:39	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/20/21 12:23	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00080			mg/L	0.0002	0.0005	09/28/21 20:46	bsu
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	09/22/21 2:39	kja
Potassium, dissolved	M200.7 ICP	1	0.48	B		mg/L	0.2	1	09/22/21 2:39	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00020	B		mg/L	0.0001	0.00025	09/28/21 20:46	bsu
Silica, dissolved	M200.7 ICP	1	5.6			mg/L	0.2	1	09/22/21 2:39	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/28/21 20:46	bsu
Sodium, dissolved	M200.7 ICP	1	1.98			mg/L	0.2	1	09/22/21 2:39	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/28/21 20:46	bsu
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/28/21 20:46	bsu
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	09/22/21 2:39	kja
Zinc, dissolved	M200.7 ICP	1	0.249			mg/L	0.02	0.05	09/22/21 2:39	kja

Ouray Silver Mines

Project ID:

Sample ID: GW-99

ACZ Sample ID: **L68530-02**

Date Sampled: 09/15/21 14:03

Date Received: 09/16/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	26.9		*	mg/L	2	20	09/24/21 0:00	emk
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	09/24/21 0:00	emk
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	09/24/21 0:00	emk
Total Alkalinity		1	26.9		*	mg/L	2	20	09/24/21 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			3.2			%			10/01/21 0:00	calc
Sum of Anions			1.5			meq/L			10/01/21 0:00	calc
Sum of Cations			1.6			meq/L			10/01/21 0:00	calc
Chloride	SM4500Cl-E	1	0.67	B	*	mg/L	0.5	2	09/24/21 13:32	md
Conductivity @25C	SM2510B	1	178		*	umhos/cm	1	10	09/24/21 5:25	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	09/29/21 15:28	syw
Fluoride	SM4500F-C	1	0.23	B	*	mg/L	0.15	0.35	09/28/21 16:09	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		73			mg/L	0.2	5	10/01/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.179		*	mg/L	0.02	0.1	09/25/21 0:30	pjb
pH (lab)	SM4500H+ B									
pH		1	7.7	H	*	units	0.1	0.1	09/24/21 0:00	emk
pH measured at		1	22.5		*	C	0.1	0.1	09/24/21 0:00	emk
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	09/24/21 21:46	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	114		*	mg/L	20	40	09/21/21 15:15	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	09/22/21 10:35	scd
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	46.4		*	mg/L	5	25	09/28/21 10:39	wtc
TDS (calculated)	Calculation		101			mg/L			10/01/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.13						10/01/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: GW-2A

ACZ Sample ID: **L68530-03**

Date Sampled: 09/15/21 14:42

Date Received: 09/16/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						09/28/21 10:16	mjj1
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								09/22/21 14:08	bls

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	09/22/21 2:43	kja
Antimony, dissolved	M200.8 ICP-MS	1	0.00094	B		mg/L	0.0004	0.002	09/28/21 20:55	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00025	B		mg/L	0.0002	0.001	09/28/21 20:55	bsu
Barium, dissolved	M200.7 ICP	1	0.0479			mg/L	0.007	0.035	09/22/21 2:43	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	09/28/21 20:55	bsu
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	09/22/21 2:43	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000527			mg/L	0.00005	0.00025	09/28/21 20:55	bsu
Calcium, dissolved	M200.7 ICP	1	26.9			mg/L	0.1	0.5	09/22/21 2:43	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	09/28/21 20:55	bsu
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/28/21 20:55	bsu
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	09/22/21 2:43	kja
Lead, dissolved	M200.8 ICP-MS	1	0.00013	B		mg/L	0.0001	0.0005	09/28/21 20:55	bsu
Magnesium, dissolved	M200.7 ICP	1	2.10			mg/L	0.2	1	09/22/21 2:43	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	09/22/21 2:43	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/20/21 12:24	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00096			mg/L	0.0002	0.0005	09/28/21 20:55	bsu
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	09/22/21 2:43	kja
Potassium, dissolved	M200.7 ICP	1	0.46	B		mg/L	0.2	1	09/22/21 2:43	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00022	B		mg/L	0.0001	0.00025	09/28/21 20:55	bsu
Silica, dissolved	M200.7 ICP	1	5.5			mg/L	0.2	1	09/22/21 2:43	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/28/21 20:55	bsu
Sodium, dissolved	M200.7 ICP	1	2.07			mg/L	0.2	1	09/22/21 2:43	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/28/21 20:55	bsu
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/28/21 20:55	bsu
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	09/22/21 2:43	kja
Zinc, dissolved	M200.7 ICP	1	0.451			mg/L	0.02	0.05	09/22/21 2:43	kja

Ouray Silver Mines

Project ID:

Sample ID: GW-2A

ACZ Sample ID: **L68530-03**

Date Sampled: 09/15/21 14:42

Date Received: 09/16/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	26.0		*	mg/L	2	20	09/24/21 0:00	emk
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	09/24/21 0:00	emk
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	09/24/21 0:00	emk
Total Alkalinity		1	26.0		*	mg/L	2	20	09/24/21 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-3.0			%			10/01/21 0:00	calc
Sum of Anions			1.7			meq/L			10/01/21 0:00	calc
Sum of Cations			1.6			meq/L			10/01/21 0:00	calc
Chloride	SM4500Cl-E	1	0.73	B	*	mg/L	0.5	2	09/24/21 13:33	md
Conductivity @25C	SM2510B	1	184		*	umhos/cm	1	10	09/24/21 5:34	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	09/29/21 15:29	syw
Fluoride	SM4500F-C	1	0.24	B	*	mg/L	0.15	0.35	09/28/21 16:17	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		76			mg/L	0.2	5	10/01/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.272		*	mg/L	0.02	0.1	09/25/21 0:33	pjb
pH (lab)	SM4500H+ B									
pH		1	7.7	H	*	units	0.1	0.1	09/24/21 0:00	emk
pH measured at		1	22.4		*	C	0.1	0.1	09/24/21 0:00	emk
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	09/24/21 21:49	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	112		*	mg/L	20	40	09/21/21 15:18	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	09/22/21 10:37	scd
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	52.4		*	mg/L	5	25	09/28/21 10:39	wtc
TDS (calculated)	Calculation		108			mg/L			10/01/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.04						10/01/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: GW-2B

ACZ Sample ID: **L68530-04**

Date Sampled: 09/15/21 13:16

Date Received: 09/16/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						09/28/21 10:36	mjj1
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								09/22/21 14:26	bls

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	09/22/21 2:46	kja
Antimony, dissolved	M200.8 ICP-MS	1	0.00076	B		mg/L	0.0004	0.002	09/28/21 20:57	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00022	B		mg/L	0.0002	0.001	09/28/21 20:57	bsu
Barium, dissolved	M200.7 ICP	1	0.0534			mg/L	0.007	0.035	09/22/21 2:46	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	09/28/21 20:57	bsu
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	09/22/21 2:46	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000187	B		mg/L	0.00005	0.00025	09/28/21 20:57	bsu
Calcium, dissolved	M200.7 ICP	1	26.6			mg/L	0.1	0.5	09/22/21 2:46	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	09/28/21 20:57	bsu
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/28/21 20:57	bsu
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	09/22/21 2:46	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/28/21 20:57	bsu
Magnesium, dissolved	M200.7 ICP	1	2.17			mg/L	0.2	1	09/22/21 2:46	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	09/22/21 2:46	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/20/21 12:25	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00078			mg/L	0.0002	0.0005	09/28/21 20:57	bsu
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	09/22/21 2:46	kja
Potassium, dissolved	M200.7 ICP	1	0.50	B		mg/L	0.2	1	09/22/21 2:46	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00021	B		mg/L	0.0001	0.00025	09/28/21 20:57	bsu
Silica, dissolved	M200.7 ICP	1	5.9			mg/L	0.2	1	09/22/21 2:46	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/28/21 20:57	bsu
Sodium, dissolved	M200.7 ICP	1	1.99			mg/L	0.2	1	09/22/21 2:46	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/28/21 20:57	bsu
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/28/21 20:57	bsu
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	09/22/21 2:46	kja
Zinc, dissolved	M200.7 ICP	1	0.259			mg/L	0.02	0.05	09/22/21 2:46	kja

Ouray Silver Mines

Project ID:

Sample ID: GW-2B

ACZ Sample ID: **L68530-04**

Date Sampled: 09/15/21 13:16

Date Received: 09/16/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	28.0		*	mg/L	2	20	09/24/21 0:00	emk
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	09/24/21 0:00	emk
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	09/24/21 0:00	emk
Total Alkalinity		1	28.0		*	mg/L	2	20	09/24/21 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			10/01/21 0:00	calc
Sum of Anions			1.6			meq/L			10/01/21 0:00	calc
Sum of Cations			1.6			meq/L			10/01/21 0:00	calc
Chloride	SM4500Cl-E	1	0.61	B	*	mg/L	0.5	2	09/24/21 13:34	md
Conductivity @25C	SM2510B	1	180		*	umhos/cm	1	10	09/24/21 5:42	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	09/29/21 15:31	syw
Fluoride	SM4500F-C	1	0.22	B	*	mg/L	0.15	0.35	09/28/21 16:21	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		75			mg/L	0.2	5	10/01/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.173		*	mg/L	0.02	0.1	09/25/21 0:36	pjb
pH (lab)	SM4500H+ B									
pH		1	7.8	H	*	units	0.1	0.1	09/24/21 0:00	emk
pH measured at		1	22.4		*	C	0.1	0.1	09/24/21 0:00	emk
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	09/24/21 21:51	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	112		*	mg/L	20	40	09/21/21 17:10	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	09/22/21 10:39	scd
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	49.0		*	mg/L	5	25	09/28/21 10:39	wtc
TDS (calculated)	Calculation		106			mg/L			10/01/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.06						10/01/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: GW-3R

ACZ Sample ID: **L68530-05**

Date Sampled: 09/15/21 12:08

Date Received: 09/16/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						09/28/21 10:46	mjj1
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								09/22/21 14:35	bls

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	09/22/21 2:49	kja
Antimony, dissolved	M200.8 ICP-MS	1	0.00108	B		mg/L	0.0004	0.002	09/28/21 20:58	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00052	B		mg/L	0.0002	0.001	09/28/21 20:58	bsu
Barium, dissolved	M200.7 ICP	1	0.0357			mg/L	0.007	0.035	09/22/21 2:49	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	09/28/21 20:58	bsu
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	09/22/21 2:49	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000268			mg/L	0.00005	0.00025	09/28/21 20:58	bsu
Calcium, dissolved	M200.7 ICP	1	33.8			mg/L	0.1	0.5	09/22/21 2:49	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	09/28/21 20:58	bsu
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/28/21 20:58	bsu
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	09/22/21 2:49	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/28/21 20:58	bsu
Magnesium, dissolved	M200.7 ICP	1	1.92			mg/L	0.2	1	09/22/21 2:49	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	09/22/21 2:49	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/20/21 12:26	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00079			mg/L	0.0002	0.0005	09/28/21 20:58	bsu
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	09/22/21 2:49	kja
Potassium, dissolved	M200.7 ICP	1	0.42	B		mg/L	0.2	1	09/22/21 2:49	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00014	B		mg/L	0.0001	0.00025	09/28/21 20:58	bsu
Silica, dissolved	M200.7 ICP	1	5.1			mg/L	0.2	1	09/22/21 2:49	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/28/21 20:58	bsu
Sodium, dissolved	M200.7 ICP	1	2.81			mg/L	0.2	1	09/22/21 2:49	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/28/21 20:58	bsu
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/28/21 20:58	bsu
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	09/22/21 2:49	kja
Zinc, dissolved	M200.7 ICP	1	0.156			mg/L	0.02	0.05	09/22/21 2:49	kja

Ouray Silver Mines

Project ID:

Sample ID: GW-3R

ACZ Sample ID: **L68530-05**

Date Sampled: 09/15/21 12:08

Date Received: 09/16/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	28.0		*	mg/L	2	20	09/24/21 0:00	emk
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	09/24/21 0:00	emk
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	09/24/21 0:00	emk
Total Alkalinity		1	28.0		*	mg/L	2	20	09/24/21 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			10/01/21 0:00	calc
Sum of Anions			2			meq/L			10/01/21 0:00	calc
Sum of Cations			2			meq/L			10/01/21 0:00	calc
Chloride	SM4500Cl-E	1	0.61	B	*	mg/L	0.5	2	09/24/21 13:34	md
Conductivity @25C	SM2510B	1	219		*	umhos/cm	1	10	09/24/21 5:51	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	09/29/21 15:32	syw
Fluoride	SM4500F-C	1	<0.15	U	*	mg/L	0.15	0.35	09/28/21 16:29	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		92			mg/L	0.2	5	10/01/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.289		*	mg/L	0.02	0.1	09/25/21 0:37	pjb
pH (lab)	SM4500H+ B									
pH		1	7.8	H	*	units	0.1	0.1	09/24/21 0:00	emk
pH measured at		1	22.4		*	C	0.1	0.1	09/24/21 0:00	emk
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	09/24/21 21:52	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	138		*	mg/L	20	40	09/21/21 17:12	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	09/22/21 10:41	scd
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	66.6		*	mg/L	5	25	09/28/21 10:39	wtc
TDS (calculated)	Calculation		130			mg/L			10/01/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.06						10/01/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: GW-3B

ACZ Sample ID: **L68530-06**

Date Sampled: 09/15/21 11:04

Date Received: 09/16/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						09/28/21 10:57	mjj1
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								09/22/21 14:44	bls

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	09/22/21 2:53	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	09/28/21 21:00	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	09/28/21 21:00	bsu
Barium, dissolved	M200.7 ICP	1	0.0469			mg/L	0.007	0.035	09/22/21 2:53	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	09/28/21 21:00	bsu
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	09/22/21 2:53	kja
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	09/28/21 21:00	bsu
Calcium, dissolved	M200.7 ICP	1	32.6			mg/L	0.1	0.5	09/22/21 2:53	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	09/28/21 21:00	bsu
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	09/28/21 21:00	bsu
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	09/22/21 2:53	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/28/21 21:00	bsu
Magnesium, dissolved	M200.7 ICP	1	2.50			mg/L	0.2	1	09/22/21 2:53	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	09/22/21 2:53	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U	*	mg/L	0.0002	0.001	09/22/21 15:03	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00033	B		mg/L	0.0002	0.0005	09/28/21 21:00	bsu
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	09/22/21 2:53	kja
Potassium, dissolved	M200.7 ICP	1	0.48	B		mg/L	0.2	1	09/22/21 2:53	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00022	B		mg/L	0.0001	0.00025	09/28/21 21:00	bsu
Silica, dissolved	M200.7 ICP	1	6.3			mg/L	0.2	1	09/22/21 2:53	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/28/21 21:00	bsu
Sodium, dissolved	M200.7 ICP	1	2.13			mg/L	0.2	1	09/22/21 2:53	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/28/21 21:00	bsu
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	09/28/21 21:00	bsu
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	09/22/21 2:53	kja
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	09/22/21 2:53	kja

Ouray Silver Mines

Project ID:

Sample ID: GW-3B

ACZ Sample ID: **L68530-06**

Date Sampled: 09/15/21 11:04

Date Received: 09/16/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	30.3		*	mg/L	2	20	09/24/21 0:00	emk
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	09/24/21 0:00	emk
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	09/24/21 0:00	emk
Total Alkalinity		1	30.3		*	mg/L	2	20	09/24/21 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-2.6			%			10/01/21 0:00	calc
Sum of Anions			2.0			meq/L			10/01/21 0:00	calc
Sum of Cations			1.9			meq/L			10/01/21 0:00	calc
Chloride	SM4500Cl-E	1	0.73	B	*	mg/L	0.5	2	09/24/21 13:35	md
Conductivity @25C	SM2510B	1	216		*	umhos/cm	1	10	09/24/21 6:00	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	09/29/21 15:34	syw
Fluoride	SM4500F-C	1	0.16	B	*	mg/L	0.15	0.35	09/28/21 16:48	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		92			mg/L	0.2	5	10/01/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.199		*	mg/L	0.02	0.1	09/25/21 0:38	pjb
pH (lab)	SM4500H+ B									
pH		1	7.9	H	*	units	0.1	0.1	09/24/21 0:00	emk
pH measured at		1	22.4		*	C	0.1	0.1	09/24/21 0:00	emk
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	09/24/21 21:55	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	136		*	mg/L	20	40	09/21/21 17:15	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	09/22/21 10:43	scd
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	66.0		*	mg/L	5	25	09/28/21 10:41	wtc
TDS (calculated)	Calculation		131			mg/L			10/01/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.04						10/01/21 0:00	calc


Report Header Explanations

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

QC Sample Types

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

Ouray Silver Mines

ACZ Project ID: **L68530**

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
WG527916													
WG527916PBW1	PBW	09/23/21 17:14				U	mg/L		-20	20			
WG527916LCSW3	LCSW	09/23/21 17:33	WC210917-2	820.0001		823.2	mg/L	100	90	110			
WG527916LCSW6	LCSW	09/23/21 21:12	WC210917-2	820.0001		812.1	mg/L	99	90	110			
WG527916PBW2	PBW	09/23/21 21:19				U	mg/L		-20	20			
WG527916LCSW9	LCSW	09/24/21 0:50	WC210917-2	820.0001		813.9	mg/L	99	90	110			
WG527916PBW3	PBW	09/24/21 0:57				U	mg/L		-20	20			
WG527916LCSW12	LCSW	09/24/21 5:02	WC210917-2	820.0001		818.3	mg/L	100	90	110			
WG527916PBW4	PBW	09/24/21 5:09				U	mg/L		-20	20			
L68552-03DUP	DUP	09/24/21 6:39			35.6	35.5	mg/L				0	20	
WG527916LCSW15	LCSW	09/24/21 8:38	WC210917-2	820.0001		821.1	mg/L	100	90	110			

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527677													
WG527677ICV	ICV	09/22/21 1:31	II210916-1	2		2.014	mg/L	101	95	105			
WG527677ICB	ICB	09/22/21 1:38				U	mg/L		-0.15	0.15			
WG527677LFB	LFB	09/22/21 1:51	II210910-2	1.0008		1.049	mg/L	105	85	115			
L68389-01AS	AS	09/22/21 2:17	II210910-2	1.0008	.059	1.101	mg/L	104	85	115			
L68389-01ASD	ASD	09/22/21 2:20	II210910-2	1.0008	.059	1.1	mg/L	104	85	115	0	20	
L68575-01AS	AS	09/22/21 3:09	II210910-2	1.0008	.086	1.119	mg/L	103	85	115			
L68575-01ASD	ASD	09/22/21 3:12	II210910-2	1.0008	.086	1.159	mg/L	107	85	115	4	20	

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528194													
WG528194ICV	ICV	09/28/21 20:11	MS210727-2	.0201		.01936	mg/L	96	90	110			
WG528194ICB	ICB	09/28/21 20:12				U	mg/L		-0.00088	0.00088			
WG528194LFB	LFB	09/28/21 20:14	MS210927-3	.01		.0096	mg/L	96	85	115			
L68530-02AS	AS	09/28/21 20:47	MS210927-3	.01	.00073	.00873	mg/L	80	70	130			
L68530-02ASD	ASD	09/28/21 20:49	MS210927-3	.01	.00073	.00913	mg/L	84	70	130	4	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528194													
WG528194ICV	ICV	09/28/21 20:11	MS210727-2	.05		.05252	mg/L	105	90	110			
WG528194ICB	ICB	09/28/21 20:12				U	mg/L		-0.00044	0.00044			
WG528194LFB	LFB	09/28/21 20:14	MS210927-3	.05005		.05067	mg/L	101	85	115			
L68530-02AS	AS	09/28/21 20:47	MS210927-3	.05005	.00023	.05146	mg/L	102	70	130			
L68530-02ASD	ASD	09/28/21 20:49	MS210927-3	.05005	.00023	.052	mg/L	103	70	130	1	20	

Ouray Silver Mines

ACZ Project ID: **L68530**

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.

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527677													
WG527677ICV	ICV	09/22/21 1:31	II210916-1	2		2.032	mg/L	102	95	105			
WG527677ICB	ICB	09/22/21 1:38				U	mg/L		-0.021	0.021			
WG527677LFB	LFB	09/22/21 1:51	II210910-2	.5		.4473	mg/L	89	85	115			
L68389-01AS	AS	09/22/21 2:17	II210910-2	.5	.0967	.5803	mg/L	97	85	115			
L68389-01ASD	ASD	09/22/21 2:20	II210910-2	.5	.0967	.5823	mg/L	97	85	115	0	20	
L68575-01AS	AS	09/22/21 3:09	II210910-2	.5	.0636	.5473	mg/L	97	85	115			
L68575-01ASD	ASD	09/22/21 3:12	II210910-2	.5	.0636	.5684	mg/L	101	85	115	4	20	

Beryllium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528194													
WG528194ICV	ICV	09/28/21 20:11	MS210727-2	.05		.051663	mg/L	103	90	110			
WG528194ICB	ICB	09/28/21 20:12				.000091	mg/L		-0.000176	0.000176			
WG528194LFB	LFB	09/28/21 20:14	MS210927-3	.05005		.049866	mg/L	100	85	115			
L68530-02AS	AS	09/28/21 20:47	MS210927-3	.05005	U	.049962	mg/L	100	70	130			
L68530-02ASD	ASD	09/28/21 20:49	MS210927-3	.05005	U	.050254	mg/L	100	70	130	1	20	

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527677													
WG527677ICV	ICV	09/22/21 1:31	II210916-1	2		2.027	mg/L	101	95	105			
WG527677ICB	ICB	09/22/21 1:38				U	mg/L		-0.09	0.09			
WG527677LFB	LFB	09/22/21 1:51	II210910-2	.5005		.453	mg/L	91	85	115			
L68389-01AS	AS	09/22/21 2:17	II210910-2	.5005	.043	.549	mg/L	101	85	115			
L68389-01ASD	ASD	09/22/21 2:20	II210910-2	.5005	.043	.545	mg/L	100	85	115	1	20	
L68575-01AS	AS	09/22/21 3:09	II210910-2	.5005	.038	.536	mg/L	100	85	115			
L68575-01ASD	ASD	09/22/21 3:12	II210910-2	.5005	.038	.56	mg/L	104	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
WG528194													
WG528194ICV	ICV	09/28/21 20:11	MS210727-2	.05		.052458	mg/L	105	90	110			
WG528194ICB	ICB	09/28/21 20:12				U	mg/L		-0.00011	0.00011			
WG528194LFB	LFB	09/28/21 20:14	MS210927-3	.05005		.050204	mg/L	100	85	115			
L68530-02AS	AS	09/28/21 20:47	MS210927-3	.05005	.000192	.049513	mg/L	99	70	130			
L68530-02ASD	ASD	09/28/21 20:49	MS210927-3	.05005	.000192	.050097	mg/L	100	70	130	1	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527677													
WG527677ICV	ICV	09/22/21 1:31	II210916-1	100		99.75	mg/L	100	95	105			
WG527677ICB	ICB	09/22/21 1:38				U	mg/L		-0.3	0.3			
WG527677LFB	LFB	09/22/21 1:51	II210910-2	67.98972		69.33	mg/L	102	85	115			
L68389-01AS	AS	09/22/21 2:17	II210910-2	67.98972	37.1	102.6	mg/L	96	85	115			
L68389-01ASD	ASD	09/22/21 2:20	II210910-2	67.98972	37.1	102.7	mg/L	96	85	115	0	20	
L68575-01AS	AS	09/22/21 3:09	II210910-2	67.98972	62.8	126.4	mg/L	94	85	115			
L68575-01ASD	ASD	09/22/21 3:12	II210910-2	67.98972	62.8	130.8	mg/L	100	85	115	3	20	

Ouray Silver Mines

ACZ Project ID: **L68530**

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.

Chloride

SM4500CI-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527930													
WG527930ICV	ICV	09/24/21 13:14	WI210503-1	54.89		56.54	mg/L	103	90	110			
WG527930ICB	ICB	09/24/21 13:15				1.04	mg/L		-1.5	1.5			
WG527930LFB1	LFB	09/24/21 13:15	WI210908-11	29.97		28.79	mg/L	96	90	110			
WG527930LFB2	LFB	09/24/21 13:30	WI210908-11	29.97		30.16	mg/L	101	90	110			
L68530-01AS	AS	09/24/21 13:31	WI210908-11	29.97	U	29.3	mg/L	98	90	110			
L68530-02DUP	DUP	09/24/21 13:32			.67	.53	mg/L				23	20	RA

Chromium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528194													
WG528194ICV	ICV	09/28/21 20:11	MS210727-2	.05		.05268	mg/L	105	90	110			
WG528194ICB	ICB	09/28/21 20:12				U	mg/L		-0.0011	0.0011			
WG528194LFB	LFB	09/28/21 20:14	MS210927-3	.05		.05063	mg/L	101	85	115			
L68530-02AS	AS	09/28/21 20:47	MS210927-3	.05	U	.04985	mg/L	100	70	130			
L68530-02ASD	ASD	09/28/21 20:49	MS210927-3	.05	U	.05045	mg/L	101	70	130	1	20	

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527916													
WG527916LCSW2	LCSW	09/23/21 17:21	PCN63140	1408		1446	umhos/cm	103	90	110			
WG527916LCSW5	LCSW	09/23/21 20:59	PCN63140	1408		1431	umhos/cm	102	90	110			
WG527916LCSW8	LCSW	09/24/21 0:37	PCN63140	1408		1421	umhos/cm	101	90	110			
WG527916LCSW11	LCSW	09/24/21 4:49	PCN63140	1408		1424	umhos/cm	101	90	110			
L68552-03DUP	DUP	09/24/21 6:39			993	994	umhos/cm				0	20	
WG527916LCSW14	LCSW	09/24/21 8:25	PCN63140	1408		1413	umhos/cm	100	90	110			

Copper, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528194													
WG528194ICV	ICV	09/28/21 20:11	MS210727-2	.05		.05343	mg/L	107	90	110			
WG528194ICB	ICB	09/28/21 20:12				U	mg/L		-0.00176	0.00176			
WG528194LFB	LFB	09/28/21 20:14	MS210927-3	.05		.05076	mg/L	102	85	115			
L68530-02AS	AS	09/28/21 20:47	MS210927-3	.05	U	.04985	mg/L	100	70	130			
L68530-02ASD	ASD	09/28/21 20:49	MS210927-3	.05	U	.05062	mg/L	101	70	130	2	20	

Cyanide, total

M335.4 - Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528320													
WG528320ICV	ICV	09/29/21 15:22	WI210928-8	.3		.3075	mg/L	103	90	110			
WG528320ICB	ICB	09/29/21 15:23				U	mg/L		-0.003	0.003			
WG528041LRB	LRB	09/29/21 15:24				U	mg/L		-0.003	0.003			
L68510-01DUP	DUP	09/29/21 15:27			U	U	mg/L				0	20	RA
L68530-03LFM	LFM	09/29/21 15:30	WI210927-2	.2	U	.1705	mg/L	85	90	110			M2
WG528041LFB	LFB	09/29/21 15:44	WI210927-2	.2		.1863	mg/L	93	90	110			

Ouray Silver Mines

ACZ Project ID: **L68530**

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.

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528163													
WG528163ICV	ICV	09/28/21 14:03	WC210920-1	2.002		2.1	mg/L	105	90	110			
WG528163ICB	ICB	09/28/21 14:12				U	mg/L		-0.3	0.3			
WG528163LFB1	LFB	09/28/21 14:19	WC210803-9	5.02		5.09	mg/L	101	90	110			
L68530-01AS	AS	09/28/21 16:02	WC210803-9	5.02	U	5.05	mg/L	101	90	110			
L68530-01ASD	ASD	09/28/21 16:05	WC210803-9	5.02	U	5.02	mg/L	100	90	110	1	20	
L68530-06AS	AS	09/28/21 16:56	WC210803-9	5.02	.16	4.93	mg/L	95	90	110			
L68530-06ASD	ASD	09/28/21 17:00	WC210803-9	5.02	.16	4.89	mg/L	94	90	110	1	20	
WG528163LFB2	LFB	09/28/21 18:00	WC210803-9	5.02		4.95	mg/L	99	90	110			

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527677													
WG527677ICV	ICV	09/22/21 1:31	II210916-1	2		2.007	mg/L	100	95	105			
WG527677ICB	ICB	09/22/21 1:38				U	mg/L		-0.18	0.18			
WG527677LFB	LFB	09/22/21 1:51	II210910-2	1.0001		.91	mg/L	91	85	115			
L68389-01AS	AS	09/22/21 2:17	II210910-2	1.0001	.069	1.067	mg/L	100	85	115			
L68389-01ASD	ASD	09/22/21 2:20	II210910-2	1.0001	.069	1.062	mg/L	99	85	115	0	20	
L68575-01AS	AS	09/22/21 3:09	II210910-2	1.0001	.089	1.085	mg/L	100	85	115			
L68575-01ASD	ASD	09/22/21 3:12	II210910-2	1.0001	.089	1.125	mg/L	104	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
WG528194													
WG528194ICV	ICV	09/28/21 20:11	MS210727-2	.05		.05212	mg/L	104	90	110			
WG528194ICB	ICB	09/28/21 20:12				U	mg/L		-0.00022	0.00022			
WG528194LFB	LFB	09/28/21 20:14	MS210927-3	.05005		.05063	mg/L	101	85	115			
L68530-02AS	AS	09/28/21 20:47	MS210927-3	.05005	U	.05071	mg/L	101	70	130			
L68530-02ASD	ASD	09/28/21 20:49	MS210927-3	.05005	U	.05098	mg/L	102	70	130	1	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527677													
WG527677ICV	ICV	09/22/21 1:31	II210916-1	100		97.74	mg/L	98	95	105			
WG527677ICB	ICB	09/22/21 1:38				U	mg/L		-0.6	0.6			
WG527677LFB	LFB	09/22/21 1:51	II210910-2	49.99828		49.15	mg/L	98	85	115			
L68389-01AS	AS	09/22/21 2:17	II210910-2	49.99828	7.51	55.46	mg/L	96	85	115			
L68389-01ASD	ASD	09/22/21 2:20	II210910-2	49.99828	7.51	55.52	mg/L	96	85	115	0	20	
L68575-01AS	AS	09/22/21 3:09	II210910-2	49.99828	14.7	61.76	mg/L	94	85	115			
L68575-01ASD	ASD	09/22/21 3:12	II210910-2	49.99828	14.7	64.02	mg/L	99	85	115	4	20	

Ouray Silver Mines

ACZ Project ID: **L68530**

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.

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527677													
WG527677ICV	ICV	09/22/21 1:31	II210916-1	2		1.979	mg/L	99	95	105			
WG527677ICB	ICB	09/22/21 1:38				U	mg/L		-0.03	0.03			
WG527677LFB	LFB	09/22/21 1:51	II210910-2	.5005		.453	mg/L	91	85	115			
L68389-01AS	AS	09/22/21 2:17	II210910-2	.5005	.315	.784	mg/L	94	85	115			
L68389-01ASD	ASD	09/22/21 2:20	II210910-2	.5005	.315	.782	mg/L	93	85	115	0	20	
L68575-01AS	AS	09/22/21 3:09	II210910-2	.5005	U	.494	mg/L	99	85	115			
L68575-01ASD	ASD	09/22/21 3:12	II210910-2	.5005	U	.512	mg/L	102	85	115	4	20	

Mercury, dissolved

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527527													
WG527527ICV	ICV	09/20/21 11:56	HG210913-3	.00501		.00506	mg/L	101	95	105			
WG527527ICB	ICB	09/20/21 11:57				U	mg/L		-0.0002	0.0002			
WG527527LRB	LRB	09/20/21 11:59				U	mg/L		-0.00044	0.00044			
WG527527LFB	LFB	09/20/21 12:00	HG210913-6	.002002		.00191	mg/L	95	85	115			
L68527-03LFM	LFM	09/20/21 12:15	HG210913-6	.002002	U	.00177	mg/L	88	85	115			
L68527-03LFMD	LFMD	09/20/21 12:16	HG210913-6	.002002	U	.00174	mg/L	87	85	115	2	20	
WG527686													
WG527686ICV	ICV	09/22/21 13:18	HG210913-3	.00501		.00509	mg/L	102	95	105			
WG527686ICB	ICB	09/22/21 13:19				U	mg/L		-0.0002	0.0002			
WG527684													
WG527684LRB	LRB	09/22/21 14:36				U	mg/L		-0.00044	0.00044			
WG527684LFB	LFB	09/22/21 14:37	HG210913-6	.002002		.0018	mg/L	90	85	115			
L68523-05LFM	LFM	09/22/21 15:00	HG210913-6	.002002	U	.00162	mg/L	81	85	115			MA
L68523-05LFMD	LFMD	09/22/21 15:01	HG210913-6	.002002	U	.00192	mg/L	96	85	115	17	20	

Molybdenum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528194													
WG528194ICV	ICV	09/28/21 20:11	MS210727-2	.01992		.02107	mg/L	106	90	110			
WG528194ICB	ICB	09/28/21 20:12				U	mg/L		-0.00044	0.00044			
WG528194LFB	LFB	09/28/21 20:14	MS210927-3	.05005		.05092	mg/L	102	85	115			
L68530-02AS	AS	09/28/21 20:47	MS210927-3	.05005	.0008	.04988	mg/L	98	70	130			
L68530-02ASD	ASD	09/28/21 20:49	MS210927-3	.05005	.0008	.05077	mg/L	100	70	130	2	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527677													
WG527677ICV	ICV	09/22/21 1:31	II210916-1	2		2.0035	mg/L	100	95	105			
WG527677ICB	ICB	09/22/21 1:38				U	mg/L		-0.024	0.024			
WG527677LFB	LFB	09/22/21 1:51	II210910-2	.5		.4437	mg/L	89	85	115			
L68389-01AS	AS	09/22/21 2:17	II210910-2	.5	U	.4913	mg/L	98	85	115			
L68389-01ASD	ASD	09/22/21 2:20	II210910-2	.5	U	.4894	mg/L	98	85	115	0	20	
L68575-01AS	AS	09/22/21 3:09	II210910-2	.5	U	.48	mg/L	96	85	115			
L68575-01ASD	ASD	09/22/21 3:12	II210910-2	.5	U	.5062	mg/L	101	85	115	5	20	

Ouray Silver Mines

ACZ Project ID: **L68530**

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.

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527991													
WG527991ICV	ICV	09/24/21 23:07	WI210904-1	2.4161		2.365	mg/L	98	90	110			
WG527991ICB	ICB	09/24/21 23:08				U	mg/L		-0.02	0.02			
WG527994													
WG527994LFB	LFB	09/25/21 0:10	WI210331-13	2		1.924	mg/L	96	90	110			
L68321-01AS	AS	09/25/21 0:12	WI210331-13	2	U	2.083	mg/L	104	90	110			
L68389-01DUP	DUP	09/25/21 0:15			U	U	mg/L				0	20	RA
L68530-02AS	AS	09/25/21 0:32	WI210331-13	2	.179	2.125	mg/L	97	90	110			
L68530-03DUP	DUP	09/25/21 0:34			.272	.274	mg/L				1	20	

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527916													
WG527916LCSW1	LCSW	09/23/21 17:19	PCN62948	6		6.1	units	102	5.9	6.1			
WG527916LCSW4	LCSW	09/23/21 20:58	PCN62948	6		6.1	units	102	5.9	6.1			
WG527916LCSW7	LCSW	09/24/21 0:35	PCN62948	6		6.1	units	102	5.9	6.1			
WG527916LCSW10	LCSW	09/24/21 4:47	PCN62948	6		6.1	units	102	5.9	6.1			
L68552-03DUP	DUP	09/24/21 6:39			7.9	7.9	units				0	20	
WG527916LCSW13	LCSW	09/24/21 8:23	PCN62948	6		6.1	units	102	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
WG527989													
WG527989ICV	ICV	09/24/21 21:25	WI210831-4	.6523		.687	mg/L	105	90	110			
WG527989ICB	ICB	09/24/21 21:27				U	mg/L		-0.01	0.01			
WG527724LRB	LRB	09/24/21 21:28				U	mg/L		-0.01	0.01			
WG527724LFB	LFB	09/24/21 21:29	WI210921-12	.5		.499	mg/L	100	90	110			
L68514-04LFM	LFM	09/24/21 21:32	WI210921-12	.5	.025	.507	mg/L	96	90	110			
L68514-05DUP	DUP	09/24/21 21:34			.027	.028	mg/L				4	20	RA
L68530-02LFM	LFM	09/24/21 21:47	WI210921-12	.5	U	.493	mg/L	99	90	110			
L68530-03DUP	DUP	09/24/21 21:50			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
WG527677													
WG527677ICV	ICV	09/22/21 1:31	II210916-1	20		20.09	mg/L	100	95	105			
WG527677ICB	ICB	09/22/21 1:38				U	mg/L		-0.6	0.6			
WG527677LFB	LFB	09/22/21 1:51	II210910-2	99.96008		101.4	mg/L	101	85	115			
L68389-01AS	AS	09/22/21 2:17	II210910-2	99.96008	7.82	107.4	mg/L	100	85	115			
L68389-01ASD	ASD	09/22/21 2:20	II210910-2	99.96008	7.82	107.5	mg/L	100	85	115	0	20	
L68575-01AS	AS	09/22/21 3:09	II210910-2	99.96008	3.48	103.4	mg/L	100	85	115			
L68575-01ASD	ASD	09/22/21 3:12	II210910-2	99.96008	3.48	106.8	mg/L	103	85	115	3	20	

Ouray Silver Mines

ACZ Project ID: **L68530**

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.

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527695													
WG527695PBW	PBW	09/21/21 15:00				U	mg/L		-20	20			
WG527695LCSW	LCSW	09/21/21 15:02	PCN64134	1000		996	mg/L	100	80	120			
L68633-04DUP	DUP	09/21/21 15:31			220	208	mg/L				6	10	
WG527713													
WG527713PBW	PBW	09/21/21 17:05				U	mg/L		-20	20			
WG527713LCSW	LCSW	09/21/21 17:07	PCN64134	1000		994	mg/L	99	80	120			
L68541-02DUP	DUP	09/21/21 17:36			1340	1336	mg/L				0	10	

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527762													
WG527762PBW	PBW	09/22/21 10:30				U	mg/L		-2	2			
WG527762LCSW	LCSW	09/22/21 10:31	PCN64134	100		87	mg/L	87	80	120			
L68577-01DUP	DUP	09/22/21 10:53			U	U	mg/L				0	10	RA

Selenium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528194													
WG528194ICV	ICV	09/28/21 20:11	MS210727-2	.05		.05166	mg/L	103	90	110			
WG528194ICB	ICB	09/28/21 20:12				U	mg/L		-0.00022	0.00022			
WG528194LFB	LFB	09/28/21 20:14	MS210927-3	.05		.0491	mg/L	98	85	115			
L68530-02AS	AS	09/28/21 20:47	MS210927-3	.05	.0002	.05114	mg/L	102	70	130			
L68530-02ASD	ASD	09/28/21 20:49	MS210927-3	.05	.0002	.05183	mg/L	103	70	130	1	20	

Silica, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527677													
WG527677ICV	ICV	09/22/21 1:31	II210916-1	42.8		44.2	mg/L	103	95	105			
WG527677ICB	ICB	09/22/21 1:38				U	mg/L		-0.6	0.6			
WG527677LFB	LFB	09/22/21 1:51	II210910-2	21.404		19.97	mg/L	93	85	115			
L68389-01AS	AS	09/22/21 2:17	II210910-2	21.404	10.4	32.17	mg/L	102	85	115			
L68389-01ASD	ASD	09/22/21 2:20	II210910-2	21.404	10.4	32.04	mg/L	101	85	115	0	20	
L68575-01AS	AS	09/22/21 3:09	II210910-2	21.404	7.5	29.17	mg/L	101	85	115			
L68575-01ASD	ASD	09/22/21 3:12	II210910-2	21.404	7.5	30.29	mg/L	106	85	115	4	20	

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528194													
WG528194ICV	ICV	09/28/21 20:11	MS210727-2	.02		.02146	mg/L	107	90	110			
WG528194ICB	ICB	09/28/21 20:12				U	mg/L		-0.00022	0.00022			
WG528194LFB	LFB	09/28/21 20:14	MS210927-3	.01		.01034	mg/L	103	85	115			
L68530-02AS	AS	09/28/21 20:47	MS210927-3	.01	U	.00961	mg/L	96	70	130			
L68530-02ASD	ASD	09/28/21 20:49	MS210927-3	.01	U	.00981	mg/L	98	70	130	2	20	

Ouray Silver Mines

ACZ Project ID: **L68530**

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.

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527677													
WG527677ICV	ICV	09/22/21 1:31	II210916-1	100		101.33	mg/L	101	95	105			
WG527677ICB	ICB	09/22/21 1:38				U	mg/L		-0.6	0.6			
WG527677LFB	LFB	09/22/21 1:51	II210910-2	100.007		102.5	mg/L	102	85	115			
L68389-01AS	AS	09/22/21 2:17	II210910-2	100.007	2.72	103.6	mg/L	101	85	115			
L68389-01ASD	ASD	09/22/21 2:20	II210910-2	100.007	2.72	103.6	mg/L	101	85	115	0	20	
L68575-01AS	AS	09/22/21 3:09	II210910-2	100.007	118	209.8	mg/L	92	85	115			
L68575-01ASD	ASD	09/22/21 3:12	II210910-2	100.007	118	217.5	mg/L	99	85	115	4	20	

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528151													
WG528151ICB	ICB	09/28/21 10:02				U	mg/L		-3	3			
WG528151ICV	ICV	09/28/21 10:02	WI210923-1	20.46		19.4	mg/L	95	90	110			
WG528151LFB	LFB	09/28/21 10:11	WI210105-3	10		9.8	mg/L	98	90	110			
L68529-03DUP	DUP	09/28/21 10:57			2510	2544	mg/L				1	20	
L68529-04AS	AS	09/28/21 10:58	SO4TURB20X	50	2380	2508.9	mg/L	258	90	110			M3

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528194													
WG528194ICV	ICV	09/28/21 20:11	MS210727-2	.05		.05265	mg/L	105	90	110			
WG528194ICB	ICB	09/28/21 20:12				U	mg/L		-0.00022	0.00022			
WG528194LFB	LFB	09/28/21 20:14	MS210927-3	.05		.04979	mg/L	100	85	115			
L68530-02AS	AS	09/28/21 20:47	MS210927-3	.05	U	.04998	mg/L	100	70	130			
L68530-02ASD	ASD	09/28/21 20:49	MS210927-3	.05	U	.04992	mg/L	100	70	130	0	20	

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528194													
WG528194ICV	ICV	09/28/21 20:11	MS210727-2	.05		.0514	mg/L	103	90	110			
WG528194ICB	ICB	09/28/21 20:12				U	mg/L		-0.00022	0.00022			
WG528194LFB	LFB	09/28/21 20:14	MS210927-3	.05		.04939	mg/L	99	85	115			
L68530-02AS	AS	09/28/21 20:47	MS210927-3	.05	U	.0495	mg/L	99	70	130			
L68530-02ASD	ASD	09/28/21 20:49	MS210927-3	.05	U	.05006	mg/L	100	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
WG527677													
WG527677ICV	ICV	09/22/21 1:31	II210916-1	2		1.976	mg/L	99	95	105			
WG527677ICB	ICB	09/22/21 1:38				U	mg/L		-0.015	0.015			
WG527677LFB	LFB	09/22/21 1:51	II210910-2	.5005		.5037	mg/L	101	85	115			
L68389-01AS	AS	09/22/21 2:17	II210910-2	.5005	U	.4977	mg/L	99	85	115			
L68389-01ASD	ASD	09/22/21 2:20	II210910-2	.5005	U	.496	mg/L	99	85	115	0	20	
L68575-01AS	AS	09/22/21 3:09	II210910-2	.5005	U	.4911	mg/L	98	85	115			
L68575-01ASD	ASD	09/22/21 3:12	II210910-2	.5005	U	.508	mg/L	101	85	115	3	20	

Ouray Silver Mines

ACZ Project ID: **L68530**

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.

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG527677													
WG527677ICV	ICV	09/22/21 1:31	II210916-1	2		1.995	mg/L	100	95	105			
WG527677ICB	ICB	09/22/21 1:38				U	mg/L		-0.06	0.06			
WG527677LFB	LFB	09/22/21 1:51	II210910-2	.50045		.521	mg/L	104	85	115			
L68389-01AS	AS	09/22/21 2:17	II210910-2	.50045	U	.52	mg/L	104	85	115			
L68389-01ASD	ASD	09/22/21 2:20	II210910-2	.50045	U	.517	mg/L	103	85	115	1	20	
L68575-01AS	AS	09/22/21 3:09	II210910-2	.50045	U	.53	mg/L	106	85	115			
L68575-01ASD	ASD	09/22/21 3:12	II210910-2	.50045	U	.547	mg/L	109	85	115	3	20	

Ouray Silver Mines

ACZ Project ID: **L68530**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68530-01	WG527916	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
		Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527930	Chloride	SM4500CI-E	Q6	Sample was received above recommended temperature.
			SM4500CI-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).
	WG527916	Conductivity @25C	SM2510B	Q6	Sample was received above recommended temperature.
	WG528320	Cyanide, total	M335.4 - Colorimetric w/ distillation	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M335.4 - Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			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).
	WG528163	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
	WG527916	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527994	Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	Q6	Sample was received above recommended temperature.
			M353.2 - H ₂ SO ₄ preserved	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).
	WG527916	pH	SM4500H+ B	Q6	Sample was received above recommended temperature.
			SM4500H+ B	Q6	Sample was received above recommended temperature.
	WG527989	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	Q6	Sample was received above recommended temperature.
			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).
	WG527695	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
			SM2540C	Z3	Sample volume yielded a residue less than 2.5 mg
	WG527762	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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).
	WG528151	Sulfate	SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
			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.
			D516-02/-07/-11 - TURBIDIMETRIC	Q6	Sample was received above recommended temperature.
	WG527916	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

Ouray Silver Mines

ACZ Project ID: **L68530**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68530-02	WG527916	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
		Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527930	Chloride	SM4500Cl-E	Q6	Sample was received above recommended temperature.
			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).
	WG527916	Conductivity @25C	SM2510B	Q6	Sample was received above recommended temperature.
	WG528320	Cyanide, total	M335.4 - Colorimetric w/ distillation	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M335.4 - Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			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).
	WG528163	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
	WG527916	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527994	Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	Q6	Sample was received above recommended temperature.
	WG527916	pH	SM4500H+ B	Q6	Sample was received above recommended temperature.
			SM4500H+ B	Q6	Sample was received above recommended temperature.
	WG527989	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	Q6	Sample was received above recommended temperature.
			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).
	WG527695	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
	WG527762	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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).
	WG528151	Sulfate	SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
			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.
			D516-02/-07/-11 - TURBIDIMETRIC	Q6	Sample was received above recommended temperature.
	WG527916	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

Ouray Silver Mines

ACZ Project ID: **L68530**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68530-03	WG527916	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
		Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527930	Chloride	SM4500Cl-E	Q6	Sample was received above recommended temperature.
			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).
	WG527916	Conductivity @25C	SM2510B	Q6	Sample was received above recommended temperature.
	WG528320	Cyanide, total	M335.4 - Colorimetric w/ distillation	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M335.4 - Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			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).
	WG528163	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
	WG527916	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527994	Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	Q6	Sample was received above recommended temperature.
	WG527916	pH	SM4500H+ B	Q6	Sample was received above recommended temperature.
			SM4500H+ B	Q6	Sample was received above recommended temperature.
	WG527989	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	Q6	Sample was received above recommended temperature.
			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).
	WG527695	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
	WG527762	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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).
	WG528151	Sulfate	SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
			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.
			D516-02/-07/-11 - TURBIDIMETRIC	Q6	Sample was received above recommended temperature.
	WG527916	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

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ACZ Project ID: **L68530**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68530-04	WG527916	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
		Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527930	Chloride	SM4500Cl-E	Q6	Sample was received above recommended temperature.
			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).
	WG527916	Conductivity @25C	SM2510B	Q6	Sample was received above recommended temperature.
	WG528320	Cyanide, total	M335.4 - Colorimetric w/ distillation	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M335.4 - Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			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).
	WG528163	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
	WG527916	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527994	Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	Q6	Sample was received above recommended temperature.
	WG527916	pH	SM4500H+ B	Q6	Sample was received above recommended temperature.
			SM4500H+ B	Q6	Sample was received above recommended temperature.
	WG527989	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	Q6	Sample was received above recommended temperature.
			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).
	WG527713	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
	WG527762	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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).
	WG528151	Sulfate	SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
			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.
			D516-02/-07/-11 - TURBIDIMETRIC	Q6	Sample was received above recommended temperature.
	WG527916	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

Ouray Silver Mines

ACZ Project ID: **L68530**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68530-05	WG527916	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
		Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527930	Chloride	SM4500Cl-E	Q6	Sample was received above recommended temperature.
			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).
	WG527916	Conductivity @25C	SM2510B	Q6	Sample was received above recommended temperature.
	WG528320	Cyanide, total	M335.4 - Colorimetric w/ distillation	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M335.4 - Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			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).
	WG528163	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
	WG527916	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527994	Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	Q6	Sample was received above recommended temperature.
	WG527916	pH	SM4500H+ B	Q6	Sample was received above recommended temperature.
			SM4500H+ B	Q6	Sample was received above recommended temperature.
	WG527989	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	Q6	Sample was received above recommended temperature.
			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).
	WG527713	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
	WG527762	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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).
	WG528151	Sulfate	SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
			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.
			D516-02/-07/-11 - TURBIDIMETRIC	Q6	Sample was received above recommended temperature.
	WG527916	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

Ouray Silver Mines

ACZ Project ID: **L68530**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68530-06	WG527916	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
		Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527930	Chloride	SM4500CI-E	Q6	Sample was received above recommended temperature.
			SM4500CI-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).
	WG527916	Conductivity @25C	SM2510B	Q6	Sample was received above recommended temperature.
	WG528320	Cyanide, total	M335.4 - Colorimetric w/ distillation	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M335.4 - Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			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).
	WG528163	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
	WG527916	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG527684	Mercury, dissolved	M245.1 CVAA	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG527994	Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	Q6	Sample was received above recommended temperature.
	WG527916	pH	SM4500H+ B	Q6	Sample was received above recommended temperature.
			SM4500H+ B	Q6	Sample was received above recommended temperature.
	WG527989	Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	Q6	Sample was received above recommended temperature.
			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).
	WG527713	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
	WG527762	Residue, Non-Filterable (TSS) @105C	SM2540D	Q6	Sample was received above recommended temperature.
			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
	WG528151	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.
			D516-02/-07/-11 - TURBIDIMETRIC	Q6	Sample was received above recommended temperature.
	WG527916	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

Ouray Silver Mines

ACZ Project ID: **L68530**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L68530

Date Received: 09/16/2021 11:14

Received By:

Date Printed: 9/17/2021

Receipt Verification

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

Samples/Containers

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

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?
-----	-----	-----	-----	-----
NA35951	7.6	<=6.0	15	Yes

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.

Ouray Silver Mines

ACZ Project ID: L68530

Date Received: 09/16/2021 11:14

Received By:

Date Printed: 9/17/2021

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).

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

Report to:

Name: Briana Greer	Address: 112 Village Square W Suite 205. Ridgway CO, 81432 Telephone: 307-760-8838
Company: Solid Solution Geosciences LLC	
E-mail: briana@solidsolutiongeosciences.com	

Copy of Report to:

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

Invoice to:

Name: Ashlee Briggs		Address: PO BOX 564
Company: Ouray Silver Mines Inc.		Ouray, CO 81427
E-mail: abriggs@ouraysilvermines.com		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	☒
NO	☐

Are samples for SDWA Compliance Monitoring?

Are samples for SDWA Compliance Monitoring?

Yes	☐

No	☒

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

Sampler's Name: Ja Shua Mox Sampler's Site Information State CO Zip code 81427 Time Zone Mtn

*Sampler's Signature: Joshua Moore

*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

ANALYSES REQUESTED (attach list or use quote number)

[illegible]

REMARKS

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

RELINQUISHED BY:

DATE:TIME

RECEIVED BY:

DATE: TIME

RECEIVED BY:		DATE/TIME
<i>Lena V Moore</i>	9/5/21 15:10	<i>JZ</i>
		9/6/21 11:14

October 08, 2021

Report to:
Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Accounts Payable, Environmental, Ashlee Briggs

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

Project ID:
ACZ Project ID: L68679

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on September 22, 2021. This project has been assigned to ACZ's project number, L68679. 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 L68679. 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 November 07, 2021. 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.



Sue Webber has reviewed and
approved this report.



Ouray Silver Mines

Project ID:

Sample ID: OF002A

ACZ Sample ID: **L68679-01**

Date Sampled: 09/21/21 11:12

Date Received: 09/22/21

Sample Matrix: Waste Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002- 31.5.31 (2009)								09/25/21 9:51	ssr
Cyanide, WAD	SM4500-CN I- distillation								09/29/21 10:27	mjj1
Total Hot Plate Digestion	M200.2 ICP				*				09/27/21 19:22	jlw
Total Recoverable Digestion	M200.2 ICP								09/26/21 21:04	kja

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, potentially dissolved	M200.8 ICP-MS	1	0.000280			mg/L	0.00005	0.00025	10/05/21 17:48	mfm
Copper, potentially dissolved	M200.8 ICP-MS	1	0.00081	B		mg/L	0.0008	0.002	09/29/21 17:45	mfm
Iron, total recoverable	M200.7 ICP	1	1.11			mg/L	0.06	0.15	09/27/21 11:41	kja
Lead, potentially dissolved	M200.8 ICP-MS	1	0.0137		*	mg/L	0.0001	0.0005	09/29/21 17:45	mfm
Lead, total	M200.7 ICP	2	<0.06	U		mg/L	0.06	0.3	09/28/21 22:43	jlw
Manganese, potentially dissolved	M200.8 ICP-MS	1	0.484			mg/L	0.0004	0.002	09/29/21 17:45	mfm
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/27/21 14:16	mlh
Silver, potentially dissolved	M200.8 ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	09/29/21 17:45	mfm
Zinc, potentially dissolved	M200.8 ICP-MS	1	0.106			mg/L	0.006	0.015	09/29/21 17:45	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	09/30/21 1:44	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H		units	0.1	0.1	09/29/21 0:00	jck
pH measured at		1	22.8			C	0.1	0.1	09/29/21 0:00	jck
Residue, Non- Filterable (TSS) @105C	SM2540D	1	16.0	B	*	mg/L	5	20	09/25/21 11:33	emk



Report Header Explanations

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

QC Sample Types

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

OURAYSM

ACZ Project ID: **L68679**

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.

Cadmium, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528727													
WG528727ICV	ICV	10/05/21 17:39	MS211001-2	.05		.052945	mg/L	106	90	110			
WG528727ICB	ICB	10/05/21 17:41				U	mg/L		-0.00011	0.00011			
WG528727LFB	LFB	10/05/21 17:43	MS210927-3	.05005		.043835	mg/L	88	85	115			
WG528000PBW	PBW	10/05/21 17:45				U	mg/L		-0.00015	0.00015			
L68679-01AS	AS	10/05/21 17:50	MS210927-3	.05005	.00028	.049496	mg/L	98	70	130			
L68679-01ASD	ASD	10/05/21 17:52	MS210927-3	.05005	.00028	.04774	mg/L	95	70	130	4	20	
WG528016PBW	PBW	10/05/21 18:05				U	mg/L		-0.00015	0.00015			

Copper, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528338													
WG528338ICV	ICV	09/29/21 17:27	MS210727-2	.05		.0489	mg/L	98	90	110			
WG528338ICB	ICB	09/29/21 17:29				U	mg/L		-0.00176	0.00176			
WG528338LFB	LFB	09/29/21 17:31	MS210927-3	.05		.05126	mg/L	103	85	115			
WG528000PBW	PBW	09/29/21 17:33				U	mg/L		-0.0024	0.0024			
L68678-01AS	AS	09/29/21 17:42	MS210927-3	.05	U	.04266	mg/L	85	70	130			
L68678-01ASD	ASD	09/29/21 17:44	MS210927-3	.05	U	.04316	mg/L	86	70	130	1	20	
WG528016PBW	PBW	09/29/21 18:05				U	mg/L		-0.0024	0.0024			IA

Cyanide, WAD

SM4500-CN I,E-Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528347													
WG528347ICV	ICV	09/30/21 0:44	WI210928-8	.3		.2996	mg/L	100	90	110			
WG528347ICB	ICB	09/30/21 0:45				U	mg/L		-0.003	0.003			
WG528349													
WG528206LRB	LRB	09/30/21 1:37				U	mg/L		-0.003	0.003			
WG528206LFB	LFB	09/30/21 1:38	WI210927-4	.2		.1857	mg/L	93	90	110			
L68665-01DUP	DUP	09/30/21 1:41			U	U	mg/L				0	20	RA
L68665-02LFM	LFM	09/30/21 1:43	WI210927-4	.2	U	.1933	mg/L	97	90	110			

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528044													
WG528044ICV	ICV	09/27/21 10:23	II210916-1	2		2.001	mg/L	100	95	105			
WG528044ICB	ICB	09/27/21 10:29				U	mg/L		-0.18	0.18			
WG528017LRB	LRB	09/27/21 10:41				U	mg/L		-0.132	0.132			
WG528017LFB	LFB	09/27/21 10:44	II210910-2	1.0001		.985	mg/L	98	85	115			
L68689-01LFM	LFM	09/27/21 11:53	II210910-2	1.0001	.151	1.173	mg/L	102	70	130			
L68689-01LFMD	LFMD	09/27/21 11:56	II210910-2	1.0001	.151	1.164	mg/L	101	70	130	1	20	

OURAYSM

ACZ Project ID: **L68679**

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.

Lead, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528338													
WG528338ICV	ICV	09/29/21 17:27	MS210727-2	.05		.05028	mg/L	101	90	110			
WG528338ICB	ICB	09/29/21 17:29				.00031	mg/L		-0.00022	0.00022			BB
WG528338LFB	LFB	09/29/21 17:31	MS210927-3	.05005		.05248	mg/L	105	85	115			
WG528000PBW	PBW	09/29/21 17:33				U	mg/L		-0.0003	0.0003			
L68678-01AS	AS	09/29/21 17:42	MS210927-3	.05005	.0001	.0555	mg/L	111	70	130			
L68678-01ASD	ASD	09/29/21 17:44	MS210927-3	.05005	.0001	.05518	mg/L	110	70	130	1	20	
WG528016PBW	PBW	09/29/21 18:05				U	mg/L		-0.0003	0.0003			

Lead, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528167													
WG528167ICV	ICV	09/28/21 21:45	II210923-1	4		3.997	mg/L	100	95	105			
WG528167ICB	ICB	09/28/21 21:51				U	mg/L		-0.09	0.09			
WG528105LRB	LRB	09/28/21 22:04				U	mg/L		-0.066	0.066			
WG528105LFB	LFB	09/28/21 22:07	II210910-2	1.0014		.978	mg/L	98	85	115			
L68670-03LFM	LFM	09/28/21 22:30	II210910-2	1.0014	U	.996	mg/L	99	70	130			
L68670-03LFMD	LFMD	09/28/21 22:33	II210910-2	1.0014	U	.987	mg/L	99	70	130	1	20	

Manganese, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528338													
WG528338ICV	ICV	09/29/21 17:27	MS210727-2	.05		.05119	mg/L	102	90	110			
WG528338ICB	ICB	09/29/21 17:29				U	mg/L		-0.00088	0.00088			
WG528338LFB	LFB	09/29/21 17:31	MS210927-3	.0499		.05315	mg/L	107	85	115			
WG528000PBW	PBW	09/29/21 17:33				U	mg/L		-0.0012	0.0012			
L68678-01AS	AS	09/29/21 17:42	MS210927-3	.0499	.294	.34517	mg/L	103	70	130			
L68678-01ASD	ASD	09/29/21 17:44	MS210927-3	.0499	.294	.34789	mg/L	108	70	130	1	20	
WG528016PBW	PBW	09/29/21 18:05				U	mg/L		-0.0012	0.0012			IA

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528034													
WG528034ICV	ICV	09/27/21 12:30	HG210927-3	.00501		.00508	mg/L	101	95	105			
WG528034ICB	ICB	09/27/21 12:31				U	mg/L		-0.0002	0.0002			
WG528032													
WG528032LRB	LRB	09/27/21 14:05				U	mg/L		-0.00044	0.00044			
WG528032LFB	LFB	09/27/21 14:06	HG210927-6	.002002		.00195	mg/L	97	85	115			
L68624-01LFM	LFM	09/27/21 14:08	HG210927-6	.002002	U	.00201	mg/L	100	85	115			
L68624-01LFMD	LFMD	09/27/21 14:09	HG210927-6	.002002	U	.00199	mg/L	99	85	115	1	20	

OURAYSM

ACZ Project ID: **L68679**

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
WG528341													
WG528341LCSW1	LCSW	09/29/21 18:49	PCN62948	6		6.1	units	102	5.9	6.1			
L68685-04DUP	DUP	09/29/21 22:05			8.3	8.3	units				0	20	
WG528341LCSW4	LCSW	09/29/21 22:10	PCN62948	6		6.1	units	102	5.9	6.1			
WG528341LCSW7	LCSW	09/30/21 1:50	PCN62948	6		6.1	units	102	5.9	6.1			
WG528341LCSW10	LCSW	09/30/21 5:04	PCN62948	6		6.1	units	102	5.9	6.1			
WG528341LCSW13	LCSW	09/30/21 8:33	PCN62948	6		6.1	units	102	5.9	6.1			

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

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528005													
WG528005PBW	PBW	09/25/21 11:30				U	mg/L		-2	2			
WG528005LCSW	LCSW	09/25/21 11:31	PCN64132	100		95	mg/L	95	80	120			
L68702-01DUP	DUP	09/25/21 11:45			U	U	mg/L				0	10	RA

Silver, potentially dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528338													
WG528338ICV	ICV	09/29/21 17:27	MS210727-2	.02		.02008	mg/L	100	90	110			
WG528338ICB	ICB	09/29/21 17:29				U	mg/L		-0.00022	0.00022			
WG528338LFB	LFB	09/29/21 17:31	MS210927-3	.01		.0116	mg/L	116	85	115			LA
WG528000PBW	PBW	09/29/21 17:33				U	mg/L		-0.0003	0.0003			
L68678-01AS	AS	09/29/21 17:42	MS210927-3	.01	U	.01085	mg/L	109	70	130			
L68678-01ASD	ASD	09/29/21 17:44	MS210927-3	.01	U	.01012	mg/L	101	70	130	7	20	
WG528016PBW	PBW	09/29/21 18:05				U	mg/L		-0.0003	0.0003			

Zinc, potentially dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528338													
WG528338ICV	ICV	09/29/21 17:27	MS210727-2	.05		.0475	mg/L	95	90	110			
WG528338ICB	ICB	09/29/21 17:29				U	mg/L		-0.0132	0.0132			
WG528338LFB	LFB	09/29/21 17:31	MS210927-3	.050075		.0567	mg/L	113	85	115			
WG528000PBW	PBW	09/29/21 17:33				U	mg/L		-0.018	0.018			
L68678-01AS	AS	09/29/21 17:42	MS210927-3	.050075	U	.0521	mg/L	104	70	130			
L68678-01ASD	ASD	09/29/21 17:44	MS210927-3	.050075	U	.0521	mg/L	104	70	130	0	20	
WG528016PBW	PBW	09/29/21 18:05				U	mg/L		-0.018	0.018			IA

Ouray Silver MinesACZ Project ID: **L68679**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68679-01	WG528349	Cyanide, WAD	SM4500-CN I,E-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).
	WG528338	Lead, potentially dissolved	M200.8 ICP-MS	BB	Target analyte detected in calibration blank at or above acceptance limit. Sample value was > 10X the concentration in the calibration blank.
	WG528005	Residue, Non-Filterable (TSS) @105C	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
	WG528338	Silver, potentially dissolved	M200.8 ICP-MS	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].
	WG528105	Total Hot Plate Digestion	M200.2 ICP	DH	Sample required dilution due to high TDS and/or EC value.

Ouray Silver Mines

ACZ Project ID: **L68679**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L68679

Date Received: 09/22/2021 10:53

Received By:

Date Printed: 9/23/2021

Receipt Verification

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

Samples/Containers

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

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?
6882	2.4	<=6.0	15	Yes

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.

Ouray Silver Mines

ACZ Project ID: L68679

Date Received: 09/22/2021 10:53

Received By:

Date Printed: 9/23/2021

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).

October 15, 2021

Report to:
Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Environmental, Accounts Payable

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

Project ID:
ACZ Project ID: L68770

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on September 24, 2021. This project has been assigned to ACZ's project number, L68770. 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 L68770. 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 November 14, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: GW-0

ACZ Sample ID: **L68770-01**

Date Sampled: 09/23/21 11:28

Date Received: 09/24/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								10/05/21 12:16	mjj1
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								09/30/21 9:02	bls

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	10/05/21 0:52	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	10/07/21 18:07	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00025	B		mg/L	0.0002	0.001	10/07/21 18:07	mfm
Barium, dissolved	M200.7 ICP	1	<0.007	U		mg/L	0.007	0.035	10/05/21 0:52	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	10/07/21 18:07	mfm
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	10/05/21 0:52	kja
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	10/07/21 18:07	mfm
Calcium, dissolved	M200.7 ICP	1	0.44	B		mg/L	0.1	0.5	10/05/21 0:52	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/07/21 18:07	mfm
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	10/07/21 18:07	mfm
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/05/21 0:52	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/07/21 18:07	mfm
Magnesium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	10/05/21 0:52	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/05/21 0:52	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/29/21 10:55	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00044	B		mg/L	0.0002	0.0005	10/07/21 18:07	mfm
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	10/05/21 0:52	kja
Potassium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	10/05/21 0:52	kja
Selenium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.00025	10/07/21 18:07	mfm
Silica, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	10/05/21 0:52	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/11/21 16:49	bsu
Sodium, dissolved	M200.7 ICP	1	<0.2	U		mg/L	0.2	1	10/05/21 0:52	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/07/21 18:07	mfm
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/07/21 18:07	mfm
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	10/05/21 0:52	kja
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/05/21 0:52	kja

Ouray Silver Mines

Project ID:

Sample ID: GW-0

ACZ Sample ID: **L68770-01**

Date Sampled: 09/23/21 11:28

Date Received: 09/24/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	<2	U		mg/L	2	20	09/30/21 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	09/30/21 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	09/30/21 0:00	jck
Total Alkalinity		1	<2	U		mg/L	2	20	09/30/21 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			n/a			%			10/15/21 0:00	calc
Sum of Anions			<	U		meq/L			10/15/21 0:00	calc
Sum of Cations			<	U		meq/L			10/15/21 0:00	calc
Chloride	SM4500Cl-E	1	0.65	B		mg/L	0.5	2	10/01/21 15:32	md
Conductivity @25C	SM2510B	1	<1	U		umhos/cm	1	10	09/30/21 6:25	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/05/21 17:03	md
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	10/05/21 14:47	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		1.1	B		mg/L	0.2	5	10/15/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H ₂ SO ₄ preserved	1	<0.02	U		mg/L	0.02	0.1	10/03/21 0:17	pjb
pH (lab)	SM4500H+ B									
pH		1	6.6	H		units	0.1	0.1	09/30/21 0:00	jck
pH measured at		1	22.9			C	0.1	0.1	09/30/21 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.032	B	*	mg/L	0.01	0.05	10/14/21 1:09	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	<20	U	*	mg/L	20	40	09/29/21 15:48	anc
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	UH	*	mg/L	5	20	10/02/21 12:28	eep
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	1	<1	U	*	mg/L	1	5	10/05/21 15:49	syw
TDS (calculated)	Calculation		1.09			mg/L			10/15/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		n/a						10/15/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: GW-99

ACZ Sample ID: **L68770-02**

Date Sampled: 09/23/21 12:55

Date Received: 09/24/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								10/05/21 12:37	mjj1
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								09/30/21 9:17	bls

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	10/05/21 1:02	kja
Antimony, dissolved	M200.8 ICP-MS	1	0.00094	B		mg/L	0.0004	0.002	10/07/21 18:13	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00061	B		mg/L	0.0002	0.001	10/07/21 18:13	mfm
Barium, dissolved	M200.7 ICP	1	0.0525			mg/L	0.007	0.035	10/05/21 1:02	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	10/07/21 18:13	mfm
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	10/05/21 1:02	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000135	B		mg/L	0.00005	0.00025	10/07/21 18:13	mfm
Calcium, dissolved	M200.7 ICP	1	30.6			mg/L	0.1	0.5	10/05/21 1:02	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/07/21 18:13	mfm
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	10/07/21 18:13	mfm
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/05/21 1:02	kja
Lead, dissolved	M200.8 ICP-MS	1	0.00016	B		mg/L	0.0001	0.0005	10/07/21 18:13	mfm
Magnesium, dissolved	M200.7 ICP	1	2.59			mg/L	0.2	1	10/05/21 1:02	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/05/21 1:02	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/29/21 10:58	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00116			mg/L	0.0002	0.0005	10/07/21 18:13	mfm
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	10/05/21 1:02	kja
Potassium, dissolved	M200.7 ICP	1	0.62	B		mg/L	0.2	1	10/05/21 1:02	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00022	B		mg/L	0.0001	0.00025	10/11/21 16:51	bsu
Silica, dissolved	M200.7 ICP	1	5.0			mg/L	0.2	1	10/05/21 1:02	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/11/21 16:51	bsu
Sodium, dissolved	M200.7 ICP	1	1.91			mg/L	0.2	1	10/05/21 1:02	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/07/21 18:13	mfm
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/07/21 18:13	mfm
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	10/05/21 1:02	kja
Zinc, dissolved	M200.7 ICP	1	0.057			mg/L	0.02	0.05	10/05/21 1:02	kja

Ouray Silver Mines

Project ID:

Sample ID: GW-99

ACZ Sample ID: **L68770-02**

Date Sampled: 09/23/21 12:55

Date Received: 09/24/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	35.3			mg/L	2	20	09/30/21 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	09/30/21 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	09/30/21 0:00	jck
Total Alkalinity		1	35.3			mg/L	2	20	09/30/21 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			10/15/21 0:00	calc
Sum of Anions			1.8			meq/L			10/15/21 0:00	calc
Sum of Cations			1.8			meq/L			10/15/21 0:00	calc
Chloride	SM4500Cl-E	1	0.79	B	*	mg/L	0.5	2	10/01/21 15:33	md
Conductivity @25C	SM2510B	1	205			umhos/cm	1	10	09/30/21 6:34	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/05/21 17:05	md
Fluoride	SM4500F-C	1	0.20	B		mg/L	0.15	0.35	10/05/21 14:55	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		87			mg/L	0.2	5	10/15/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.078	B		mg/L	0.02	0.1	10/03/21 0:18	pjb
pH (lab)	SM4500H+ B									
pH		1	7.9	H		units	0.1	0.1	09/30/21 0:00	jck
pH measured at		1	22.9			C	0.1	0.1	09/30/21 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	10/14/21 1:11	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	112			mg/L	20	40	09/29/21 15:52	anc
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	UH	*	mg/L	5	20	10/02/21 12:30	eep
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	52.5		*	mg/L	5	25	10/05/21 15:38	syw
TDS (calculated)	Calculation		117			mg/L			10/15/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.96						10/15/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: GW-1B

ACZ Sample ID: **L68770-03**

Date Sampled: 09/23/21 12:54

Date Received: 09/24/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								10/05/21 12:58	mjj1
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								09/30/21 9:33	bls

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	10/05/21 1:05	kja
Antimony, dissolved	M200.8 ICP-MS	1	0.00094	B		mg/L	0.0004	0.002	10/07/21 18:15	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00056	B		mg/L	0.0002	0.001	10/07/21 18:15	mfm
Barium, dissolved	M200.7 ICP	1	0.0523			mg/L	0.007	0.035	10/05/21 1:05	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	10/07/21 18:15	mfm
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	10/05/21 1:05	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000135	B		mg/L	0.00005	0.00025	10/07/21 18:15	mfm
Calcium, dissolved	M200.7 ICP	1	30.6			mg/L	0.1	0.5	10/05/21 1:05	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/07/21 18:15	mfm
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	10/07/21 18:15	mfm
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/05/21 1:05	kja
Lead, dissolved	M200.8 ICP-MS	1	0.00015	B		mg/L	0.0001	0.0005	10/07/21 18:15	mfm
Magnesium, dissolved	M200.7 ICP	1	2.60			mg/L	0.2	1	10/05/21 1:05	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/05/21 1:05	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	09/29/21 10:59	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00117			mg/L	0.0002	0.0005	10/07/21 18:15	mfm
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	10/05/21 1:05	kja
Potassium, dissolved	M200.7 ICP	1	0.62	B		mg/L	0.2	1	10/05/21 1:05	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00023	B		mg/L	0.0001	0.00025	10/11/21 16:52	bsu
Silica, dissolved	M200.7 ICP	1	5.0			mg/L	0.2	1	10/05/21 1:05	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/11/21 16:52	bsu
Sodium, dissolved	M200.7 ICP	1	1.90			mg/L	0.2	1	10/05/21 1:05	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/07/21 18:15	mfm
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/07/21 18:15	mfm
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	10/05/21 1:05	kja
Zinc, dissolved	M200.7 ICP	1	0.059			mg/L	0.02	0.05	10/05/21 1:05	kja

Ouray Silver Mines

Project ID:

Sample ID: GW-1B

ACZ Sample ID: **L68770-03**

Date Sampled: 09/23/21 12:54

Date Received: 09/24/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	35.6			mg/L	2	20	09/30/21 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	09/30/21 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	09/30/21 0:00	jck
Total Alkalinity		1	35.6			mg/L	2	20	09/30/21 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			10/15/21 0:00	calc
Sum of Anions			1.8			meq/L			10/15/21 0:00	calc
Sum of Cations			1.8			meq/L			10/15/21 0:00	calc
Chloride	SM4500Cl-E	1	0.99	B	*	mg/L	0.5	2	10/01/21 15:34	md
Conductivity @25C	SM2510B	1	205			umhos/cm	1	10	09/30/21 6:42	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/05/21 17:07	md
Fluoride	SM4500F-C	1	0.21	B		mg/L	0.15	0.35	10/05/21 15:03	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		87			mg/L	0.2	5	10/15/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.071	B		mg/L	0.02	0.1	10/03/21 0:19	pjb
pH (lab)	SM4500H+ B									
pH		1	8.0	H		units	0.1	0.1	09/30/21 0:00	jck
pH measured at		1	23.0			C	0.1	0.1	09/30/21 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	10/14/21 1:13	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	120			mg/L	20	40	09/29/21 15:57	anc
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	UH	*	mg/L	5	20	10/02/21 12:32	eep
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	51.1		*	mg/L	5	25	10/05/21 15:39	syw
TDS (calculated)	Calculation		116			mg/L			10/15/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.03						10/15/21 0:00	calc

Report Header Explanations

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

QC Sample Types

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

OURAYSM

ACZ Project ID: **L68770**

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
WG528341													
WG528341PBW1	PBW	09/29/21 18:44				4.7	mg/L		-20	20			
WG528341LCSW3	LCSW	09/29/21 19:04	WC210917-2	820.0001		815.9	mg/L	99	90	110			
WG528341LCSW6	LCSW	09/29/21 22:23	WC210917-2	820.0001		794.6	mg/L	97	90	110			
WG528341PBW2	PBW	09/29/21 22:30				U	mg/L		-20	20			
WG528341LCSW9	LCSW	09/30/21 2:03	WC210917-2	820.0001		798.8	mg/L	97	90	110			
WG528341PBW3	PBW	09/30/21 2:11				U	mg/L		-20	20			
WG528341LCSW12	LCSW	09/30/21 5:18	WC210917-2	820.0001		816.7	mg/L	100	90	110			
WG528341PBW4	PBW	09/30/21 5:26				U	mg/L		-20	20			
L68798-04DUP	DUP	09/30/21 7:04			374	360	mg/L				4	20	
WG528341LCSW15	LCSW	09/30/21 8:48	WC210917-2	820.0001		824.8	mg/L	101	90	110			

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528588													
WG528588ICV	ICV	10/05/21 0:04	II211001-1	2		1.986	mg/L	99	95	105			
WG528588ICB	ICB	10/05/21 0:10				U	mg/L		-0.15	0.15			
WG528588LFB	LFB	10/05/21 0:23	II210930-2	1.0008		1.039	mg/L	104	85	115			
L68764-03AS	AS	10/05/21 0:39	II210930-2	1.0008	U	1.044	mg/L	104	85	115			
L68764-03ASD	ASD	10/05/21 0:42	II210930-2	1.0008	U	1.051	mg/L	105	85	115	1	20	

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528958													
WG528958ICV	ICV	10/07/21 17:38	MS211001-2	.0201		.02038	mg/L	101	90	110			
WG528958ICB	ICB	10/07/21 17:40				U	mg/L		-0.00088	0.00088			
WG528958LFB	LFB	10/07/21 17:42	MS210927-3	.01		.01	mg/L	100	85	115			
L68764-01AS	AS	10/07/21 17:55	MS210927-3	.01	U	.01001	mg/L	100	70	130			
L68764-01ASD	ASD	10/07/21 17:57	MS210927-3	.01	U	.01024	mg/L	102	70	130	2	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528958													
WG528958ICV	ICV	10/07/21 17:38	MS211001-2	.05		.05215	mg/L	104	90	110			
WG528958ICB	ICB	10/07/21 17:40				U	mg/L		-0.00044	0.00044			
WG528958LFB	LFB	10/07/21 17:42	MS210927-3	.05005		.05169	mg/L	103	85	115			
L68764-01AS	AS	10/07/21 17:55	MS210927-3	.05005	U	.05347	mg/L	107	70	130			
L68764-01ASD	ASD	10/07/21 17:57	MS210927-3	.05005	U	.05361	mg/L	107	70	130	0	20	

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528588													
WG528588ICV	ICV	10/05/21 0:04	II211001-1	2		2.0077	mg/L	100	95	105			
WG528588ICB	ICB	10/05/21 0:10				U	mg/L		-0.021	0.021			
WG528588LFB	LFB	10/05/21 0:23	II210930-2	.5		.4991	mg/L	100	85	115			
L68764-03AS	AS	10/05/21 0:39	II210930-2	.5	.119	.6103	mg/L	98	85	115			
L68764-03ASD	ASD	10/05/21 0:42	II210930-2	.5	.119	.6159	mg/L	99	85	115	1	20	

OURAYSM

ACZ Project ID: **L68770**

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
WG528958													
WG528958ICV	ICV	10/07/21 17:38	MS211001-2	.05		.052755	mg/L	106	90	110			
WG528958ICB	ICB	10/07/21 17:40				U	mg/L		-0.000176	0.000176			
WG528958LFB	LFB	10/07/21 17:42	MS210927-3	.05005		.052467	mg/L	105	85	115			
L68764-01AS	AS	10/07/21 17:55	MS210927-3	.05005	U	.052609	mg/L	105	70	130			
L68764-01ASD	ASD	10/07/21 17:57	MS210927-3	.05005	U	.053046	mg/L	106	70	130	1	20	

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528588													
WG528588ICV	ICV	10/05/21 0:04	II211001-1	2		1.995	mg/L	100	95	105			
WG528588ICB	ICB	10/05/21 0:10				U	mg/L		-0.09	0.09			
WG528588LFB	LFB	10/05/21 0:23	II210930-2	.5005		.503	mg/L	100	85	115			
L68764-03AS	AS	10/05/21 0:39	II210930-2	.5005	U	.506	mg/L	101	85	115			
L68764-03ASD	ASD	10/05/21 0:42	II210930-2	.5005	U	.507	mg/L	101	85	115	0	20	

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528958													
WG528958ICV	ICV	10/07/21 17:38	MS211001-2	.05		.052812	mg/L	106	90	110			
WG528958ICB	ICB	10/07/21 17:40				U	mg/L		-0.00011	0.00011			
WG528958LFB	LFB	10/07/21 17:42	MS210927-3	.05005		.052356	mg/L	105	85	115			
L68764-01AS	AS	10/07/21 17:55	MS210927-3	.05005	U	.053666	mg/L	107	70	130			
L68764-01ASD	ASD	10/07/21 17:57	MS210927-3	.05005	U	.054084	mg/L	108	70	130	1	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528588													
WG528588ICV	ICV	10/05/21 0:04	II211001-1	100		100.03	mg/L	100	95	105			
WG528588ICB	ICB	10/05/21 0:10				.11	mg/L		-0.3	0.3			
WG528588LFB	LFB	10/05/21 0:23	II210930-2	67.98972		70.4	mg/L	104	85	115			
L68764-03AS	AS	10/05/21 0:39	II210930-2	67.98972	34.4	103	mg/L	101	85	115			
L68764-03ASD	ASD	10/05/21 0:42	II210930-2	67.98972	34.4	102.2	mg/L	100	85	115	1	20	

Chloride

SM4500Cl-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528495													
WG528495ICV	ICV	10/01/21 15:24	WI210503-1	54.89		54.54	mg/L	99	90	110			
WG528495ICB	ICB	10/01/21 15:24				.63	mg/L		-1.5	1.5			
L68569-01AS	AS	10/01/21 15:26	WI210908-11	29.97	12.7	44.88	mg/L	107	90	110			
L68573-01DUP	DUP	10/01/21 15:27			175	177.08	mg/L				1	20	
L68770-02AS	AS	10/01/21 15:33	WI210908-11	29.97	.79	27.96	mg/L	91	90	110			
L68770-03DUP	DUP	10/01/21 15:34			.99	.69	mg/L				36	20	RA
WG528495LFB2	LFB	10/01/21 15:40	WI210908-11	29.97		28.53	mg/L	95	90	110			
WG528495LFB1	LFB	10/01/21 16:07	WI210908-11	29.97		29.54	mg/L	99	90	110			

OURAYSM

ACZ Project ID: **L68770**

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
WG528958													
WG528958ICV	ICV	10/07/21 17:38	MS211001-2	.05		.05267	mg/L	105	90	110			
WG528958ICB	ICB	10/07/21 17:40				U	mg/L		-0.0011	0.0011			
WG528958LFB	LFB	10/07/21 17:42	MS210927-3	.05		.05068	mg/L	101	85	115			
L68764-01AS	AS	10/07/21 17:55	MS210927-3	.05	U	.05021	mg/L	100	70	130			
L68764-01ASD	ASD	10/07/21 17:57	MS210927-3	.05	U	.05039	mg/L	101	70	130	0	20	

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528341													
WG528341LCSW2	LCSW	09/29/21 18:51	PCN63140	1408		1449	umhos/cm	103	90	110			
WG528341LCSW5	LCSW	09/29/21 22:12	PCN63140	1408		1444	umhos/cm	103	90	110			
WG528341LCSW8	LCSW	09/30/21 1:52	PCN63140	1408		1433	umhos/cm	102	90	110			
WG528341LCSW11	LCSW	09/30/21 5:05	PCN63140	1408		1423	umhos/cm	101	90	110			
L68798-04DUP	DUP	09/30/21 7:04			3530	3540	umhos/cm				0	20	
WG528341LCSW14	LCSW	09/30/21 8:35	PCN63140	1408		1415	umhos/cm	100	90	110			

Copper, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528958													
WG528958ICV	ICV	10/07/21 17:38	MS211001-2	.05		.05219	mg/L	104	90	110			
WG528958ICB	ICB	10/07/21 17:40				U	mg/L		-0.00176	0.00176			
WG528958LFB	LFB	10/07/21 17:42	MS210927-3	.05		.05039	mg/L	101	85	115			
L68764-01AS	AS	10/07/21 17:55	MS210927-3	.05	.00138	.04943	mg/L	96	70	130			
L68764-01ASD	ASD	10/07/21 17:57	MS210927-3	.05	.00138	.05018	mg/L	98	70	130	2	20	

Cyanide, total

M335.4 - Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528726													
WG528726ICV	ICV	10/05/21 17:00	WI210928-8	.3		.2966	mg/L	99	90	110			
WG528726ICB	ICB	10/05/21 17:01				U	mg/L		-0.003	0.003			
WG528637LRB	LRB	10/05/21 17:02				U	mg/L		-0.003	0.003			
WG528637LFB	LFB	10/05/21 17:03	WI210927-2	.2		.1985	mg/L	99	90	110			
L68770-01DUP	DUP	10/05/21 17:04			U	U	mg/L				0	20	RA
L68770-02LFM	LFM	10/05/21 17:06	WI210927-2	.2	U	.2009	mg/L	100	90	110			

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528675													
WG528675ICV	ICV	10/05/21 14:09	WC210920-1	2.002		2.19	mg/L	109	90	110			
WG528675ICB	ICB	10/05/21 14:13				U	mg/L		-0.3	0.3			
WG528675LFB1	LFB	10/05/21 14:21	WC210803-9	5.02		5.23	mg/L	104	90	110			
L68770-03AS	AS	10/05/21 15:11	WC210803-9	5.02	.21	5.31	mg/L	102	90	110			
L68770-03ASD	ASD	10/05/21 15:19	WC210803-9	5.02	.21	5.36	mg/L	103	90	110	1	20	
WG528675LFB2	LFB	10/05/21 19:19	WC210803-9	5.02		5.12	mg/L	102	90	110			

OURAYSM

ACZ Project ID: **L68770**

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
WG528588													
WG528588ICV	ICV	10/05/21 0:04	II211001-1	2		1.988	mg/L	99	95	105			
WG528588ICB	ICB	10/05/21 0:10				U	mg/L		-0.18	0.18			
WG528588LFB	LFB	10/05/21 0:23	II210930-2	1.0001		1.029	mg/L	103	85	115			
L68764-03AS	AS	10/05/21 0:39	II210930-2	1.0001	U	1.018	mg/L	102	85	115			
L68764-03ASD	ASD	10/05/21 0:42	II210930-2	1.0001	U	1.013	mg/L	101	85	115	0	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528958													
WG528958ICV	ICV	10/07/21 17:38	MS211001-2	.05		.05235	mg/L	105	90	110			
WG528958ICB	ICB	10/07/21 17:40				U	mg/L		-0.00022	0.00022			
WG528958LFB	LFB	10/07/21 17:42	MS210927-3	.05005		.05153	mg/L	103	85	115			
L68764-01AS	AS	10/07/21 17:55	MS210927-3	.05005	U	.05207	mg/L	104	70	130			
L68764-01ASD	ASD	10/07/21 17:57	MS210927-3	.05005	U	.05191	mg/L	104	70	130	0	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528588													
WG528588ICV	ICV	10/05/21 0:04	II211001-1	100		96.55	mg/L	97	95	105			
WG528588ICB	ICB	10/05/21 0:10				U	mg/L		-0.6	0.6			
WG528588LFB	LFB	10/05/21 0:23	II210930-2	49.99828		49.5	mg/L	99	85	115			
L68764-03AS	AS	10/05/21 0:39	II210930-2	49.99828	4.63	53.56	mg/L	98	85	115			
L68764-03ASD	ASD	10/05/21 0:42	II210930-2	49.99828	4.63	52.95	mg/L	97	85	115	1	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528588													
WG528588ICV	ICV	10/05/21 0:04	II211001-1	2		1.967	mg/L	98	95	105			
WG528588ICB	ICB	10/05/21 0:10				U	mg/L		-0.03	0.03			
WG528588LFB	LFB	10/05/21 0:23	II210930-2	.5005		.508	mg/L	101	85	115			
L68764-03AS	AS	10/05/21 0:39	II210930-2	.5005	U	.499	mg/L	100	85	115			
L68764-03ASD	ASD	10/05/21 0:42	II210930-2	.5005	U	.504	mg/L	101	85	115	1	20	

Mercury, dissolved

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528226													
WG528226ICV	ICV	09/29/21 9:54	HG210927-3	.00501		.00507	mg/L	101	95	105			
WG528226ICB	ICB	09/29/21 9:55				U	mg/L		-0.0002	0.0002			
WG528227													
WG528227LRB	LRB	09/29/21 10:31				U	mg/L		-0.00044	0.00044			
WG528227LFB	LFB	09/29/21 10:32	HG210927-6	.002002		.00197	mg/L	98	85	115			
L68770-01LFM	LFM	09/29/21 10:56	HG210927-6	.002002	U	.0019	mg/L	95	85	115			
L68770-01LFMD	LFMD	09/29/21 10:57	HG210927-6	.002002	U	.00198	mg/L	99	85	115	4	20	

OURAYSM

ACZ Project ID: **L68770**

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.

Molybdenum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528958													
WG528958ICV	ICV	10/07/21 17:38	MS211001-2	.01992		.02047	mg/L	103	90	110			
WG528958ICB	ICB	10/07/21 17:40				U	mg/L		-0.00044	0.00044			
WG528958LFB	LFB	10/07/21 17:42	MS210927-3	.05005		.05082	mg/L	102	85	115			
L68764-01AS	AS	10/07/21 17:55	MS210927-3	.05005	.00122	.05117	mg/L	100	70	130			
L68764-01ASD	ASD	10/07/21 17:57	MS210927-3	.05005	.00122	.05189	mg/L	101	70	130	1	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528588													
WG528588ICV	ICV	10/05/21 0:04	II211001-1	2		1.976	mg/L	99	95	105			
WG528588ICB	ICB	10/05/21 0:10				U	mg/L		-0.024	0.024			
WG528588LFB	LFB	10/05/21 0:23	II210930-2	.5		.5036	mg/L	101	85	115			
L68764-03AS	AS	10/05/21 0:39	II210930-2	.5	U	.4925	mg/L	99	85	115			
L68764-03ASD	ASD	10/05/21 0:42	II210930-2	.5	U	.4932	mg/L	99	85	115	0	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
WG528526													
WG528526ICV	ICV	10/02/21 21:12	WI210904-1	2.4161		2.375	mg/L	98	90	110			
WG528526ICB	ICB	10/02/21 21:13				U	mg/L		-0.02	0.02			
WG528529													
WG528529LFB	LFB	10/02/21 23:51	WI211001-5	2		2.048	mg/L	102	90	110			
L68720-02AS	AS	10/03/21 0:13	WI211001-5	2	.812	2.882	mg/L	104	90	110			
L68720-03DUP	DUP	10/03/21 0:15			2.43	2.548	mg/L				5	20	

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528341													
WG528341LCSW1	LCSW	09/29/21 18:49	PCN62948	6		6.1	units	102	5.9	6.1			
WG528341LCSW4	LCSW	09/29/21 22:10	PCN62948	6		6.1	units	102	5.9	6.1			
WG528341LCSW7	LCSW	09/30/21 1:50	PCN62948	6		6.1	units	102	5.9	6.1			
WG528341LCSW10	LCSW	09/30/21 5:04	PCN62948	6		6.1	units	102	5.9	6.1			
L68798-04DUP	DUP	09/30/21 7:04			8.1	8.1	units				0	20	
WG528341LCSW13	LCSW	09/30/21 8:33	PCN62948	6		6.1	units	102	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
WG529397													
WG529397ICV	ICV	10/13/21 23:51	WI210831-4	.6523		.681	mg/L	104	90	110			
WG529397ICB	ICB	10/13/21 23:54				U	mg/L		-0.01	0.01			
WG529399													
WG528353LRB	LRB	10/14/21 1:06				U	mg/L		-0.01	0.01			
WG528353LFB	LFB	10/14/21 1:07	WI210921-12	.5		.461	mg/L	92	90	110			
L68770-01LFM	LFM	10/14/21 1:10	WI210921-12	.5	.032	.502	mg/L	94	90	110			
L68770-02DUP	DUP	10/14/21 1:12			U	U	mg/L				0	20	RA

OURAYSM

ACZ Project ID: **L68770**

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.

Potassium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528588													
WG528588ICV	ICV	10/05/21 0:04	II211001-1	20		19.22	mg/L	96	95	105			
WG528588ICB	ICB	10/05/21 0:10				.25	mg/L		-0.6	0.6			
WG528588LFB	LFB	10/05/21 0:23	II210930-2	99.96008		101.1	mg/L	101	85	115			
L68764-03AS	AS	10/05/21 0:39	II210930-2	99.96008	.88	101.7	mg/L	101	85	115			
L68764-03ASD	ASD	10/05/21 0:42	II210930-2	99.96008	.88	100.8	mg/L	100	85	115	1	20	

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528315													
WG528315PBW	PBW	09/29/21 14:55				U	mg/L		-20	20			
WG528315LCSW	LCSW	09/29/21 14:59	PCN64133	1000		966	mg/L	97	80	120			
L68771-07DUP	DUP	09/29/21 16:30			1040	1036	mg/L				0	10	

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528525													
WG528525PBW	PBW	10/02/21 12:20				U	mg/L		-5	5			
WG528525LCSW	LCSW	10/02/21 12:21	PCN64138	100		94	mg/L	94	80	120			
L68770-01DUP	DUP	10/02/21 12:40			U	U	mg/L				0	10	RA

Selenium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528958													
WG528958ICV	ICV	10/07/21 17:38	MS211001-2	.05		.05134	mg/L	103	90	110			
WG528958ICB	ICB	10/07/21 17:40				U	mg/L		-0.00022	0.00022			
WG528958LFB	LFB	10/07/21 17:42	MS210927-3	.05		.05056	mg/L	101	85	115			
L68764-01AS	AS	10/07/21 17:55	MS210927-3	.05	U	.05787	mg/L	116	70	130			
L68764-01ASD	ASD	10/07/21 17:57	MS210927-3	.05	U	.05825	mg/L	117	70	130	1	20	
WG529145													
WG529145ICV	ICV	10/11/21 16:26	MS211001-2	.05		.05038	mg/L	101	90	110			
WG529145ICB	ICB	10/11/21 16:28				U	mg/L		-0.00022	0.00022			
WG529145LFB	LFB	10/11/21 16:30	MS210927-3	.05		.05208	mg/L	104	85	115			
L68719-02AS	AS	10/11/21 16:36	MS210927-3	.05	U	.05369	mg/L	107	70	130			
L68719-02ASD	ASD	10/11/21 16:38	MS210927-3	.05	U	.05401	mg/L	108	70	130	1	20	

Silica, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528588													
WG528588ICV	ICV	10/05/21 0:04	II211001-1	42.8		44.15	mg/L	103	95	105			
WG528588ICB	ICB	10/05/21 0:10				U	mg/L		-0.6	0.6			
WG528588LFB	LFB	10/05/21 0:23	II210930-2	21.404		22.61	mg/L	106	85	115			
L68764-03AS	AS	10/05/21 0:39	II210930-2	21.404	6.8	29.06	mg/L	104	85	115			
L68764-03ASD	ASD	10/05/21 0:42	II210930-2	21.404	6.8	29.23	mg/L	105	85	115	1	20	

OURAYSM

ACZ Project ID: **L68770**

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.

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529145													
WG529145ICV	ICV	10/11/21 16:26	MS211001-2	.02		.01816	mg/L	91	90	110			
WG529145ICB	ICB	10/11/21 16:28				U	mg/L		-0.00022	0.00022			
WG529145LFB	LFB	10/11/21 16:30	MS210927-3	.01		.01055	mg/L	106	85	115			
L68719-02AS	AS	10/11/21 16:36	MS210927-3	.01	U	.00982	mg/L	98	70	130			
L68719-02ASD	ASD	10/11/21 16:38	MS210927-3	.01	U	.00956	mg/L	96	70	130	3	20	

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528588													
WG528588ICV	ICV	10/05/21 0:04	II211001-1	100		99.83	mg/L	100	95	105			
WG528588ICB	ICB	10/05/21 0:10				U	mg/L		-0.6	0.6			
WG528588LFB	LFB	10/05/21 0:23	II210930-2	100.007		101.8	mg/L	102	85	115			
L68764-03AS	AS	10/05/21 0:39	II210930-2	100.007	2.03	103.8	mg/L	102	85	115			
L68764-03ASD	ASD	10/05/21 0:42	II210930-2	100.007	2.03	103.2	mg/L	101	85	115	1	20	

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528694													
WG528694ICB	ICB	10/05/21 10:21				U	mg/L		-3	3			
WG528694ICV	ICV	10/05/21 10:21	WI210923-1	20.46		19.9	mg/L	97	90	110			
WG528694LFB	LFB	10/05/21 15:27	WI210105-3	10		10.2	mg/L	102	90	110			
L68771-01DUP	DUP	10/05/21 15:52			668	638.4	mg/L				5	20	
L68771-02AS	AS	10/05/21 15:54	SO4TURB20X	10	763	762.5	mg/L	-5	90	110			M3

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528958													
WG528958ICV	ICV	10/07/21 17:38	MS211001-2	.05		.0532	mg/L	106	90	110			
WG528958ICB	ICB	10/07/21 17:40				U	mg/L		-0.00022	0.00022			
WG528958LFB	LFB	10/07/21 17:42	MS210927-3	.05		.05073	mg/L	101	85	115			
L68764-01AS	AS	10/07/21 17:55	MS210927-3	.05	U	.05179	mg/L	104	70	130			
L68764-01ASD	ASD	10/07/21 17:57	MS210927-3	.05	U	.05092	mg/L	102	70	130	2	20	

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528958													
WG528958ICV	ICV	10/07/21 17:38	MS211001-2	.05		.05186	mg/L	104	90	110			
WG528958ICB	ICB	10/07/21 17:40				U	mg/L		-0.00022	0.00022			
WG528958LFB	LFB	10/07/21 17:42	MS210927-3	.05		.05094	mg/L	102	85	115			
L68764-01AS	AS	10/07/21 17:55	MS210927-3	.05	.00173	.05557	mg/L	108	70	130			
L68764-01ASD	ASD	10/07/21 17:57	MS210927-3	.05	.00173	.05508	mg/L	107	70	130	1	20	

OURAYSM

ACZ Project ID: **L68770**

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.

Vanadium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528588													
WG528588ICV	ICV	10/05/21 0:04	II211001-1	2		1.976	mg/L	99	95	105			
WG528588ICB	ICB	10/05/21 0:10				U	mg/L		-0.015	0.015			
WG528588LFB	LFB	10/05/21 0:23	II210930-2	.5005		.5125	mg/L	102	85	115			
L68764-03AS	AS	10/05/21 0:39	II210930-2	.5005	U	.5048	mg/L	101	85	115			
L68764-03ASD	ASD	10/05/21 0:42	II210930-2	.5005	U	.501	mg/L	100	85	115	1	20	

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528588													
WG528588ICV	ICV	10/05/21 0:04	II211001-1	2		1.987	mg/L	99	95	105			
WG528588ICB	ICB	10/05/21 0:10				U	mg/L		-0.06	0.06			
WG528588LFB	LFB	10/05/21 0:23	II210930-2	.50045		.546	mg/L	109	85	115			
L68764-03AS	AS	10/05/21 0:39	II210930-2	.50045	U	.537	mg/L	107	85	115			
L68764-03ASD	ASD	10/05/21 0:42	II210930-2	.50045	U	.528	mg/L	106	85	115	2	20	

Ouray Silver Mines

ACZ Project ID: **L68770**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68770-01	WG528726	Cyanide, total	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).
	WG529399	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).
	WG528315	Residue, Filterable (TDS) @180C	SM2540C	Z3	Sample volume yielded a residue less than 2.5 mg
	WG528525	Residue, Non-Filterable (TSS) @105C	SM2540D	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.
			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
	WG528694	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.
L68770-02	WG528495	Chloride	SM4500CI-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).
	WG528726	Cyanide, total	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).
	WG529399	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).
	WG528525	Residue, Non-Filterable (TSS) @105C	SM2540D	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.
			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
	WG528694	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.
L68770-03	WG528495	Chloride	SM4500CI-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).
	WG528726	Cyanide, total	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).
	WG529399	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).
	WG528525	Residue, Non-Filterable (TSS) @105C	SM2540D	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.
			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
	WG528694	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.

Ouray Silver Mines

ACZ Project ID: **L68770**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L68770

Date Received: 09/24/2021 09:28

Received By:

Date Printed: 9/27/2021

Receipt Verification

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

Samples/Containers

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

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?
-----	-----	-----	-----	-----
6724	1.9	<=6.0	15	Yes

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.

Ouray Silver Mines

ACZ Project ID: L68770

Date Received: 09/24/2021 09:28

Received By:

Date Printed: 9/27/2021

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).

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

Report to:

Name:	Briana Greer	Address:	112 Village Square W Suite 205.
Company:	Solid Solution Geosciences LLC		Ridgway CO, 81432
E-mail:	briana@solidsolutiongeosciences.com	Telephone:	307-760-8838

Copy of Report to:

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

Invoice to:

Name: Ashlee Briggs		Address: PO BOX 564
Company: Ouray Silver Mines Inc.		Ouray, CO 81427
E-mail: abriggs@ouraysilvermines.com		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	☒
NO	☐

Are samples for SDWA Compliance Monitoring available for analysis? ☒ YES ☐ NO ☐ NO HT
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 ☒

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

Sampler's Name: Joshua Mui Sampler's Site Information State CO Zip code 81427 Time Zone Mtn

*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

ANALYSES REQUESTED (attach list or use quote number)

Quote #: <u>GW</u>			# of Containers	<u>GW</u>											
PO#:															
Reporting state for compliance testing: <u>CO</u>			☐												
Check box if samples include NRC licensed material?															
SAMPLE IDENTIFICATION	DATE:TIME	Matrix													
<u>GW-0</u>	<u>9/23/21 11:20-11:28</u>	<u>GW</u>	<u>5</u>	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
<u>GW-99</u>	<u>9/23/21 12:42-12:55</u>	<u>GW</u>	<u>5</u>	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
<u>GW-1B</u>	<u>9/23/21 12:41-12:54</u>	<u>GW</u>	<u>5</u>	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Matrix	SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)														

REMARKS

The GW-1B labels were predated, predate was stricken through and correct date of 9/23/21 applied. JMR

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

Please refer to AGC's terms & conditions located on the reverse side of this COC.			
RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
<i>Laura Moore</i>	<i>9/23/21 13:58</i>	<i>[Signature]</i>	<i>9/24/21 19:28</i>

October 21, 2021

Report to:

Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Environmental, Accounts Payable

Bill to:

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

Project ID:

ACZ Project ID: L68908

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 01, 2021. This project has been assigned to ACZ's project number, L68908. Please reference this number in all future inquiries.

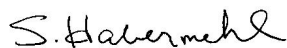
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L68908. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 November 20, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: OF002A

ACZ Sample ID: **L68908-01**

Date Sampled: 09/30/21 00:00

Date Received: 10/01/21

Sample Matrix: Waste Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002- 31.5.31 (2009)								10/02/21 9:28	ssr
Cyanide, WAD	SM4500-CN I- distillation								10/12/21 12:39	mjj1
Total Hot Plate Digestion	M200.2 ICP								10/06/21 16:26	jlw
Total Recoverable Digestion	M200.2 ICP								10/08/21 16:44	kja

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, potentially dissolved	M200.8 ICP-MS	1	0.000243	B		mg/L	0.00005	0.00025	10/11/21 18:28	bsu
Copper, potentially dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	10/11/21 18:28	bsu
Iron, total recoverable	M200.7 ICP	1	0.228			mg/L	0.06	0.15	10/08/21 19:58	jlw
Lead, potentially dissolved	M200.8 ICP-MS	1	0.00465			mg/L	0.0001	0.0005	10/11/21 18:28	bsu
Lead, total	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.15	10/07/21 15:13	jlw
Manganese, potentially dissolved	M200.8 ICP-MS	1	0.390			mg/L	0.0004	0.002	10/11/21 18:28	bsu
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/06/21 12:44	mlh
Silver, potentially dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/11/21 18:28	bsu
Zinc, potentially dissolved	M200.8 ICP-MS	1	0.0948			mg/L	0.006	0.015	10/11/21 18:28	bsu

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/14/21 18:16	mjj1
pH (lab)	SM4500H+ B									
pH		1	8.4	H		units	0.1	0.1	10/13/21 0:00	jck
pH measured at		1	22.5			C	0.1	0.1	10/13/21 0:00	jck
Residue, Non- Filterable (TSS) @105C	SM2540D	1	6.0	B	*	mg/L	5	20	10/06/21 15:56	scd

Report Header Explanations

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

QC Sample Types

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

OURAYSM

ACZ Project ID: **L68908**

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.

Cadmium, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529159													
WG529159ICV	ICV	10/11/21 18:15	MS211001-2	.05		.052456	mg/L	105	90	110			
WG529159ICB	ICB	10/11/21 18:16				U	mg/L		-0.00011	0.00011			
WG529159LFB	LFB	10/11/21 18:18	MS210927-3	.05005		.054169	mg/L	108	85	115			
WG528523PBW	PBW	10/11/21 18:20				U	mg/L		-0.00015	0.00015			
WG528501PBW	PBW	10/11/21 18:38				U	mg/L		-0.00015	0.00015			
L68836-01AS	AS	10/11/21 18:43	MS210927-3	.05005	.000101	.052512	mg/L	105	70	130			
L68836-01ASD	ASD	10/11/21 18:45	MS210927-3	.05005	.000101	.052074	mg/L	104	70	130	1	20	

Copper, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529159													
WG529159ICV	ICV	10/11/21 18:15	MS211001-2	.05		.05199	mg/L	104	90	110			
WG529159ICB	ICB	10/11/21 18:16				U	mg/L		-0.00176	0.00176			
WG529159LFB	LFB	10/11/21 18:18	MS210927-3	.05		.05257	mg/L	105	85	115			
WG528523PBW	PBW	10/11/21 18:20				U	mg/L		-0.0024	0.0024			
WG528501PBW	PBW	10/11/21 18:38				U	mg/L		-0.0024	0.0024			
L68836-01AS	AS	10/11/21 18:43	MS210927-3	.05	.0699	.11877	mg/L	98	70	130			
L68836-01ASD	ASD	10/11/21 18:45	MS210927-3	.05	.0699	.12007	mg/L	100	70	130	1	20	

Cyanide, WAD

SM4500-CN I,E-Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529384													
WG529384ICV	ICV	10/14/21 17:38	WI211011-7	.3		.2939	mg/L	98	90	110			
WG529384ICB	ICB	10/14/21 17:39				U	mg/L		-0.003	0.003			
WG529235LFB	LFB	10/14/21 18:15	WI211011-6	.2		.2102	mg/L	105	90	110			
L68908-01DUP	DUP	10/14/21 18:17			U	U	mg/L				0	20	RA
L68934-01LFM	LFM	10/14/21 18:19	WI211011-6	.2	U	.1937	mg/L	97	90	110			
WG529235LRB	LRB	10/14/21 18:20				U	mg/L		-0.003	0.003			

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529002													
WG529002ICV	ICV	10/08/21 18:11	II211001-1	2		1.969	mg/L	98	95	105			
WG529002ICB	ICB	10/08/21 18:17				U	mg/L		-0.18	0.18			
WG528910LRB	LRB	10/08/21 18:30				U	mg/L		-0.132	0.132			
WG528910LFB	LFB	10/08/21 18:33	II210930-2	1.0001		1.002	mg/L	100	85	115			
L68908-01LFM	LFM	10/08/21 20:01	II210930-2	1.0001	.228	1.198	mg/L	97	70	130			
L68908-01LFMD	LFMD	10/08/21 20:04	II210930-2	1.0001	.228	1.199	mg/L	97	70	130	0	20	

OURAYSM

ACZ Project ID: **L68908**

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.

Lead, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529159													
WG529159ICV	ICV	10/11/21 18:15	MS211001-2	.05		.05205	mg/L	104	90	110			
WG529159ICB	ICB	10/11/21 18:16				U	mg/L		-0.00022	0.00022			
WG529159LFB	LFB	10/11/21 18:18	MS210927-3	.05005		.05323	mg/L	106	85	115			
WG528523PBW	PBW	10/11/21 18:20				U	mg/L		-0.0003	0.0003			
WG528501PBW	PBW	10/11/21 18:38				U	mg/L		-0.0003	0.0003			
L68836-01AS	AS	10/11/21 18:43	MS210927-3	.05005	.00161	.05188	mg/L	100	70	130			
L68836-01ASD	ASD	10/11/21 18:45	MS210927-3	.05005	.00161	.05157	mg/L	100	70	130	1	20	

Lead, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528933													
WG528933ICV	ICV	10/07/21 14:18	II210923-1	4		3.958	mg/L	99	95	105			
WG528933ICB	ICB	10/07/21 14:24				U	mg/L		-0.09	0.09			
WG528776LRB	LRB	10/07/21 14:36				U	mg/L		-0.066	0.066			
WG528776LFB	LFB	10/07/21 14:39	II210930-2	1.0014		.999	mg/L	100	85	115			
L68900-12LFM	LFM	10/07/21 14:54	II210930-2	1.0014	U	.989	mg/L	99	70	130			
L68900-12LFMD	LFMD	10/07/21 14:57	II210930-2	1.0014	U	.99	mg/L	99	70	130	0	20	

Manganese, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529159													
WG529159ICV	ICV	10/11/21 18:15	MS211001-2	.05		.0519	mg/L	104	90	110			
WG529159ICB	ICB	10/11/21 18:16				U	mg/L		-0.00088	0.00088			
WG529159LFB	LFB	10/11/21 18:18	MS210927-3	.0499		.05402	mg/L	108	85	115			
WG528523PBW	PBW	10/11/21 18:20				U	mg/L		-0.0012	0.0012			
WG528501PBW	PBW	10/11/21 18:38				U	mg/L		-0.0012	0.0012			
L68836-01AS	AS	10/11/21 18:43	MS210927-3	.0499	.0427	.09253	mg/L	100	70	130			
L68836-01ASD	ASD	10/11/21 18:45	MS210927-3	.0499	.0427	.09215	mg/L	99	70	130	0	20	

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528634													
WG528634ICV	ICV	10/06/21 9:13	HG211004-3	.00501		.00505	mg/L	101	95	105			
WG528634ICB	ICB	10/06/21 9:14				U	mg/L		-0.0002	0.0002			
WG528671													
WG528671LRB	LRB	10/06/21 12:16				U	mg/L		-0.00044	0.00044			
WG528671LFB	LFB	10/06/21 12:17	HG211004-6	.002002		.00181	mg/L	90	85	115			
L68897-01LFM	LFM	10/06/21 12:35	HG211004-6	.002002	U	.00195	mg/L	97	85	115			
L68897-01LFMD	LFMD	10/06/21 12:38	HG211004-6	.002002	U	.00184	mg/L	92	85	115	6	20	

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529392													
WG529392LCSW1	LCSW	10/13/21 20:13	PCN62948	6		6.1	units	102	5.9	6.1			
L68919-02DUP	DUP	10/13/21 21:28			8	8	units				0	20	
WG529392LCSW4	LCSW	10/13/21 22:33	PCN62948	6		6.1	units	102	5.9	6.1			
WG529392LCSW7	LCSW	10/14/21 1:40	PCN62948	6		6.1	units	102	5.9	6.1			

OURAYSM

ACZ Project ID: **L68908**

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.

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

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528851													
WG528851PBW	PBW	10/06/21 15:50				U	mg/L		-2	2			
WG528851LCSW	LCSW	10/06/21 15:51	PCN64135	100		86	mg/L	86	80	120			
L68919-06DUP	DUP	10/06/21 16:10			410	406	mg/L				1	10	

Silver, potentially dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529159													
WG529159ICV	ICV	10/11/21 18:15	MS211001-2	.02		.01877	mg/L	94	90	110			
WG529159ICB	ICB	10/11/21 18:16				U	mg/L		-0.00022	0.00022			
WG529159LFB	LFB	10/11/21 18:18	MS210927-3	.01		.01064	mg/L	106	85	115			
WG528523PBW	PBW	10/11/21 18:20				U	mg/L		-0.0003	0.0003			
WG528501PBW	PBW	10/11/21 18:38				U	mg/L		-0.0003	0.0003			
L68836-01AS	AS	10/11/21 18:43	MS210927-3	.01	U	.00994	mg/L	99	70	130			
L68836-01ASD	ASD	10/11/21 18:45	MS210927-3	.01	U	.01033	mg/L	103	70	130	4	20	

Zinc, potentially dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529159													
WG529159ICV	ICV	10/11/21 18:15	MS211001-2	.05		.0502	mg/L	100	90	110			
WG529159ICB	ICB	10/11/21 18:16				U	mg/L		-0.0132	0.0132			
WG529159LFB	LFB	10/11/21 18:18	MS210927-3	.050075		.0575	mg/L	115	85	115			
WG528523PBW	PBW	10/11/21 18:20				U	mg/L		-0.018	0.018			
WG528501PBW	PBW	10/11/21 18:38				U	mg/L		-0.018	0.018			
L68836-01AS	AS	10/11/21 18:43	MS210927-3	.050075	.107	.1516	mg/L	89	70	130			
L68836-01ASD	ASD	10/11/21 18:45	MS210927-3	.050075	.107	.1493	mg/L	84	70	130	2	20	
WG528533PBW	PBW	10/11/21 18:48				U	mg/L		-0.018	0.018			

Ouray Silver Mines

ACZ Project ID: **L68908**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68908-01	WG529384	Cyanide, WAD	SM4500-CN I,E-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).
	WG528851	Residue, Non-Filterable (TSS) @105C	SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg

Ouray Silver Mines

ACZ Project ID: **L68908**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L68908

Date Received: 10/01/2021 09:58

Received By:

Date Printed: 10/4/2021

Receipt Verification

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

Samples/Containers

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

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?
-----	-----	-----	-----	-----
4716	5.1	<=6.0	15	Yes

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.

Ouray Silver Mines

ACZ Project ID: L68908

Date Received: 10/01/2021 09:58

Received By:

Date Printed: 10/4/2021

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).



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

Report to:

Name: Briana Greer		Address: 126 Akard Ave.
Company: Solid Solution Geosciences LLC		Montrose CO 81401
E-mail: briana@solidsolutiongeosciences.com.com		Telephone: 307-760-8838

Copy of Report to:

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

Invoice to:

Name: Ashlee Briggs	Address: PO BOX 564
Company: Ouray Silver Mines Inc.	Ouray, CO 81427
E-mail: abriggs@ouraysilvermines.com	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	☒
NO	☐

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	☒

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

Sampler's Name: Briana Greer **Sampler's Site Information** **State** CO **Zip code** 81427 **Time Zone** Mtn

*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

ANALYSES REQUESTED (attach list or use quote number)

Quote #: CDPS-Bimonth-VWV and CDPS-Quart-VWV						# of Containers	CDPS-Bimonth-VWV											
PO#:																		
Reporting state for compliance testing: CO																		
Check box if samples include NRC licensed material?					☐													
SAMPLE IDENTIFICATION		DATE:TIME	Matrix															
OF002A		9/30/2021	VVV	4	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
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					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	
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
<i>Brian A.</i>	9/30/21 1537	<i>[Signature]</i>	10/1/21 9:58

FRMAD050.06.14.14

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

November 23, 2021

Report to:

Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Environmental, Accounts Payable

Bill to:

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

Project ID:

ACZ Project ID: L69169

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 12, 2021. This project has been assigned to ACZ's project number, L69169. Please reference this number in all future inquiries.

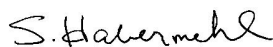
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L69169. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 December 23, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

November 23, 2021

Project ID:

ACZ Project ID: L69169

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 2 miscellaneous samples from Ouray Silver Mines on October 12, 2021. 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 L69169. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

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. (N1) TOTAL DISSOLVED SOLIDS

Oven range is 80 C to 91 C. Over the weekend, the oven had a minor low temperature out of range. When the oven temperature was checked on Monday 11/1/21, the min temp read at 76.7? C. The WG was removed from the oven on 11/1/21 when the oven was back in range.

Ouray Silver Mines

Project ID:

Sample ID: LOC20211006

ACZ Sample ID: **L69169-01**

Date Sampled: 10/06/21 15:30

Date Received: 10/12/21

Sample Matrix: Soil

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)								11/01/21 14:15	bls
Total Hot Plate Digestion (1312)	M3010A ICP-MS								10/29/21 9:50	bsu
Total Hot Plate Digestion (1312)	M3010A ICP								10/31/21 17:34	kja

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum (1312)	M6010D ICP	1	0.191	B	*	mg/L	0.05	0.25	11/02/21 18:03	kja
Antimony (1312)	M6020B ICP-MS	1	0.00832		*	mg/L	0.0004	0.002	11/03/21 17:52	bsu
Arsenic (1312)	M6020B ICP-MS	1	0.0132		*	mg/L	0.0002	0.001	11/03/21 17:52	bsu
Barium (1312)	M6020B ICP-MS	1	0.106		*	mg/L	0.0005	0.0025	11/03/21 17:52	bsu
Beryllium (1312)	M6020B ICP-MS	1	<0.00008	U	*	mg/L	0.00008	0.00025	11/03/21 17:52	bsu
Boron (1312)	M6010D ICP	1	<0.03	U	*	mg/L	0.03	0.1	11/02/21 5:00	kja
Cadmium (1312)	M6020B ICP-MS	1	<0.00005	U	*	mg/L	0.00005	0.00025	11/03/21 17:52	bsu
Calcium (1312)	M6010D ICP	1	14.0			mg/L	0.1	0.5	11/02/21 5:00	kja
Chromium (1312)	M6020B ICP-MS	1	<0.0005	U	*	mg/L	0.0005	0.002	11/03/21 17:52	bsu
Cobalt (1312)	M6020B ICP-MS	1	0.000063	B	*	mg/L	0.00005	0.00025	11/03/21 17:52	bsu
Copper (1312)	M6020B ICP-MS	1	<0.0008	U	*	mg/L	0.0008	0.002	11/03/21 17:52	bsu
Iron (1312)	M6010D ICP	1	<0.06	U	*	mg/L	0.06	0.15	11/02/21 5:00	kja
Lead (1312)	M6020B ICP-MS	1	0.00127		*	mg/L	0.0001	0.0005	11/03/21 17:52	bsu
Lithium (1312)	M6010D ICP	1	0.0081	B	*	mg/L	0.008	0.04	11/02/21 18:03	kja
Magnesium (1312)	M6010D ICP	1	1.00	B	*	mg/L	0.2	1	11/02/21 18:03	kja
Manganese (1312)	M6020B ICP-MS	1	0.0903		*	mg/L	0.0004	0.002	11/03/21 17:52	bsu
Mercury (1312)	M7470A CVAA	1	<0.0002	U	*	mg/L	0.0002	0.001	10/29/21 9:03	mlh
Molybdenum (1312)	M6020B ICP-MS	1	0.00943		*	mg/L	0.0002	0.0005	11/03/21 17:52	bsu
Nickel (1312)	M6020B ICP-MS	1	<0.0004	U	*	mg/L	0.0004	0.001	11/03/21 17:52	bsu
Potassium (1312)	M6010D ICP	1	7.06		*	mg/L	0.2	1	11/02/21 5:00	kja
Selenium (1312)	M6020B ICP-MS	1	0.00011	B	*	mg/L	0.0001	0.00025	11/03/21 17:52	bsu
Silica (1312)	M6010D ICP	1	3.7			mg/L	0.2	1	11/02/21 18:03	kja
Silver (1312)	M6020B ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	11/03/21 17:52	bsu
Sodium (1312)	M6010D ICP	1	2.59		*	mg/L	0.2	1	11/02/21 5:00	kja
Strontium (1312)	M6010D ICP	1	0.428			mg/L	0.009	0.045	11/02/21 18:03	kja
Thallium (1312)	M6020B ICP-MS	1	0.00013	B	*	mg/L	0.0001	0.0005	11/03/21 17:52	bsu
Tin (1312)	M6010D ICP	1	<0.04	U	*	mg/L	0.04	0.2	11/02/21 5:00	kja
Uranium (1312)	M6020B ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	11/03/21 17:52	bsu
Vanadium (1312)	M6020B ICP-MS	1	<0.0005	U	*	mg/L	0.0005	0.002	11/03/21 17:52	bsu
Zinc (1312)	M6020B ICP-MS	1	<0.006	U	*	mg/L	0.006	0.015	11/03/21 17:52	bsu

Soil Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
pH, (1312)	M9045D/M9040C									
pH			8.4			Units	0.1	0.1	11/23/21 0:00	ZLN
Temperature			20			Units	0.1	0.1	11/23/21 0:00	ZLN

Ouray Silver Mines

Project ID:

Sample ID: LOC20211006

ACZ Sample ID: **L69169-01**

Date Sampled: 10/06/21 15:30

Date Received: 10/12/21

Sample Matrix: Soil

Soil Preparation

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Synthetic Precip. Leaching Procedure	M1312								10/28/21 2:33	zln
Synthetic Precip. Leaching Procedure	M1312, DI Water								10/28/21 2:32	zln

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity (1312 DI)	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	26.8		*	mg/L	2	20	10/29/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	10/29/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	10/29/21 0:00	eep
Total Alkalinity		1	26.8		*	mg/L	2	20	10/29/21 0:00	eep
Bromide (1312-DI)	M300.0 - Ion Chromatography	1	<0.05	U	*	mg/L	0.05	0.25	11/12/21 1:32	krh
Carbon, total organic (TOC) (1312-DI)	SM5310B	1	2.0	B	*	mg/L	1	5	11/04/21 16:08	md
Chloride (1312-DI)	M300.0 - Ion Chromatography	1	0.64	B	*	mg/L	0.4	2	11/12/21 1:32	krh
Conductivity @25C (1312-DI)	SM2510B	1	123		*	umhos/cm	1	10	10/29/21 16:34	eep
Fluoride (1312 DI)	SM4500F-C	1	0.19	B	*	mg/L	0.15	0.35	11/04/21 16:44	eep
Hardness as CaCO ₃ (1312)	SM2340B - Calculation		39			mg/L	0.2	5	11/23/21 0:00	calc
Nitrate (1312 DI)	Calculation: NO ₃ NO ₂ minus NO ₂		0.487			mg/L	0.02	0.1	11/23/21 0:00	calc
Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	1	0.549		*	mg/L	0.02	0.1	10/30/21 1:20	pjb
Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	1	0.062		*	mg/L	0.01	0.05	10/30/21 1:20	pjb
Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion	1	0.915		*	mg/L	0.05	0.2	11/13/21 11:58	wtc
Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic Acid	1	0.019	B	*	mg/L	0.01	0.05	10/29/21 23:50	pjb
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)	1	0.104		*	mg/L	0.01	0.05	11/07/21 22:40	syw
Residue, Filterable (TDS) @180C (1312)	SM2540C	1	76		*	mg/L	20	40	10/29/21 17:58	eep
Residue, Non-Filter (TSS) @180C (1312-DI)	SM2540D	2	<10	U	*	mg/L	10	40	11/04/21 16:12	eep
Sulfate (1312-DI)	M300.0 - Ion Chromatography	1	21.9		*	mg/L	0.4	2	11/20/21 13:36	krh

Ouray Silver Mines

Project ID:

Sample ID: LOC20211008

ACZ Sample ID: **L69169-02**

Date Sampled: 10/08/21 15:30

Date Received: 10/12/21

Sample Matrix: Soil

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)								11/01/21 15:07	bls
Total Hot Plate Digestion (1312)	M3010A ICP-MS								10/29/21 10:41	bsu
Total Hot Plate Digestion (1312)	M3010A ICP								10/31/21 18:13	kja

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum (1312)	M6010D ICP	1	0.731		*	mg/L	0.05	0.25	11/02/21 18:11	kja
Antimony (1312)	M6020B ICP-MS	1	0.00882		*	mg/L	0.0004	0.002	11/03/21 17:55	bsu
Arsenic (1312)	M6020B ICP-MS	1	0.0345		*	mg/L	0.0002	0.001	11/03/21 17:55	bsu
Barium (1312)	M6020B ICP-MS	1	0.0665		*	mg/L	0.0005	0.0025	11/03/21 17:55	bsu
Beryllium (1312)	M6020B ICP-MS	1	<0.00008	U	*	mg/L	0.00008	0.00025	11/03/21 17:55	bsu
Boron (1312)	M6010D ICP	1	<0.03	U	*	mg/L	0.03	0.1	11/02/21 5:07	kja
Cadmium (1312)	M6020B ICP-MS	1	<0.00005	U	*	mg/L	0.00005	0.00025	11/03/21 17:55	bsu
Calcium (1312)	M6010D ICP	1	14.3			mg/L	0.1	0.5	11/02/21 5:07	kja
Chromium (1312)	M6020B ICP-MS	1	0.00193	B	*	mg/L	0.0005	0.002	11/03/21 17:55	bsu
Cobalt (1312)	M6020B ICP-MS	1	0.000081	B	*	mg/L	0.00005	0.00025	11/03/21 17:55	bsu
Copper (1312)	M6020B ICP-MS	1	0.00104	B	*	mg/L	0.0008	0.002	11/03/21 17:55	bsu
Iron (1312)	M6010D ICP	1	<0.06	U	*	mg/L	0.06	0.15	11/02/21 5:07	kja
Lead (1312)	M6020B ICP-MS	1	0.00531		*	mg/L	0.0001	0.0005	11/03/21 17:55	bsu
Lithium (1312)	M6010D ICP	1	<0.008	U	*	mg/L	0.008	0.04	11/02/21 18:11	kja
Magnesium (1312)	M6010D ICP	1	0.26	B	*	mg/L	0.2	1	11/02/21 18:11	kja
Manganese (1312)	M6020B ICP-MS	1	0.00705		*	mg/L	0.0004	0.002	11/03/21 17:55	bsu
Mercury (1312)	M7470A CVAA	1	<0.0002	U	*	mg/L	0.0002	0.001	10/29/21 9:04	mlh
Molybdenum (1312)	M6020B ICP-MS	1	0.0189		*	mg/L	0.0002	0.0005	11/03/21 17:55	bsu
Nickel (1312)	M6020B ICP-MS	1	<0.0004	U	*	mg/L	0.0004	0.001	11/03/21 17:55	bsu
Potassium (1312)	M6010D ICP	1	3.09		*	mg/L	0.2	1	11/02/21 5:07	kja
Selenium (1312)	M6020B ICP-MS	1	0.00030		*	mg/L	0.0001	0.00025	11/03/21 17:55	bsu
Silica (1312)	M6010D ICP	1	10.4			mg/L	0.2	1	11/02/21 18:11	kja
Silver (1312)	M6020B ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	11/03/21 17:55	bsu
Sodium (1312)	M6010D ICP	1	4.00		*	mg/L	0.2	1	11/02/21 5:07	kja
Strontium (1312)	M6010D ICP	1	0.348			mg/L	0.009	0.045	11/02/21 18:11	kja
Thallium (1312)	M6020B ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	11/03/21 17:55	bsu
Tin (1312)	M6010D ICP	1	<0.04	U	*	mg/L	0.04	0.2	11/02/21 5:07	kja
Uranium (1312)	M6020B ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	11/03/21 17:55	bsu
Vanadium (1312)	M6020B ICP-MS	1	0.00534		*	mg/L	0.0005	0.002	11/03/21 17:55	bsu
Zinc (1312)	M6020B ICP-MS	1	<0.006	U	*	mg/L	0.006	0.015	11/03/21 17:55	bsu

Soil Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
pH, (1312)	M9045D/M9040C									
pH			9.8			Units	0.1	0.1	11/23/21 0:00	ZLN
Temperature			19.8			Units	0.1	0.1	11/23/21 0:00	ZLN

Ouray Silver Mines

Project ID:

Sample ID: LOC20211008

ACZ Sample ID: **L69169-02**

Date Sampled: 10/08/21 15:30

Date Received: 10/12/21

Sample Matrix: Soil

Soil Preparation

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Synthetic Precip. Leaching Procedure	M1312								10/28/21 4:06	zln
Synthetic Precip. Leaching Procedure	M1312, DI Water								10/28/21 5:08	zln

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity (1312 DI)	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	19.4	B	*	mg/L	2	20	10/29/21 0:00	eep
Carbonate as CaCO ₃		1	2.6	B	*	mg/L	2	20	10/29/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	10/29/21 0:00	eep
Total Alkalinity		1	22.0		*	mg/L	2	20	10/29/21 0:00	eep
Bromide (1312-DI)	M300.0 - Ion Chromatography	1	0.276		*	mg/L	0.05	0.25	11/12/21 2:08	krh
Carbon, total organic (TOC) (1312-DI)	SM5310B	1	1.1	B	*	mg/L	1	5	11/04/21 16:26	md
Chloride (1312-DI)	M300.0 - Ion Chromatography	1	0.63	B	*	mg/L	0.4	2	11/12/21 2:08	krh
Conductivity @25C (1312-DI)	SM2510B	1	81		*	umhos/cm	1	10	10/29/21 16:43	eep
Fluoride (1312 DI)	SM4500F-C	1	<0.15	U	*	mg/L	0.15	0.35	11/04/21 16:52	eep
Hardness as CaCO ₃ (1312)	SM2340B - Calculation		37			mg/L	0.2	5	11/23/21 0:00	calc
Nitrate (1312 DI)	Calculation: NO ₃ NO ₂ minus NO ₂		1.08			mg/L	0.02	0.1	11/23/21 0:00	calc
Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	1	1.19		*	mg/L	0.02	0.1	10/30/21 1:21	pjb
Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	1	0.115		*	mg/L	0.01	0.05	10/30/21 1:21	pjb
Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion	1	0.898		*	mg/L	0.05	0.2	11/13/21 11:59	wtc
Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic Acid	1	0.013	B	*	mg/L	0.01	0.05	10/29/21 23:52	pjb
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)	1	0.018	B	*	mg/L	0.01	0.05	11/07/21 22:42	syw
Residue, Filterable (TDS) @180C (1312)	SM2540C	1	52		*	mg/L	20	40	10/29/21 18:01	eep
Residue, Non-Filter (TSS) @180C (1312-DI)	SM2540D	1	<5	U	*	mg/L	5	20	11/04/21 16:17	eep
Sulfate (1312-DI)	M300.0 - Ion Chromatography	1	6.59		*	mg/L	0.4	2	11/20/21 14:12	krh



Report Header Explanations

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

QC Sample Types

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

OURAYSM

ACZ Project ID: **L69169**

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
WG530612													
WG530612PBW	PBW	10/29/21 16:02				U	mg/L		-20	20			
WG530612LCSW2	LCSW	10/29/21 16:17	WC211028-8	820.0001		799.9	mg/L	98	90	110			
WG530376PBS	PBS	10/29/21 16:25				U	mg/L		-20	20			
L69171-01DUP	DUP	10/29/21 17:02			28.8	29.3	mg/L				2	20	
WG530612LCSW4	LCSW	10/29/21 17:26	WC211028-8	820.0001		804.7	mg/L	98	90	110			

Aluminum (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530787													
WG530787ICV	ICV	11/02/21 17:16	II211013-1	2		2.009	mg/L	100	90	110			
WG530787ICB	ICB	11/02/21 17:20				U	mg/L		-0.15	0.15			
WG530375PBS	PBS	11/02/21 17:44				U	mg/L		-0.15	0.15			
WG530375LFB1	LFB	11/02/21 17:48	II211024-2	1.0008		1.083	mg/L	108	80	120			
L68987-01MS	MS	11/02/21 17:55	II211024-2	1.0008	U	1.069	mg/L	107	75	125			
L68987-01MSD	MSD	11/02/21 17:59	II211024-2	1.0008	U	1.044	mg/L	104	75	125	2	20	
L69171-01DUP	DUP	11/02/21 18:19			.232	.176	mg/L				27	20	RA

Antimony (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.0201		.01943	mg/L	97	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0012	0.0012			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0012	0.0012			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.01		.01056	mg/L	106	80	120			
L69171-01DUP	DUP	11/03/21 18:01			.00778	.00789	mg/L				1	20	
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.01	.0594	.07272	mg/L	133	75	125			M3
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.01	.0594	.07102	mg/L	116	75	125	2	20	

Arsenic (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.05031	mg/L	101	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0006	0.0006			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0006	0.0006			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05005		.04966	mg/L	99	80	120			
L69171-01DUP	DUP	11/03/21 18:01			.0084	.00714	mg/L				16	20	
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05005	.00456	.05503	mg/L	101	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05005	.00456	.05419	mg/L	99	75	125	2	20	

OURAYSM

ACZ Project ID: **L69169**

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.

Barium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.05121	mg/L	102	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0015	0.0015			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0015	0.0015			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.049985		.04974	mg/L	100	80	120			
L69171-01DUP	DUP	11/03/21 18:01			.0809	.08014	mg/L				1	20	
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.049985	.0487	.10077	mg/L	104	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.049985	.0487	.09836	mg/L	99	75	125	2	20	

Beryllium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.048789	mg/L	98	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.00024	0.00024			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.00024	0.00024			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05005		.049251	mg/L	98	80	120			
L69171-01DUP	DUP	11/03/21 18:01			U	U	mg/L				0	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05005	U	.0506	mg/L	101	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05005	U	.05031	mg/L	101	75	125	1	20	

Boron (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530712													
WG530712ICV	ICV	11/02/21 4:14	II211013-1	2		2.037	mg/L	102	90	110			
WG530712ICB	ICB	11/02/21 4:17				U	mg/L		-0.09	0.09			
WG530375PBS	PBS	11/02/21 4:41				U	mg/L		-0.09	0.09			
WG530375LFB1	LFB	11/02/21 4:45	II211024-2	.5005		.493	mg/L	99	80	120			
L68987-01MS	MS	11/02/21 4:53	II211024-2	.5005	U	.517	mg/L	103	75	125			
L68987-01MSD	MSD	11/02/21 4:56	II211024-2	.5005	U	.495	mg/L	99	75	125	4	20	
L69171-01DUP	DUP	11/02/21 5:15			U	U	mg/L				0	20	RA

Bromide (1312-DI)

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531314													
WG531314ICV	ICV	11/09/21 2:06	WI211108-9	3.996		4.027	mg/L	101	90	110			
WG531314ICB	ICB	11/09/21 2:24				U	mg/L		-0.05	0.05			
WG531493													
WG531493LFB	LFB	11/12/21 0:57	WI210907-6	1.5		1.5	mg/L	100	90	110			
WG530376PBS	PBS	11/12/21 1:14				U	mg/L		-0.05	0.05			
L69169-01AS	AS	11/12/21 1:50	WI210907-6	1.5	U	1.269	mg/L	85	90	110			M2
L69171-01DUP	DUP	11/12/21 2:44			U	U	mg/L				0	20	RA

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ACZ Project ID: **L69169**

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.

Cadmium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.049851	mg/L	100	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.00015	0.00015			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.00015	0.00015			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05005		.048632	mg/L	97	80	120			
L69171-01DUP	DUP	11/03/21 18:01			U	U	mg/L				0	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05005	.000064	.049307	mg/L	98	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05005	.000064	.048533	mg/L	97	75	125	2	20	

Calcium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530712													
WG530712ICV	ICV	11/02/21 4:14	II211013-1	100		95.95	mg/L	96	90	110			
WG530712ICB	ICB	11/02/21 4:17				.16	mg/L		-0.3	0.3			
WG530375PBS	PBS	11/02/21 4:41				.14	mg/L		-0.3	0.3			
WG530375LFB1	LFB	11/02/21 4:45	II211024-2	67.98972		67.52	mg/L	99	80	120			
L68987-01MS	MS	11/02/21 4:53	II211024-2	67.98972	1.24	70.15	mg/L	101	75	125			
L68987-01MSD	MSD	11/02/21 4:56	II211024-2	67.98972	1.24	68.04	mg/L	98	75	125	3	20	
L69171-01DUP	DUP	11/02/21 5:15			12.2	12.4	mg/L				2	20	

Carbon, total organic (TOC) (1312-DI)

SM5310B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528980													
WG528980ICV	ICV	10/08/21 13:55	WI210921-3	100		100.9	mg/L	101	90	110			
WG528980ICB	ICB	10/08/21 14:03				U	mg/L		-3	3			
WG531038													
WG531038LFB	LFB	11/04/21 15:44	WI210921-5	49.94		50.1	mg/L	100	90	110			
WG530376PBS	PBS	11/04/21 15:57				U	mg/L		-3	3			
L69169-02AS	AS	11/04/21 16:37	WI210921-5	49.94	1.1	49.7	mg/L	97	90	110			
L69171-01DUP	DUP	11/04/21 17:01			1.3	1.2	mg/L				8	20	RA

Chloride (1312-DI)

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531314													
WG531314ICV	ICV	11/09/21 2:06	WI211108-9	19.96		20.29	mg/L	102	90	110			
WG531314ICB	ICB	11/09/21 2:24				U	mg/L		-0.4	0.4			
WG531493													
WG531493LFB	LFB	11/12/21 0:57	WI210907-6	30		31.31	mg/L	104	90	110			
WG530376PBS	PBS	11/12/21 1:14				U	mg/L		-0.4	0.4			
L69169-01AS	AS	11/12/21 1:50	WI210907-6	30	.64	31.83	mg/L	104	90	110			
L69171-01DUP	DUP	11/12/21 2:44			U	U	mg/L				0	20	RA

OURAYSM

ACZ Project ID: **L69169**

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 (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.04972	mg/L	99	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0015	0.0015			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0015	0.0015			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05		.04793	mg/L	96	80	120			
L69171-01DUP	DUP	11/03/21 18:01			U	U	mg/L				0	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05	U	.04817	mg/L	96	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05	U	.04763	mg/L	95	75	125	1	20	

Cobalt (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.053344	mg/L	107	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.00015	0.00015			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.00015	0.00015			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05005		.051725	mg/L	103	80	120			
L69171-01DUP	DUP	11/03/21 18:01			.000062	.00006	mg/L				3	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05005	.000078	.050539	mg/L	101	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05005	.000078	.049989	mg/L	100	75	125	1	20	

Conductivity @25C (1312-DI)

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530612													
WG530612PBW	PBW	10/29/21 16:02				U	umhos/cm		-10	10			
WG530612LCSW1	LCSW	10/29/21 16:04	PCN64228	1409		1497	umhos/cm	106	90	110			
WG530376PBS	PBS	10/29/21 16:25				U	umhos/cm		-4	4			
L69171-01DUP	DUP	10/29/21 17:02			106	110	umhos/cm				4	20	
WG530612LCSW3	LCSW	10/29/21 17:12	PCN64228	1409		1486	umhos/cm	105	90	110			

Copper (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.05225	mg/L	105	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0024	0.0024			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0024	0.0024			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05		.05092	mg/L	102	80	120			
L69171-01DUP	DUP	11/03/21 18:01			U	U	mg/L				0	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05	.00284	.0526	mg/L	100	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05	.00284	.05217	mg/L	99	75	125	1	20	

OURAYSM

ACZ Project ID: **L69169**

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.

Fluoride (1312 DI)

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531044													
WG531044ICV	ICV	11/04/21 14:16	WC211030-1	2.002		2.2	mg/L	110	90	110			
WG531044ICB	ICB	11/04/21 14:22				U	mg/L		-0.3	0.3			
WG531044LFB	LFB	11/04/21 14:30	WC210803-9	5.02		5.25	mg/L	105	90	110			
WG529263PBS	PBS	11/04/21 14:35				U	mg/L		-0.3	0.3			
WG530376PBS	PBS	11/04/21 16:28				U	mg/L		-0.3	0.3			
L69171-01AS	AS	11/04/21 17:08	WC210803-9	5.02	.2	5.49	mg/L	105	90	110			
L69171-01DUP	DUP	11/04/21 17:16			.2	.25	mg/L				22	20	RA

Iron (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530712													
WG530712ICV	ICV	11/02/21 4:14	II211013-1	2		2.002	mg/L	100	90	110			
WG530712ICB	ICB	11/02/21 4:17				U	mg/L		-0.18	0.18			
WG530375PBS	PBS	11/02/21 4:41				U	mg/L		-0.18	0.18			
WG530375LFB1	LFB	11/02/21 4:45	II211024-2	1.0001		1.037	mg/L	104	80	120			
L68987-01MS	MS	11/02/21 4:53	II211024-2	1.0001	U	1.065	mg/L	106	75	125			
L68987-01MSD	MSD	11/02/21 4:56	II211024-2	1.0001	U	1.022	mg/L	102	75	125	4	20	
L69171-01DUP	DUP	11/02/21 5:15			U	U	mg/L				0	20	RA

Lead (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.05248	mg/L	105	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0003	0.0003			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0003	0.0003			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05005		.04985	mg/L	100	80	120			
L69171-01DUP	DUP	11/03/21 18:01			.00397	.0019	mg/L				71	20	RD
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05005	.002	.05226	mg/L	100	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05005	.002	.05274	mg/L	101	75	125	1	20	

Lithium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530787													
WG530787ICV	ICV	11/02/21 17:16	II211013-1	2		1.975	mg/L	99	90	110			
WG530787ICB	ICB	11/02/21 17:20				U	mg/L		-0.024	0.024			
WG530375PBS	PBS	11/02/21 17:44				U	mg/L		-0.024	0.024			
WG530375LFB1	LFB	11/02/21 17:48	II211024-2	.999		.9982	mg/L	100	80	120			
L68987-01MS	MS	11/02/21 17:55	II211024-2	.999	U	1.012	mg/L	101	75	125			
L68987-01MSD	MSD	11/02/21 17:59	II211024-2	.999	U	.9902	mg/L	99	75	125	2	20	
L69171-01DUP	DUP	11/02/21 18:19			U	U	mg/L				0	20	RA

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ACZ Project ID: **L69169**

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.

Magnesium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530787													
WG530787ICV	ICV	11/02/21 17:16	II211013-1	100		96.62	mg/L	97	90	110			
WG530787ICB	ICB	11/02/21 17:20				U	mg/L		-0.6	0.6			
WG530375PBS	PBS	11/02/21 17:44				U	mg/L		-0.6	0.6			
WG530375LFB1	LFB	11/02/21 17:48	II211024-2	49.99828		50.41	mg/L	101	80	120			
L68987-01MS	MS	11/02/21 17:55	II211024-2	49.99828	.79	50.39	mg/L	99	75	125			
L68987-01MSD	MSD	11/02/21 17:59	II211024-2	49.99828	.79	49.49	mg/L	97	75	125	2	20	
L69171-01DUP	DUP	11/02/21 18:19			.86	.93	mg/L				8	20	RA

Manganese (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.05205	mg/L	104	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0012	0.0012			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0012	0.0012			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.0499		.05213	mg/L	104	80	120			
L69171-01DUP	DUP	11/03/21 18:01			.087	.10211	mg/L				16	20	
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.0499	.00189	.05341	mg/L	103	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.0499	.00189	.05259	mg/L	102	75	125	2	20	

Mercury (1312)

M7470A CVA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530504													
WG530504ICV	ICV	10/29/21 7:19	HG211004-3	.00501		.00491	mg/L	98	90	110			
WG530504ICB	ICB	10/29/21 7:20				U	mg/L		-0.0006	0.0006			
WG530581													
WG530375PBS	PBS	10/29/21 8:58				U	mg/L		-0.0006	0.0006			
WG530375LFB1	LFB	10/29/21 8:59	HG211015-3	.002002		.00185	mg/L	92	85	115			
L68987-01MS	MS	10/29/21 9:01	HG211015-3	.002002	U	.00183	mg/L	91	85	115			
L68987-01MSD	MSD	10/29/21 9:02	HG211015-3	.002002	U	.00185	mg/L	92	85	115	1	20	
L69171-01DUP	DUP	10/29/21 9:06			U	U	mg/L				0	20	RA

Molybdenum (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.01992		.01984	mg/L	100	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0006	0.0006			
WG530375PBS	PBS	11/03/21 17:47				.00038	mg/L		-0.0006	0.0006			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05005		.05003	mg/L	100	80	120			
L69171-01DUP	DUP	11/03/21 18:01			.0123	.01285	mg/L				4	20	
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05005	.12	.17202	mg/L	104	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05005	.12	.16892	mg/L	98	75	125	2	20	

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ACZ Project ID: **L69169**

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.

Nickel (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.05113	mg/L	102	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0012	0.0012			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0012	0.0012			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05		.04855	mg/L	97	80	120			
L69171-01DUP	DUP	11/03/21 18:01			U	U	mg/L				0	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05	U	.04884	mg/L	98	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05	U	.04774	mg/L	95	75	125	2	20	

Nitrate/Nitrite as N (1312-DI)

M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530633													
WG530633ICV	ICV	10/29/21 23:41	WI210904-1	2.4161		2.343	mg/L	97	90	110			
WG530633ICB	ICB	10/29/21 23:42				U	mg/L		-0.02	0.02			
WG530636													
WG530636LFB	LFB	10/30/21 1:15	WI211001-5	2		2.007	mg/L	100	90	110			
WG530376PBS	PBS	10/30/21 1:16				U	mg/L		-0.02	0.02			
L68987-01AS	AS	10/30/21 1:19	WI211001-5	2	U	1.99	mg/L	100	90	110			
L69171-01DUP	DUP	10/30/21 1:24			U	U	mg/L				0	20	RA

Nitrite as N (1312-DI)

M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530633													
WG530633ICV	ICV	10/29/21 23:41	WI210904-1	.6089		.602	mg/L	99	90	110			
WG530633ICB	ICB	10/29/21 23:42				U	mg/L		-0.01	0.01			
WG530636													
WG530636LFB	LFB	10/30/21 1:15	WI211001-5	1		1.054	mg/L	105	90	110			
WG530376PBS	PBS	10/30/21 1:16				U	mg/L		-0.01	0.01			
L68987-01AS	AS	10/30/21 1:19	WI211001-5	1	U	1.047	mg/L	105	90	110			
L69171-01DUP	DUP	10/30/21 1:24			U	U	mg/L				0	20	RA

Nitrogen, ammonia (1312-DI)

M350.1 Auto Salicylate w/gas diffusion

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531625													
WG531625ICV	ICV	11/13/21 10:59	WI211005-1	12		12.25	mg/L	102	90	110			
WG531625ICB	ICB	11/13/21 11:01				U	mg/L		-0.05	0.05			
WG531648													
WG531648LFB	LFB	11/13/21 11:52	WI210901-4	10		10.408	mg/L	104	90	110			
WG530376PBS	PBS	11/13/21 11:53				U	mg/L		-0.05	0.05			
L68987-01AS	AS	11/13/21 11:56	WI210901-4	10	U	10.275	mg/L	103	90	110			
L69171-01DUP	DUP	11/13/21 12:02			.86	.84	mg/L				2	20	

OURAYSM

ACZ Project ID: **L69169**

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.

Phosphorus, ortho dissolved (1312-DI) M365.1 - Automated Ascorbic Acid

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530632													
WG530632ICV	ICV	10/29/21 23:10	WI210401-4	.65228		.677	mg/L	104	90	110			
WG530632ICB	ICB	10/29/21 23:11				U	mg/L		-0.01	0.01			
WG530634													
WG530634LFB	LFB	10/29/21 23:47	WI211015-3	.5		.504	mg/L	101	90	110			
WG530376PBS	PBS	10/29/21 23:49				U	mg/L		-0.01	0.01			
L69169-01AS	AS	10/29/21 23:51	WI211015-3	.5	.019	.524	mg/L	101	90	110			
L69171-01DUP	DUP	10/29/21 23:54			U	U	mg/L				0	20	RA

Phosphorus, Total (1312-DI) M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531168													
WG531168ICV	ICV	11/07/21 17:34	WI211018-4	.65228		.688	mg/L	105	90	110			
WG531168ICB	ICB	11/07/21 17:37				U	mg/L		-0.01	0.01			
WG531173													
WG531173ICV	ICV	11/07/21 22:35	WI211018-4	.65228		.693	mg/L	106	90	110			
WG531173ICB	ICB	11/07/21 22:37				U	mg/L		-0.01	0.01			
WG530717PBS	PBS	11/07/21 22:38				U	mg/L		-0.01	0.01			
WG530717LFB	LFB	11/07/21 22:39	WI211030-2	.5		.5	mg/L	100	90	110			
L69169-01MS	MS	11/07/21 22:41	WI211030-2	.5	.104	.616	mg/L	102	90	110			
L69169-02DUP	DUP	11/07/21 22:43			.018	.019	mg/L				5	20	RA

Potassium (1312) M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530712													
WG530712ICV	ICV	11/02/21 4:14	II211013-1	20		19.39	mg/L	97	90	110			
WG530712ICB	ICB	11/02/21 4:17				.3	mg/L		-0.6	0.6			
WG530375PBS	PBS	11/02/21 4:41				.29	mg/L		-0.6	0.6			
WG530375LFB1	LFB	11/02/21 4:45	II211024-2	99.96008		97.75	mg/L	98	80	120			
L68987-01MS	MS	11/02/21 4:53	II211024-2	99.96008	1.9	101.4	mg/L	100	75	125			
L68987-01MSD	MSD	11/02/21 4:56	II211024-2	99.96008	1.9	98.62	mg/L	97	75	125	3	20	
L69171-01DUP	DUP	11/02/21 5:15			6.51	6.59	mg/L				1	20	

Residue, Filterable (TDS) @180C (1312) SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530627													
WG530627PBW	PBW	10/29/21 17:50				U	mg/L		-20	20			
WG530627LCSW	LCSW	10/29/21 17:52	PCN63840	1000		982	mg/L	98	80	120			
WG530376PBS	PBS	10/29/21 17:55				U	mg/L		-40	40			
L69171-01DUP	DUP	10/29/21 18:07			62	60	mg/L				3	10	N1 RA

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ACZ Project ID: **L69169**

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.

Residue, Non-Filter (TSS) @180C (1312-DI) SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531061													
WG531061PBW	PBW	11/04/21 16:00				U	mg/L		-5	5			
WG531061LCSW	LCSW	11/04/21 16:04	PCN64718	100		98	mg/L	98	80	120			
WG530376PBS	PBS	11/04/21 16:08				U	mg/L		-15	15			
L69171-01DUP	DUP	11/04/21 16:25			U	U	mg/L				0	10	RA

Selenium (1312) M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.04963	mg/L	99	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0003	0.0003			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0003	0.0003			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05		.04768	mg/L	95	80	120			
L69171-01DUP	DUP	11/03/21 18:01			U	U	mg/L				0	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05	.00013	.04868	mg/L	97	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05	.00013	.04922	mg/L	98	75	125	1	20	

Silica (1312) M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530787													
WG530787ICV	ICV	11/02/21 17:16	II211013-1	42.8		43.64	mg/L	102	90	110			
WG530787ICB	ICB	11/02/21 17:20				U	mg/L		-0.6	0.6			
WG530375PBS	PBS	11/02/21 17:44				U	mg/L		-0.6	0.6			
WG530375LFB1	LFB	11/02/21 17:48	II211024-2	21.404		21.38	mg/L	100	80	120			
L68987-01MS	MS	11/02/21 17:55	II211024-2	21.404	2.6	22.33	mg/L	92	75	125			
L68987-01MSD	MSD	11/02/21 17:59	II211024-2	21.404	2.6	21.7	mg/L	89	75	125	3	20	
L69171-01DUP	DUP	11/02/21 18:19			3.4	3.04	mg/L				11	20	

Silver (1312) M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.02		.01846	mg/L	92	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0003	0.0003			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0003	0.0003			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.01		.00895	mg/L	90	80	120			
L69171-01DUP	DUP	11/03/21 18:01			U	U	mg/L				0	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.01	U	.00902	mg/L	90	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.01	U	.00892	mg/L	89	75	125	1	20	

Sodium (1312) M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530712													
WG530712ICV	ICV	11/02/21 4:14	II211013-1	100		95.49	mg/L	95	90	110			
WG530712ICB	ICB	11/02/21 4:17				U	mg/L		-0.6	0.6			
WG530375PBS	PBS	11/02/21 4:41				U	mg/L		-0.6	0.6			
WG530375LFB1	LFB	11/02/21 4:45	II211024-2	100.007		96.4	mg/L	96	80	120			
L68987-01MS	MS	11/02/21 4:53	II211024-2	100.007	21.3	119.3	mg/L	98	75	125			
L68987-01MSD	MSD	11/02/21 4:56	II211024-2	100.007	21.3	116.2	mg/L	95	75	125	3	20	
L69171-01DUP	DUP	11/02/21 5:15			1.23	1.26	mg/L				2	20	RA

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ACZ Project ID: **L69169**

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.

Strontium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530787													
WG530787ICV	ICV	11/02/21 17:16	II211013-1	2		1.953	mg/L	98	90	110			
WG530787ICB	ICB	11/02/21 17:20				U	mg/L		-0.027	0.027			
WG530375PBS	PBS	11/02/21 17:44				U	mg/L		-0.027	0.027			
WG530375LFB1	LFB	11/02/21 17:48	II211024-2	.5005		.5539	mg/L	111	80	120			
L68987-01MS	MS	11/02/21 17:55	II211024-2	.5005	.0161	.5591	mg/L	108	75	125			
L68987-01MSD	MSD	11/02/21 17:59	II211024-2	.5005	.0161	.5518	mg/L	107	75	125	1	20	
L69171-01DUP	DUP	11/02/21 18:19			.377	.3967	mg/L				5	20	

Sulfate (1312-DI)

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531660													
WG531660ICV	ICV	11/12/21 16:42	WI211108-9	51.15		51.15	mg/L	100	90	110			
WG531660ICB	ICB	11/12/21 16:59				U	mg/L		-0.4	0.4			
WG532073													
WG532073LFB	LFB	11/20/21 13:00	WI211112-6	30		31.7	mg/L	106	90	110			
WG530376PBS	PBS	11/20/21 13:18				U	mg/L		-0.4	0.4			
L69169-01AS	AS	11/20/21 13:54	WI211112-6	30	21.9	53.56	mg/L	106	90	110			
L69171-01DUP	DUP	11/20/21 14:48			18.8	19.23	mg/L				2	20	

Thallium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.0541	mg/L	108	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0003	0.0003			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0003	0.0003			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05		.0488	mg/L	98	80	120			
L69171-01DUP	DUP	11/03/21 18:01			.00013	.00013	mg/L				0	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05	U	.05085	mg/L	102	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05	U	.05002	mg/L	100	75	125	2	20	

Tin (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530712													
WG530712ICV	ICV	11/02/21 4:14	II211013-1	2		2.024	mg/L	101	90	110			
WG530712ICB	ICB	11/02/21 4:17				U	mg/L		-0.12	0.12			
WG530375PBS	PBS	11/02/21 4:41				U	mg/L		-0.12	0.12			
WG530375LFB1	LFB	11/02/21 4:45	II211024-2	1.002		.981	mg/L	98	80	120			
L68987-01MS	MS	11/02/21 4:53	II211024-2	1.002	U	1.024	mg/L	102	75	125			
L68987-01MSD	MSD	11/02/21 4:56	II211024-2	1.002	U	.991	mg/L	99	75	125	3	20	
L69171-01DUP	DUP	11/02/21 5:15			U	U	mg/L				0	20	RA

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ACZ Project ID: **L69169**

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.

Uranium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.04988	mg/L	100	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0003	0.0003			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0003	0.0003			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05		.04854	mg/L	97	80	120			
L69171-01DUP	DUP	11/03/21 18:01			U	U	mg/L				0	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05	U	.04971	mg/L	99	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05	U	.04961	mg/L	99	75	125	0	20	

Vanadium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.04832	mg/L	97	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0015	0.0015			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0015	0.0015			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05		.04794	mg/L	96	80	120			
L69171-01DUP	DUP	11/03/21 18:01			U	U	mg/L				0	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05	U	.04879	mg/L	98	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05	U	.04824	mg/L	96	75	125	1	20	

Zinc (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.0492	mg/L	98	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.018	0.018			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.018	0.018			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.050075		.0528	mg/L	105	80	120			
L69171-01DUP	DUP	11/03/21 18:01			U	U	mg/L				0	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.050075	U	.0538	mg/L	107	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.050075	U	.0537	mg/L	107	75	125	0	20	

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L69169-01	WG530787	Aluminum (1312)	M6010D ICP	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).
	WG530915	Antimony (1312)	M6020B ICP-MS	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.
			M6020B ICP-MS	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
		Arsenic (1312)	M6020B ICP-MS	ZH	Serial Dilution exceeded the acceptance criteria. Matrix interference [physical or chemical] is suspected.
		Barium (1312)	M6020B ICP-MS	ZH	Serial Dilution exceeded the acceptance criteria. Matrix interference [physical or chemical] is suspected.
		Beryllium (1312)	M6020B ICP-MS	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).
	WG530612	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG530712	Boron (1312)	M6010D ICP	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).
	WG531493	Bromide (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	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).
	WG530915	Cadmium (1312)	M6020B ICP-MS	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).
	WG531038	Carbon, total organic (TOC) (1312-DI)	SM5310B	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			SM5310B	Q6	Sample was received above recommended temperature.
			SM5310B	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).
	WG530612	Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG531493	Chloride (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography	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).
	WG530915	Chromium (1312)	M6020B ICP-MS	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).
		Cobalt (1312)	M6020B ICP-MS	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).
	WG530612	Conductivity @25C (1312-DI)	SM2510B	Q6	Sample was received above recommended temperature.
	WG530915	Copper (1312)	M6020B ICP-MS	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).
	WG531044	Fluoride (1312 DI)	SM4500F-C	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).
	WG530612	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
	WG530712	Iron (1312)	M6010D ICP	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).
	WG530915	Lead (1312)	M6020B ICP-MS	RD	For a solid matrix, the duplicate RPD (spike or matrix) exceeded the control limit, which is attributable to the non-homogeneity of the sample.
			M6020B ICP-MS	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
	WG530787	Lithium (1312)	M6010D ICP	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).
		Magnesium (1312)	M6010D ICP	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).
	WG530915	Manganese (1312)	M6020B ICP-MS	ZH	Serial Dilution exceeded the acceptance criteria. Matrix interference [physical or chemical] is suspected.
	WG530581	Mercury (1312)	M7470A CVAA	Q6	Sample was received above recommended temperature.
			M7470A CVAA	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).
	WG530915	Molybdenum (1312)	M6020B ICP-MS	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
		Nickel (1312)	M6020B ICP-MS	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).
	WG530636	Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	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).
		Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	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).
	WG531648	Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M350.1 Auto Salicylate w/gas diffusion	Q6	Sample was received above recommended temperature.
	WG530634	Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M365.1 - Automated Ascorbic	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).
	WG531173	Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
			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).
	WG530712	Potassium (1312)	M6010D ICP	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
	WG530627	Residue, Filterable (TDS) @180C (1312)	SM2540C	N1	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).
	WG531061	Residue, Non-Filter (TSS) @180C (1312- DI)	SM2540D	DJ	Sample dilution required due to insufficient sample.
			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
	WG530915	Selenium (1312)	M6020B ICP-MS	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).
		Silver (1312)	M6020B ICP-MS	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).
	WG530712	Sodium (1312)	M6010D ICP	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).
	WG532073	Sulfate (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
	WG530915	Thallium (1312)	M6020B ICP-MS	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).
	WG530712	Tin (1312)	M6010D ICP	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).
	WG530612	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG530915	Uranium (1312)	M6020B ICP-MS	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).
		Vanadium (1312)	M6020B ICP-MS	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).
		Zinc (1312)	M6020B ICP-MS	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).

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L69169-02	WG530787	Aluminum (1312)	M6010D ICP	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).
	WG530915	Antimony (1312)	M6020B ICP-MS	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.
			M6020B ICP-MS	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
		Arsenic (1312)	M6020B ICP-MS	ZH	Serial Dilution exceeded the acceptance criteria. Matrix interference [physical or chemical] is suspected.
		Barium (1312)	M6020B ICP-MS	ZH	Serial Dilution exceeded the acceptance criteria. Matrix interference [physical or chemical] is suspected.
		Beryllium (1312)	M6020B ICP-MS	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).
	WG530612	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG530712	Boron (1312)	M6010D ICP	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).
	WG531493	Bromide (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	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).
	WG530915	Cadmium (1312)	M6020B ICP-MS	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).
	WG531038	Carbon, total organic (TOC) (1312-DI)	SM5310B	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			SM5310B	Q6	Sample was received above recommended temperature.
			SM5310B	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).
	WG530612	Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG531493	Chloride (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography	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).
	WG530915	Chromium (1312)	M6020B ICP-MS	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).
		Cobalt (1312)	M6020B ICP-MS	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).
	WG530612	Conductivity @25C (1312-DI)	SM2510B	Q6	Sample was received above recommended temperature.
	WG530915	Copper (1312)	M6020B ICP-MS	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).
	WG531044	Fluoride (1312 DI)	SM4500F-C	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).
	WG530612	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.

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	WG530712	Iron (1312)	M6010D ICP	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).
	WG530915	Lead (1312)	M6020B ICP-MS	RD	For a solid matrix, the duplicate RPD (spike or matrix) exceeded the control limit, which is attributable to the non-homogeneity of the sample.
			M6020B ICP-MS	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
	WG530787	Lithium (1312)	M6010D ICP	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).
		Magnesium (1312)	M6010D ICP	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).
	WG530915	Manganese (1312)	M6020B ICP-MS	ZH	Serial Dilution exceeded the acceptance criteria. Matrix interference [physical or chemical] is suspected.
	WG530581	Mercury (1312)	M7470A CVAA	Q6	Sample was received above recommended temperature.
			M7470A CVAA	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).
	WG530915	Molybdenum (1312)	M6020B ICP-MS	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
		Nickel (1312)	M6020B ICP-MS	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).
	WG530636	Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	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).
		Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	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).
	WG531648	Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M350.1 Auto Salicylate w/gas diffusion	Q6	Sample was received above recommended temperature.
	WG530634	Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M365.1 - Automated Ascorbic	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).
	WG531173	Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.

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ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
			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).
	WG530712	Potassium (1312)	M6010D ICP	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
	WG530627	Residue, Filterable (TDS) @180C (1312)	SM2540C	N1	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).
	WG531061	Residue, Non-Filter (TSS) @180C (1312- DI)	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
	WG530915	Selenium (1312)	M6020B ICP-MS	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).
		Silver (1312)	M6020B ICP-MS	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).
	WG530712	Sodium (1312)	M6010D ICP	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).
	WG532073	Sulfate (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
	WG530915	Thallium (1312)	M6020B ICP-MS	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).
	WG530712	Tin (1312)	M6010D ICP	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).
	WG530612	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG530915	Uranium (1312)	M6020B ICP-MS	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).
		Vanadium (1312)	M6020B ICP-MS	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).
		Zinc (1312)	M6020B ICP-MS	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).

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Wet Chemistry

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Bicarbonate as CaCO ₃	SM2320B - Titration
Bromide (1312-DI)	M300.0 - Ion Chromatography
Carbonate as CaCO ₃	SM2320B - Titration
Chloride (1312-DI)	M300.0 - Ion Chromatography
Conductivity @25C (1312-DI)	SM2510B
Fluoride (1312 DI)	SM4500F-C
Hydroxide as CaCO ₃	SM2320B - Titration
Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction
Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction
Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion
Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic Acid
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)
Residue, Filterable (TDS) @180C (1312)	SM2540C
Residue, Non-Filter (TSS) @180C (1312-DI)	SM2540D
Sulfate (1312-DI)	M300.0 - Ion Chromatography
Total Alkalinity	SM2320B - Titration

Ouray Silver Mines

ACZ Project ID: L69169

Date Received: 10/12/2021 10:53

Received By:

Date Printed: 10/13/2021

Receipt Verification

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

Samples/Containers

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

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?
NA36183	17.5	NA	15	Yes

Was ice present in the shipment container(s)?

No - Wet or gel ice was not 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.

Ouray Silver Mines

ACZ Project ID: L69169

Date Received: 10/12/2021 10:53

Received By:

Date Printed: 10/13/2021

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).

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

Report to:

Name: Briana Greer		Address: 112 Village Square W Suite 205.
Company: Solid Solution Geosciences LLC		Ridgway CO, 81432
E-mail: briana@solidsolutiongeosciences.com		Telephone: 307-760-8838

Copy of Report to:

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

Invoice to:

Name: Ashlee Briggs		Address: PO BOX 564
Company: Ouray Silver Mines Inc.		Ouray, CO 81427
E-mail: abriggs@ouraysilvermines.com		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	☒
NO	☐

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 ☒

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

Sampler's Name: Todd Tesse Sampler's Site Information State CO Zip code 81427 Time Zone Mtn

*Sampler's Signature: Not Available

*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

ANALYSES REQUESTED (attach list or use quote number)

[illegible]

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

REMARKS

Original samples collected by Todd Jesse on 10/6/21 and 10/8/21. Samples retrieved internally from OSMI on 10/11/21 by Joshua Moore.

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

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Michelle K. Kiffin for Todd Jesse	10/11/21 14:35	Johna Moore	10/11/21 14:35
Johna Moore	10/11/21 15:22	D	10/12/21 10:53

December 03, 2021

Report to:

Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Environmental, Accounts Payable

Bill to:

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

Project ID:

ACZ Project ID: L69171

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 12, 2021. This project has been assigned to ACZ's project number, L69171. Please reference this number in all future inquiries.

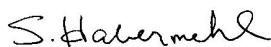
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L69171. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 January 02, 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

December 03, 2021

Project ID:

ACZ Project ID: L69171

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 1 miscellaneous sample from Ouray Silver Mines on October 12, 2021. The sample was received in good condition. Upon receipt, the sample custodian removed the sample from the cooler, inspected the contents, and logged the sample into ACZ's computerized Laboratory Information Management System (LIMS). The sample was assigned ACZ LIMS project number L69171. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

This sample was 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. (N1) L69171-01/TOTAL DISSOLVED SOLIDS

Oven range is 80 C to 91 C. Over the weekend, the oven had a minor low temperature out of range. When the oven temperature was checked on Monday 11/1/21, the min temp read at 76.7? C. The WG was removed from the oven on 11/1/21 when the oven was back in range.

2. (N1) Neutralization-Potential-Modified and Pyritic sulfur used for ABBA calculations.

Ouray Silver Mines

Project ID:

Sample ID: RT20211005

ACZ Sample ID: **L69171-01**

Date Sampled: 10/05/21 15:30

Date Received: 10/12/21

Sample Matrix: Soil

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)								11/01/21 15:59	bls
Total Hot Plate Digestion (1312)	M3010A ICP								10/31/21 18:51	kja
Total Hot Plate Digestion (1312)	M3010A ICP-MS								10/29/21 11:33	bsu

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum (1312)	M6010D ICP	1	0.232	B	*	mg/L	0.05	0.25	11/02/21 18:15	kja
Antimony (1312)	M6020B ICP-MS	1	0.00778		*	mg/L	0.0004	0.002	11/03/21 17:57	bsu
Arsenic (1312)	M6020B ICP-MS	1	0.00840		*	mg/L	0.0002	0.001	11/03/21 17:57	bsu
Barium (1312)	M6020B ICP-MS	1	0.0809		*	mg/L	0.0005	0.0025	11/03/21 17:57	bsu
Beryllium (1312)	M6020B ICP-MS	1	<0.00008	U	*	mg/L	0.00008	0.00025	11/03/21 17:57	bsu
Boron (1312)	M6010D ICP	1	<0.03	U	*	mg/L	0.03	0.1	11/02/21 5:11	kja
Cadmium (1312)	M6020B ICP-MS	1	<0.00005	U	*	mg/L	0.00005	0.00025	11/03/21 17:57	bsu
Calcium (1312)	M6010D ICP	1	12.2			mg/L	0.1	0.5	11/02/21 5:11	kja
Chromium (1312)	M6020B ICP-MS	1	<0.0005	U	*	mg/L	0.0005	0.002	11/03/21 17:57	bsu
Cobalt (1312)	M6020B ICP-MS	1	0.000062	B	*	mg/L	0.00005	0.00025	11/03/21 17:57	bsu
Copper (1312)	M6020B ICP-MS	1	<0.0008	U	*	mg/L	0.0008	0.002	11/03/21 17:57	bsu
Iron (1312)	M6010D ICP	1	<0.06	U	*	mg/L	0.06	0.15	11/02/21 5:11	kja
Lead (1312)	M6020B ICP-MS	1	0.00397		*	mg/L	0.0001	0.0005	11/03/21 17:57	bsu
Lithium (1312)	M6010D ICP	1	<0.008	U	*	mg/L	0.008	0.04	11/02/21 18:15	kja
Magnesium (1312)	M6010D ICP	1	0.86	B	*	mg/L	0.2	1	11/02/21 18:15	kja
Manganese (1312)	M6020B ICP-MS	1	0.0870		*	mg/L	0.0004	0.002	11/03/21 17:57	bsu
Mercury (1312)	M7470A CVAA	1	<0.0002	U	*	mg/L	0.0002	0.001	10/29/21 9:05	mlh
Molybdenum (1312)	M6020B ICP-MS	1	0.0123		*	mg/L	0.0002	0.0005	11/03/21 17:57	bsu
Nickel (1312)	M6020B ICP-MS	1	<0.0004	U	*	mg/L	0.0004	0.001	11/03/21 17:57	bsu
Potassium (1312)	M6010D ICP	1	6.51		*	mg/L	0.2	1	11/02/21 5:11	kja
Selenium (1312)	M6020B ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.00025	11/03/21 17:57	bsu
Silica (1312)	M6010D ICP	1	3.4			mg/L	0.2	1	11/02/21 18:15	kja
Silver (1312)	M6020B ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	11/03/21 17:57	bsu
Sodium (1312)	M6010D ICP	1	1.23		*	mg/L	0.2	1	11/02/21 5:11	kja
Strontium (1312)	M6010D ICP	1	0.377			mg/L	0.009	0.045	11/02/21 18:15	kja
Thallium (1312)	M6020B ICP-MS	1	0.00013	B	*	mg/L	0.0001	0.0005	11/03/21 17:57	bsu
Tin (1312)	M6010D ICP	1	<0.04	U	*	mg/L	0.04	0.2	11/02/21 5:11	kja
Uranium (1312)	M6020B ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	11/03/21 17:57	bsu
Vanadium (1312)	M6020B ICP-MS	1	<0.0005	U	*	mg/L	0.0005	0.002	11/03/21 17:57	bsu
Zinc (1312)	M6020B ICP-MS	1	<0.006	U	*	mg/L	0.006	0.015	11/03/21 17:57	bsu

Ouray Silver Mines

Project ID:

Sample ID: RT20211005

ACZ Sample ID: **L69171-01**

Date Sampled: 10/05/21 15:30

Date Received: 10/12/21

Sample Matrix: Soil

Soil Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acid Generation Potential (calc)	M600/2-78-054 1.3	1	13.4		*	t CaCO3/Kt	0.31	3.1	12/01/21 17:00	jpb
Acid Neutralization Potential (calc)	M600/2-78-054 1.3	1	84.0		*	t CaCO3/Kt	1	5	12/01/21 17:00	jpb
Acid-Base Potential (calc)	M600/2-78-054 1.3	1	70.6		*	t CaCO3/Kt			12/01/21 17:00	jpb
Neutralization Potential as CaCO3 pH, (1312)	M600/2-78-054 3.2.3 - Modified (No Heat) M9045D/M9040C	1	8.4		*	%	0.1	0.5	11/18/21 16:06	jpb
pH			8.8			Units	0.1	0.1	12/02/21 0:00	ZLN
Temperature			19.9			Units	0.1	0.1	12/02/21 0:00	ZLN
Sulfur Forms	M600/2-78-054 3.2.4-MOD									
Sulfur HCl Residue		1	0.45		*	%	0.01	0.1	11/23/21 0:00	jpb
Sulfur HNO3 Residue		1	0.02	B	*	%	0.01	0.1	11/23/21 0:00	jpb
Sulfur Organic Residual		1	0.02	B	*	%	0.01	0.1	11/23/21 0:00	jpb
Sulfur Pyritic Sulfide		1	0.43		*	%	0.01	0.1	11/23/21 0:00	jpb
Sulfur Sulfate		1	0.08	B	*	%	0.01	0.1	11/23/21 0:00	jpb
Sulfur Total		1	0.53		*	%	0.01	0.1	11/23/21 0:00	jpb
Total Sulfur minus Sulfate		1	0.45		*	%	0.01	0.1	11/23/21 0:00	jpb

Soil Preparation

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972								11/11/21 15:00	jpb
Crush and Pulverize (Ring & Puck)	EPA-600/2-78-054 3.1.3								11/17/21 16:00	jpb
Synthetic Precip. Leaching Procedure	M1312								10/28/21 5:40	zln
Synthetic Precip. Leaching Procedure	M1312, DI Water								10/28/21 7:43	zln

Ouray Silver Mines

Project ID:

Sample ID: RT20211005

ACZ Sample ID: **L69171-01**

Date Sampled: 10/05/21 15:30

Date Received: 10/12/21

Sample Matrix: Soil

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity (1312 DI)	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	28.3		*	mg/L	2	20	10/29/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	10/29/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	10/29/21 0:00	eep
Total Alkalinity		1	28.8		*	mg/L	2	20	10/29/21 0:00	eep
Bromide (1312-DI)	M300.0 - Ion Chromatography	1	<0.05	U	*	mg/L	0.05	0.25	11/12/21 2:26	krh
Carbon, total organic (TOC) (1312-DI)	SM5310B	1	1.3	B	*	mg/L	1	5	11/04/21 16:50	md
Chloride (1312-DI)	M300.0 - Ion Chromatography	1	<0.4	U	*	mg/L	0.4	2	11/12/21 2:26	krh
Conductivity @25C (1312-DI)	SM2510B	1	106		*	umhos/cm	1	10	10/29/21 16:52	eep
Fluoride (1312 DI)	SM4500F-C	1	0.20	B	*	mg/L	0.15	0.35	11/04/21 17:00	eep
Hardness as CaCO ₃ (1312)	SM2340B - Calculation		34.0			mg/L	0.2	5	12/02/21 0:00	calc
Nitrate (1312 DI)	Calculation: NO ₃ NO ₂ minus NO ₂		<0.02	U		mg/L	0.02	0.1	12/02/21 0:00	calc
Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	1	<0.02	U	*	mg/L	0.02	0.1	10/30/21 1:23	pjb
Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	10/30/21 1:23	pjb
Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion	1	0.860		*	mg/L	0.05	0.2	11/13/21 12:01	wtc
Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic Acid	1	<0.01	U	*	mg/L	0.01	0.05	10/29/21 23:53	pjb
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)	1	0.104		*	mg/L	0.01	0.05	11/07/21 22:44	syw
Residue, Filterable (TDS) @180C (1312)	SM2540C	1	62		*	mg/L	20	40	10/29/21 18:04	eep
Residue, Non-Filter (TSS) @180C (1312-DI)	SM2540D	1	<5	U	*	mg/L	5	20	11/04/21 16:21	eep
Sulfate (1312-DI)	M300.0 - Ion Chromatography	1	18.8		*	mg/L	0.4	2	11/20/21 14:30	krh


Report Header Explanations

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

QC Sample Types

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

OURAYSM

ACZ Project ID: **L69171**

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
WG530612													
WG530612PBW	PBW	10/29/21 16:02				U	mg/L		-20	20			
WG530612LCSW2	LCSW	10/29/21 16:17	WC211028-8	820.0001		799.9	mg/L	98	90	110			
WG530376PBS	PBS	10/29/21 16:25				U	mg/L		-20	20			
L69171-01DUP	DUP	10/29/21 17:02			28.8	29.3	mg/L				2	20	
WG530612LCSW4	LCSW	10/29/21 17:26	WC211028-8	820.0001		804.7	mg/L	98	90	110			

Aluminum (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530787													
WG530787ICV	ICV	11/02/21 17:16	II211013-1	2		2.009	mg/L	100	90	110			
WG530787ICB	ICB	11/02/21 17:20				U	mg/L		-0.15	0.15			
WG530375PBS	PBS	11/02/21 17:44				U	mg/L		-0.15	0.15			
WG530375LFB1	LFB	11/02/21 17:48	II211024-2	1.0008		1.083	mg/L	108	80	120			
L68987-01MS	MS	11/02/21 17:55	II211024-2	1.0008	U	1.069	mg/L	107	75	125			
L68987-01MSD	MSD	11/02/21 17:59	II211024-2	1.0008	U	1.044	mg/L	104	75	125	2	20	
L69171-01DUP	DUP	11/02/21 18:19			.232	.176	mg/L				27	20	RA

Antimony (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.0201		.01943	mg/L	97	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0012	0.0012			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0012	0.0012			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.01		.01056	mg/L	106	80	120			
L69171-01DUP	DUP	11/03/21 18:01			.00778	.00789	mg/L				1	20	
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.01	.0594	.07272	mg/L	133	75	125			M3
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.01	.0594	.07102	mg/L	116	75	125	2	20	

Arsenic (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.05031	mg/L	101	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0006	0.0006			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0006	0.0006			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05005		.04966	mg/L	99	80	120			
L69171-01DUP	DUP	11/03/21 18:01			.0084	.00714	mg/L				16	20	
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05005	.00456	.05503	mg/L	101	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05005	.00456	.05419	mg/L	99	75	125	2	20	

OURAYSM

ACZ Project ID: **L69171**

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.

Barium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.05121	mg/L	102	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0015	0.0015			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0015	0.0015			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.049985		.04974	mg/L	100	80	120			
L69171-01DUP	DUP	11/03/21 18:01			.0809	.08014	mg/L				1	20	
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.049985	.0487	.10077	mg/L	104	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.049985	.0487	.09836	mg/L	99	75	125	2	20	

Beryllium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.048789	mg/L	98	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.00024	0.00024			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.00024	0.00024			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05005		.049251	mg/L	98	80	120			
L69171-01DUP	DUP	11/03/21 18:01			U	U	mg/L				0	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05005	U	.0506	mg/L	101	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05005	U	.05031	mg/L	101	75	125	1	20	

Boron (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530712													
WG530712ICV	ICV	11/02/21 4:14	II211013-1	2		2.037	mg/L	102	90	110			
WG530712ICB	ICB	11/02/21 4:17				U	mg/L		-0.09	0.09			
WG530375PBS	PBS	11/02/21 4:41				U	mg/L		-0.09	0.09			
WG530375LFB1	LFB	11/02/21 4:45	II211024-2	.5005		.493	mg/L	99	80	120			
L68987-01MS	MS	11/02/21 4:53	II211024-2	.5005	U	.517	mg/L	103	75	125			
L68987-01MSD	MSD	11/02/21 4:56	II211024-2	.5005	U	.495	mg/L	99	75	125	4	20	
L69171-01DUP	DUP	11/02/21 5:15			U	U	mg/L				0	20	RA

Bromide (1312-DI)

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531314													
WG531314ICV	ICV	11/09/21 2:06	WI211108-9	3.996		4.027	mg/L	101	90	110			
WG531314ICB	ICB	11/09/21 2:24				U	mg/L		-0.05	0.05			
WG531493													
WG531493LFB	LFB	11/12/21 0:57	WI210907-6	1.5		1.5	mg/L	100	90	110			
WG530376PBS	PBS	11/12/21 1:14				U	mg/L		-0.05	0.05			
L69169-01AS	AS	11/12/21 1:50	WI210907-6	1.5	U	1.269	mg/L	85	90	110			M2
L69171-01DUP	DUP	11/12/21 2:44			U	U	mg/L				0	20	RA

OURAYSM

ACZ Project ID: **L69171**

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.

Cadmium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.049851	mg/L	100	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.00015	0.00015			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.00015	0.00015			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05005		.048632	mg/L	97	80	120			
L69171-01DUP	DUP	11/03/21 18:01			U	U	mg/L				0	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05005	.000064	.049307	mg/L	98	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05005	.000064	.048533	mg/L	97	75	125	2	20	

Calcium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530712													
WG530712ICV	ICV	11/02/21 4:14	II211013-1	100		95.95	mg/L	96	90	110			
WG530712ICB	ICB	11/02/21 4:17				.16	mg/L		-0.3	0.3			
WG530375PBS	PBS	11/02/21 4:41				.14	mg/L		-0.3	0.3			
WG530375LFB1	LFB	11/02/21 4:45	II211024-2	67.98972		67.52	mg/L	99	80	120			
L68987-01MS	MS	11/02/21 4:53	II211024-2	67.98972	1.24	70.15	mg/L	101	75	125			
L68987-01MSD	MSD	11/02/21 4:56	II211024-2	67.98972	1.24	68.04	mg/L	98	75	125	3	20	
L69171-01DUP	DUP	11/02/21 5:15			12.2	12.4	mg/L				2	20	

Carbon, total organic (TOC) (1312-DI)

SM5310B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528980													
WG528980ICV	ICV	10/08/21 13:55	WI210921-3	100		100.9	mg/L	101	90	110			
WG528980ICB	ICB	10/08/21 14:03				U	mg/L		-3	3			
WG531038													
WG531038LFB	LFB	11/04/21 15:44	WI210921-5	49.94		50.1	mg/L	100	90	110			
WG530376PBS	PBS	11/04/21 15:57				U	mg/L		-3	3			
L69169-02AS	AS	11/04/21 16:37	WI210921-5	49.94	1.1	49.7	mg/L	97	90	110			
L69171-01DUP	DUP	11/04/21 17:01			1.3	1.2	mg/L				8	20	RA

Chloride (1312-DI)

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531314													
WG531314ICV	ICV	11/09/21 2:06	WI211108-9	19.96		20.29	mg/L	102	90	110			
WG531314ICB	ICB	11/09/21 2:24				U	mg/L		-0.4	0.4			
WG531493													
WG531493LFB	LFB	11/12/21 0:57	WI210907-6	30		31.31	mg/L	104	90	110			
WG530376PBS	PBS	11/12/21 1:14				U	mg/L		-0.4	0.4			
L69169-01AS	AS	11/12/21 1:50	WI210907-6	30	.64	31.83	mg/L	104	90	110			
L69171-01DUP	DUP	11/12/21 2:44			U	U	mg/L				0	20	RA

OURAYSM

ACZ Project ID: **L69171**

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 (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.04972	mg/L	99	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0015	0.0015			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0015	0.0015			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05		.04793	mg/L	96	80	120			
L69171-01DUP	DUP	11/03/21 18:01			U	U	mg/L				0	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05	U	.04817	mg/L	96	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05	U	.04763	mg/L	95	75	125	1	20	

Cobalt (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.053344	mg/L	107	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.00015	0.00015			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.00015	0.00015			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05005		.051725	mg/L	103	80	120			
L69171-01DUP	DUP	11/03/21 18:01			.000062	.00006	mg/L				3	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05005	.000078	.050539	mg/L	101	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05005	.000078	.049989	mg/L	100	75	125	1	20	

Conductivity @25C (1312-DI)

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530612													
WG530612PBW	PBW	10/29/21 16:02				U	umhos/cm		-10	10			
WG530612LCSW1	LCSW	10/29/21 16:04	PCN64228	1409		1497	umhos/cm	106	90	110			
WG530376PBS	PBS	10/29/21 16:25				U	umhos/cm		-4	4			
L69171-01DUP	DUP	10/29/21 17:02			106	110	umhos/cm				4	20	
WG530612LCSW3	LCSW	10/29/21 17:12	PCN64228	1409		1486	umhos/cm	105	90	110			

Copper (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.05225	mg/L	105	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0024	0.0024			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0024	0.0024			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05		.05092	mg/L	102	80	120			
L69171-01DUP	DUP	11/03/21 18:01			U	U	mg/L				0	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05	.00284	.0526	mg/L	100	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05	.00284	.05217	mg/L	99	75	125	1	20	

OURAYSM

ACZ Project ID: **L69171**

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.

Fluoride (1312 DI)

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531044													
WG531044ICV	ICV	11/04/21 14:16	WC211030-1	2.002		2.2	mg/L	110	90	110			
WG531044ICB	ICB	11/04/21 14:22				U	mg/L		-0.3	0.3			
WG531044LFB	LFB	11/04/21 14:30	WC210803-9	5.02		5.25	mg/L	105	90	110			
WG529263PBS	PBS	11/04/21 14:35				U	mg/L		-0.3	0.3			
WG530376PBS	PBS	11/04/21 16:28				U	mg/L		-0.3	0.3			
L69171-01AS	AS	11/04/21 17:08	WC210803-9	5.02	.2	5.49	mg/L	105	90	110			
L69171-01DUP	DUP	11/04/21 17:16			.2	.25	mg/L				22	20	RA

Iron (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530712													
WG530712ICV	ICV	11/02/21 4:14	II211013-1	2		2.002	mg/L	100	90	110			
WG530712ICB	ICB	11/02/21 4:17				U	mg/L		-0.18	0.18			
WG530375PBS	PBS	11/02/21 4:41				U	mg/L		-0.18	0.18			
WG530375LFB1	LFB	11/02/21 4:45	II211024-2	1.0001		1.037	mg/L	104	80	120			
L68987-01MS	MS	11/02/21 4:53	II211024-2	1.0001	U	1.065	mg/L	106	75	125			
L68987-01MSD	MSD	11/02/21 4:56	II211024-2	1.0001	U	1.022	mg/L	102	75	125	4	20	
L69171-01DUP	DUP	11/02/21 5:15			U	U	mg/L				0	20	RA

Lead (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.05248	mg/L	105	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0003	0.0003			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0003	0.0003			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05005		.04985	mg/L	100	80	120			
L69171-01DUP	DUP	11/03/21 18:01			.00397	.0019	mg/L				71	20	RD
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05005	.002	.05226	mg/L	100	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05005	.002	.05274	mg/L	101	75	125	1	20	

Lithium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530787													
WG530787ICV	ICV	11/02/21 17:16	II211013-1	2		1.975	mg/L	99	90	110			
WG530787ICB	ICB	11/02/21 17:20				U	mg/L		-0.024	0.024			
WG530375PBS	PBS	11/02/21 17:44				U	mg/L		-0.024	0.024			
WG530375LFB1	LFB	11/02/21 17:48	II211024-2	.999		.9982	mg/L	100	80	120			
L68987-01MS	MS	11/02/21 17:55	II211024-2	.999	U	1.012	mg/L	101	75	125			
L68987-01MSD	MSD	11/02/21 17:59	II211024-2	.999	U	.9902	mg/L	99	75	125	2	20	
L69171-01DUP	DUP	11/02/21 18:19			U	U	mg/L				0	20	RA

OURAYSM

ACZ Project ID: **L69171**

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.

Magnesium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530787													
WG530787ICV	ICV	11/02/21 17:16	II211013-1	100		96.62	mg/L	97	90	110			
WG530787ICB	ICB	11/02/21 17:20				U	mg/L		-0.6	0.6			
WG530375PBS	PBS	11/02/21 17:44				U	mg/L		-0.6	0.6			
WG530375LFB1	LFB	11/02/21 17:48	II211024-2	49.99828		50.41	mg/L	101	80	120			
L68987-01MS	MS	11/02/21 17:55	II211024-2	49.99828	.79	50.39	mg/L	99	75	125			
L68987-01MSD	MSD	11/02/21 17:59	II211024-2	49.99828	.79	49.49	mg/L	97	75	125	2	20	
L69171-01DUP	DUP	11/02/21 18:19			.86	.93	mg/L				8	20	RA

Manganese (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.05205	mg/L	104	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0012	0.0012			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0012	0.0012			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.0499		.05213	mg/L	104	80	120			
L69171-01DUP	DUP	11/03/21 18:01			.087	.10211	mg/L				16	20	
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.0499	.00189	.05341	mg/L	103	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.0499	.00189	.05259	mg/L	102	75	125	2	20	

Mercury (1312)

M7470A CVA4

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530504													
WG530504ICV	ICV	10/29/21 7:19	HG211004-3	.00501		.00491	mg/L	98	90	110			
WG530504ICB	ICB	10/29/21 7:20				U	mg/L		-0.0006	0.0006			
WG530581													
WG530375PBS	PBS	10/29/21 8:58				U	mg/L		-0.0006	0.0006			
WG530375LFB1	LFB	10/29/21 8:59	HG211015-3	.002002		.00185	mg/L	92	85	115			
L68987-01MS	MS	10/29/21 9:01	HG211015-3	.002002	U	.00183	mg/L	91	85	115			
L68987-01MSD	MSD	10/29/21 9:02	HG211015-3	.002002	U	.00185	mg/L	92	85	115	1	20	
L69171-01DUP	DUP	10/29/21 9:06			U	U	mg/L				0	20	RA

Molybdenum (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.01992		.01984	mg/L	100	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0006	0.0006			
WG530375PBS	PBS	11/03/21 17:47				.00038	mg/L		-0.0006	0.0006			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05005		.05003	mg/L	100	80	120			
L69171-01DUP	DUP	11/03/21 18:01			.0123	.01285	mg/L				4	20	
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05005	.12	.17202	mg/L	104	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05005	.12	.16892	mg/L	98	75	125	2	20	

OURAYSM

ACZ Project ID: **L69171**

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.

Neutralization Potential as CaCO₃ M600/2-78-054 3.2.3 - Modified (No Heat)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531950													
WG531950PBS	PBS	11/18/21 13:24				.1	%		-0.2	0.2			
WG531950LCSS	LCSS	11/18/21 14:45	PCN64031	5.23		5.4	%	103	80	120			
L69171-01MS	MS	11/18/21 17:27	SI190303-2	3	8.4	11.3	%	97	70	130			
L69171-01DUP	DUP	11/18/21 18:48			8.4	8.1	%				4	20	

Nickel (1312) M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.05113	mg/L	102	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0012	0.0012			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0012	0.0012			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05		.04855	mg/L	97	80	120			
L69171-01DUP	DUP	11/03/21 18:01			U	U	mg/L				0	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05	U	.04884	mg/L	98	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05	U	.04774	mg/L	95	75	125	2	20	

Nitrate/Nitrite as N (1312-DI) M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530633													
WG530633ICV	ICV	10/29/21 23:41	WI210904-1	2.4161		2.343	mg/L	97	90	110			
WG530633ICB	ICB	10/29/21 23:42				U	mg/L		-0.02	0.02			
WG530636													
WG530636LFB	LFB	10/30/21 1:15	WI211001-5	2		2.007	mg/L	100	90	110			
WG530376PBS	PBS	10/30/21 1:16				U	mg/L		-0.02	0.02			
L68987-01AS	AS	10/30/21 1:19	WI211001-5	2	U	1.99	mg/L	100	90	110			
L69171-01DUP	DUP	10/30/21 1:24			U	U	mg/L				0	20	RA

Nitrite as N (1312-DI) M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530633													
WG530633ICV	ICV	10/29/21 23:41	WI210904-1	.6089		.602	mg/L	99	90	110			
WG530633ICB	ICB	10/29/21 23:42				U	mg/L		-0.01	0.01			
WG530636													
WG530636LFB	LFB	10/30/21 1:15	WI211001-5	1		1.054	mg/L	105	90	110			
WG530376PBS	PBS	10/30/21 1:16				U	mg/L		-0.01	0.01			
L68987-01AS	AS	10/30/21 1:19	WI211001-5	1	U	1.047	mg/L	105	90	110			
L69171-01DUP	DUP	10/30/21 1:24			U	U	mg/L				0	20	RA

OURAYSM

ACZ Project ID: **L69171**

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.

Nitrogen, ammonia (1312-DI)

M350.1 Auto Salicylate w/gas diffusion

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531625													
WG531625ICV	ICV	11/13/21 10:59	WI211005-1	12		12.25	mg/L	102	90	110			
WG531625ICB	ICB	11/13/21 11:01				U	mg/L		-0.05	0.05			
WG531648													
WG531648LFB	LFB	11/13/21 11:52	WI210901-4	10		10.408	mg/L	104	90	110			
WG530376PBS	PBS	11/13/21 11:53				U	mg/L		-0.05	0.05			
L68987-01AS	AS	11/13/21 11:56	WI210901-4	10	U	10.275	mg/L	103	90	110			
L69171-01DUP	DUP	11/13/21 12:02			.86	.84	mg/L				2	20	

Phosphorus, ortho dissolved (1312-DI)

M365.1 - Automated Ascorbic Acid

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530632													
WG530632ICV	ICV	10/29/21 23:10	WI210401-4	.65228		.677	mg/L	104	90	110			
WG530632ICB	ICB	10/29/21 23:11				U	mg/L		-0.01	0.01			
WG530634													
WG530634LFB	LFB	10/29/21 23:47	WI211015-3	.5		.504	mg/L	101	90	110			
WG530376PBS	PBS	10/29/21 23:49				U	mg/L		-0.01	0.01			
L69169-01AS	AS	10/29/21 23:51	WI211015-3	.5	.019	.524	mg/L	101	90	110			
L69171-01DUP	DUP	10/29/21 23:54			U	U	mg/L				0	20	RA

Phosphorus, Total (1312-DI)

M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531168													
WG531168ICV	ICV	11/07/21 17:34	WI211018-4	.65228		.688	mg/L	105	90	110			
WG531168ICB	ICB	11/07/21 17:37				U	mg/L		-0.01	0.01			
WG531173													
WG531173ICV	ICV	11/07/21 22:35	WI211018-4	.65228		.693	mg/L	106	90	110			
WG531173ICB	ICB	11/07/21 22:37				U	mg/L		-0.01	0.01			
WG530717PBS	PBS	11/07/21 22:38				U	mg/L		-0.01	0.01			
WG530717LFB	LFB	11/07/21 22:39	WI211030-2	.5		.5	mg/L	100	90	110			
L69169-01MS	MS	11/07/21 22:41	WI211030-2	.5	.104	.616	mg/L	102	90	110			
L69169-02DUP	DUP	11/07/21 22:43			.018	.019	mg/L				5	20	RA

Potassium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530712													
WG530712ICV	ICV	11/02/21 4:14	II211013-1	20		19.39	mg/L	97	90	110			
WG530712ICB	ICB	11/02/21 4:17				.3	mg/L		-0.6	0.6			
WG530375PBS	PBS	11/02/21 4:41				.29	mg/L		-0.6	0.6			
WG530375LFB1	LFB	11/02/21 4:45	II211024-2	99.96008		97.75	mg/L	98	80	120			
L68987-01MS	MS	11/02/21 4:53	II211024-2	99.96008	1.9	101.4	mg/L	100	75	125			
L68987-01MSD	MSD	11/02/21 4:56	II211024-2	99.96008	1.9	98.62	mg/L	97	75	125	3	20	
L69171-01DUP	DUP	11/02/21 5:15			6.51	6.59	mg/L				1	20	

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ACZ Project ID: **L69171**

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.

Residue, Filterable (TDS) @180C (1312) SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530627													
WG530627PBW	PBW	10/29/21 17:50				U	mg/L		-20	20			
WG530627LCSW	LCSW	10/29/21 17:52	PCN63840	1000		982	mg/L	98	80	120			
WG530376PBS	PBS	10/29/21 17:55				U	mg/L		-40	40			
L69171-01DUP	DUP	10/29/21 18:07			62	60	mg/L				3	10	N1 RA

Residue, Non-Filter (TSS) @180C (1312-DI) SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531061													
WG531061PBW	PBW	11/04/21 16:00				U	mg/L		-5	5			
WG531061LCSW	LCSW	11/04/21 16:04	PCN64718	100		98	mg/L	98	80	120			
WG530376PBS	PBS	11/04/21 16:08				U	mg/L		-15	15			
L69171-01DUP	DUP	11/04/21 16:25			U	U	mg/L				0	10	RA

Selenium (1312) M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.04963	mg/L	99	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0003	0.0003			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0003	0.0003			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05		.04768	mg/L	95	80	120			
L69171-01DUP	DUP	11/03/21 18:01			U	U	mg/L				0	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05	.00013	.04868	mg/L	97	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05	.00013	.04922	mg/L	98	75	125	1	20	

Silica (1312) M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530787													
WG530787ICV	ICV	11/02/21 17:16	II211013-1	42.8		43.64	mg/L	102	90	110			
WG530787ICB	ICB	11/02/21 17:20				U	mg/L		-0.6	0.6			
WG530375PBS	PBS	11/02/21 17:44				U	mg/L		-0.6	0.6			
WG530375LFB1	LFB	11/02/21 17:48	II211024-2	21.404		21.38	mg/L	100	80	120			
L68987-01MS	MS	11/02/21 17:55	II211024-2	21.404	2.6	22.33	mg/L	92	75	125			
L68987-01MSD	MSD	11/02/21 17:59	II211024-2	21.404	2.6	21.7	mg/L	89	75	125	3	20	
L69171-01DUP	DUP	11/02/21 18:19			3.4	3.04	mg/L				11	20	

Silver (1312) M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.02		.01846	mg/L	92	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0003	0.0003			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0003	0.0003			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.01		.00895	mg/L	90	80	120			
L69171-01DUP	DUP	11/03/21 18:01			U	U	mg/L				0	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.01	U	.00902	mg/L	90	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.01	U	.00892	mg/L	89	75	125	1	20	

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ACZ Project ID: **L69171**

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.

Sodium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530712													
WG530712ICV	ICV	11/02/21 4:14	II211013-1	100		95.49	mg/L	95	90	110			
WG530712ICB	ICB	11/02/21 4:17				U	mg/L		-0.6	0.6			
WG530375PBS	PBS	11/02/21 4:41				U	mg/L		-0.6	0.6			
WG530375LFB1	LFB	11/02/21 4:45	II211024-2	100.007		96.4	mg/L	96	80	120			
L68987-01MS	MS	11/02/21 4:53	II211024-2	100.007	21.3	119.3	mg/L	98	75	125			
L68987-01MSD	MSD	11/02/21 4:56	II211024-2	100.007	21.3	116.2	mg/L	95	75	125	3	20	
L69171-01DUP	DUP	11/02/21 5:15			1.23	1.26	mg/L				2	20	RA

Strontium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530787													
WG530787ICV	ICV	11/02/21 17:16	II211013-1	2		1.953	mg/L	98	90	110			
WG530787ICB	ICB	11/02/21 17:20				U	mg/L		-0.027	0.027			
WG530375PBS	PBS	11/02/21 17:44				U	mg/L		-0.027	0.027			
WG530375LFB1	LFB	11/02/21 17:48	II211024-2	.5005		.5539	mg/L	111	80	120			
L68987-01MS	MS	11/02/21 17:55	II211024-2	.5005	.0161	.5591	mg/L	108	75	125			
L68987-01MSD	MSD	11/02/21 17:59	II211024-2	.5005	.0161	.5518	mg/L	107	75	125	1	20	
L69171-01DUP	DUP	11/02/21 18:19			.377	.3967	mg/L				5	20	

Sulfate (1312-DI)

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531660													
WG531660ICV	ICV	11/12/21 16:42	WI211108-9	51.15		51.15	mg/L	100	90	110			
WG531660ICB	ICB	11/12/21 16:59				U	mg/L		-0.4	0.4			
WG532073													
WG532073LFB	LFB	11/20/21 13:00	WI211112-6	30		31.7	mg/L	106	90	110			
WG530376PBS	PBS	11/20/21 13:18				U	mg/L		-0.4	0.4			
L69169-01AS	AS	11/20/21 13:54	WI211112-6	30	21.9	53.56	mg/L	106	90	110			
L69171-01DUP	DUP	11/20/21 14:48			18.8	19.23	mg/L				2	20	

Sulfur Organic Residual

M600/2-78-054 3.2.4-MOD

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532185													
L69800-01DUP	DUP	11/23/21 10:21			U	U	%				0	20	RA

Sulfur Pyritic Sulfide

M600/2-78-054 3.2.4-MOD

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532185													
L69800-01DUP	DUP	11/23/21 10:21			.04	.03	%				29	20	RA

Sulfur Sulfate

M600/2-78-054 3.2.4-MOD

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532185													
WG532185PBS	PBS	11/23/21 10:07				U	%		-0.03	0.03			
L69800-01DUP	DUP	11/23/21 10:21			U	U	%				0	20	RA

OURAYSM

ACZ Project ID: **L69171**

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.

Sulfur Total

M600/2-78-054 3.2.4-MOD

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532185													
WG532185PBS	PBS	11/23/21 8:15				U	%		-0.03	0.03			
WG532185LCSS	LCSS	11/23/21 8:18	PCN63155	4.01		3.63	%	91	80	120			
L69800-01MS	MS	11/23/21 8:26	PCN64058	1.3	.03	1.38	%	104	80	120			
L69800-01DUP	DUP	11/23/21 8:30			.03	.02	%				40	20	RA
WG532185LCSS	LCSS	11/23/21 9:11	PCN63155	4.01		3.43	%	86	80	120			
WG532185PBS	PBS	11/23/21 9:14				U	%		-0.03	0.03			

Thallium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.0541	mg/L	108	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0003	0.0003			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0003	0.0003			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05		.0488	mg/L	98	80	120			
L69171-01DUP	DUP	11/03/21 18:01			.00013	.00013	mg/L				0	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05	U	.05085	mg/L	102	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05	U	.05002	mg/L	100	75	125	2	20	

Tin (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530712													
WG530712ICV	ICV	11/02/21 4:14	II211013-1	2		2.024	mg/L	101	90	110			
WG530712ICB	ICB	11/02/21 4:17				U	mg/L		-0.12	0.12			
WG530375PBS	PBS	11/02/21 4:41				U	mg/L		-0.12	0.12			
WG530375LFB1	LFB	11/02/21 4:45	II211024-2	1.002		.981	mg/L	98	80	120			
L68987-01MS	MS	11/02/21 4:53	II211024-2	1.002	U	1.024	mg/L	102	75	125			
L68987-01MSD	MSD	11/02/21 4:56	II211024-2	1.002	U	.991	mg/L	99	75	125	3	20	
L69171-01DUP	DUP	11/02/21 5:15			U	U	mg/L				0	20	RA

Total Sulfur Minus Sulfate

M600/2-78-054 3.2.4-MOD

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532185													
WG532185PBS	PBS	11/23/21 10:07				U	%		-0.03	0.03			
L69800-01DUP	DUP	11/23/21 10:21			.04	.03	%				29	20	RA

Uranium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.04988	mg/L	100	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0003	0.0003			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0003	0.0003			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05		.04854	mg/L	97	80	120			
L69171-01DUP	DUP	11/03/21 18:01			U	U	mg/L				0	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05	U	.04971	mg/L	99	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05	U	.04961	mg/L	99	75	125	0	20	

OURAYSM

ACZ Project ID: **L69171**

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.

Vanadium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.04832	mg/L	97	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.0015	0.0015			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.0015	0.0015			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.05		.04794	mg/L	96	80	120			
L69171-01DUP	DUP	11/03/21 18:01			U	U	mg/L				0	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.05	U	.04879	mg/L	98	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.05	U	.04824	mg/L	96	75	125	1	20	

Zinc (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530915													
WG530915ICV	ICV	11/03/21 17:37	MS211013-2	.05		.0492	mg/L	98	90	110			
WG530915ICB	ICB	11/03/21 17:38				U	mg/L		-0.018	0.018			
WG530375PBS	PBS	11/03/21 17:47				U	mg/L		-0.018	0.018			
WG530375LFB2	LFB	11/03/21 17:48	MS210927-3	.050075		.0528	mg/L	105	80	120			
L69171-01DUP	DUP	11/03/21 18:01			U	U	mg/L				0	20	RA
L69173-01MS	MS	11/03/21 18:05	MS210927-3	.050075	U	.0538	mg/L	107	75	125			
L69173-01MSD	MSD	11/03/21 18:06	MS210927-3	.050075	U	.0537	mg/L	107	75	125	0	20	

Ouray Silver Mines

ACZ Project ID: **L69171**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L69171-01	WG532746	Acid Generation Potential (calc)	M600/2-78-054 1.3	N1	See Case Narrative.
		Acid Neutralization Potential (calc)	M600/2-78-054 1.3	N1	See Case Narrative.
		Acid-Base Potential (calc)	M600/2-78-054 1.3	N1	See Case Narrative.
	WG530787	Aluminum (1312)	M6010D ICP	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).
	WG530915	Antimony (1312)	M6020B ICP-MS	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.
			M6020B ICP-MS	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
		Arsenic (1312)	M6020B ICP-MS	ZH	Serial Dilution exceeded the acceptance criteria. Matrix interference [physical or chemical] is suspected.
		Barium (1312)	M6020B ICP-MS	ZH	Serial Dilution exceeded the acceptance criteria. Matrix interference [physical or chemical] is suspected.
		Beryllium (1312)	M6020B ICP-MS	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).
	WG530612	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG530712	Boron (1312)	M6010D ICP	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).
	WG531493	Bromide (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	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).
	WG530915	Cadmium (1312)	M6020B ICP-MS	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).
	WG531038	Carbon, total organic (TOC) (1312-DI)	SM5310B	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
				Q6	Sample was received above recommended temperature.
				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).
	WG530612	Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG531493	Chloride (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography	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).
			M300.0 - Ion Chromatography	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).
	WG530915	Chromium (1312)	M6020B ICP-MS	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).
		Cobalt (1312)	M6020B ICP-MS	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).
	WG530612	Conductivity @25C (1312-DI)	SM2510B	Q6	Sample was received above recommended temperature.
	WG530915	Copper (1312)	M6020B ICP-MS	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).

Ouray Silver Mines

ACZ Project ID: **L69171**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
	WG531044	Fluoride (1312 DI)	SM4500F-C	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).
	WG530612	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG530712	Iron (1312)	M6010D ICP	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).
	WG530915	Lead (1312)	M6020B ICP-MS	RD	For a solid matrix, the duplicate RPD (spike or matrix) exceeded the control limit, which is attributable to the non-homogeneity of the sample.
			M6020B ICP-MS	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
	WG530787	Lithium (1312)	M6010D ICP	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).
		Magnesium (1312)	M6010D ICP	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).
	WG530915	Manganese (1312)	M6020B ICP-MS	ZH	Serial Dilution exceeded the acceptance criteria. Matrix interference [physical or chemical] is suspected.
	WG530581	Mercury (1312)	M7470A CVAA	Q6	Sample was received above recommended temperature.
			M7470A CVAA	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).
	WG530915	Molybdenum (1312)	M6020B ICP-MS	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
		Nickel (1312)	M6020B ICP-MS	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).
	WG530636	Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	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).
		Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	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).
	WG531648	Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M350.1 Auto Salicylate w/gas diffusion	Q6	Sample was received above recommended temperature.
	WG530634	Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M365.1 - Automated Ascorbic	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).

Ouray Silver Mines

ACZ Project ID: **L69171**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
	WG531173	Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			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).
	WG530712	Potassium (1312)	M6010D ICP	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
	WG530627	Residue, Filterable (TDS) @180C (1312)	SM2540C	N1	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).
	WG531061	Residue, Non-Filter (TSS) @180C (1312-	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).
		DI)	SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
	WG530915	Selenium (1312)	M6020B ICP-MS	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).
		Silver (1312)	M6020B ICP-MS	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).
	WG530712	Sodium (1312)	M6010D ICP	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).
	WG532073	Sulfate (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
	WG532185	Sulfur Organic Residual	M600/2-78-054 3.2.4-MOD	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).
		Sulfur Pyritic Sulfide	M600/2-78-054 3.2.4-MOD	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).
		Sulfur Sulfate	M600/2-78-054 3.2.4-MOD	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).
		Sulfur Total	M600/2-78-054 3.2.4-MOD	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).
	WG530915	Thallium (1312)	M6020B ICP-MS	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).
	WG530712	Tin (1312)	M6010D ICP	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).
	WG530612	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG532185	Total Sulfur minus Sulfate	M600/2-78-054 3.2.4-MOD	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).
	WG530915	Uranium (1312)	M6020B ICP-MS	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).
		Vanadium (1312)	M6020B ICP-MS	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).
		Zinc (1312)	M6020B ICP-MS	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).

Ouray Silver Mines

ACZ Project ID: **L69171**

Soil Analysis

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Acid Generation Potential (calc)	M600/2-78-054 1.3
Acid Neutralization Potential (calc)	M600/2-78-054 1.3
Acid-Base Potential (calc)	M600/2-78-054 1.3
Neutralization Potential as CaCO ₃	M600/2-78-054 3.2.3 - Modified (No Heat)
Sulfur HCl Residue	M600/2-78-054 3.2.4-MOD
Sulfur HNO ₃ Residue	M600/2-78-054 3.2.4-MOD
Sulfur Total	M600/2-78-054 3.2.4-MOD

Wet Chemistry

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Bicarbonate as CaCO ₃	SM2320B - Titration
Bromide (1312-DI)	M300.0 - Ion Chromatography
Carbonate as CaCO ₃	SM2320B - Titration
Chloride (1312-DI)	M300.0 - Ion Chromatography
Conductivity @25C (1312-DI)	SM2510B
Fluoride (1312 DI)	SM4500F-C
Hydroxide as CaCO ₃	SM2320B - Titration
Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction
Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction
Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion
Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic Acid
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)
Residue, Filterable (TDS) @180C (1312)	SM2540C
Residue, Non-Filter (TSS) @180C (1312-DI)	SM2540D
Sulfate (1312-DI)	M300.0 - Ion Chromatography
Total Alkalinity	SM2320B - Titration

Ouray Silver Mines

ACZ Project ID: L69171

Date Received: 10/12/2021 10:51

Received By:

Date Printed: 10/13/2021

Receipt Verification

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

Samples/Containers

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

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?
NA36178	16.4	NA	15	N/A

Was ice present in the shipment container(s)?

No - Wet or gel ice was not 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.

Ouray Silver Mines

ACZ Project ID: L69171

Date Received: 10/12/2021 10:51

Received By:

Date Printed: 10/13/2021

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).

November 04, 2021

Report to:
Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Environmental, Accounts Payable

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

Project ID:
ACZ Project ID: L69189

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 13, 2021. This project has been assigned to ACZ's project number, L69189. 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 L69189. 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 December 04, 2021. 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.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: MILL WATER

ACZ Sample ID: **L69189-01**

Date Sampled: 10/11/21 13:44

Date Received: 10/13/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								10/17/21 22:15	mjj1
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion				*				10/18/21 14:02	bls

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	10/18/21 17:28	jlw
Antimony, dissolved	M200.8 ICP-MS	1	0.0160			mg/L	0.0004	0.002	10/19/21 18:59	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00112			mg/L	0.0002	0.001	10/19/21 18:59	bsu
Barium, dissolved	M200.7 ICP	1	0.0417			mg/L	0.007	0.035	10/18/21 17:28	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	10/19/21 18:59	bsu
Boron, dissolved	M200.7 ICP	1	0.114			mg/L	0.03	0.1	10/18/21 17:28	jlw
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	10/19/21 18:59	bsu
Calcium, dissolved	M200.7 ICP	1	118			mg/L	0.1	0.5	10/18/21 17:28	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/19/21 18:59	bsu
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	10/19/21 18:59	bsu
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/18/21 17:28	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.00064			mg/L	0.0001	0.0005	10/19/21 18:59	bsu
Magnesium, dissolved	M200.7 ICP	1	10.9			mg/L	0.2	1	10/18/21 17:28	jlw
Manganese, dissolved	M200.7 ICP	1	0.866			mg/L	0.01	0.05	10/18/21 17:28	jlw
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/20/21 14:51	aeh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.0572			mg/L	0.0002	0.0005	10/19/21 18:59	bsu
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	10/18/21 17:28	jlw
Potassium, dissolved	M200.7 ICP	1	66.7			mg/L	0.2	1	10/18/21 17:28	jlw
Selenium, dissolved	M200.8 ICP-MS	1	0.00051			mg/L	0.0001	0.00025	10/19/21 18:59	bsu
Silica, dissolved	M200.7 ICP	1	5.2			mg/L	0.2	1	10/18/21 17:28	jlw
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	10/19/21 18:59	bsu
Sodium, dissolved	M200.7 ICP	1	49.6			mg/L	0.2	1	10/18/21 17:28	jlw
Thallium, dissolved	M200.8 ICP-MS	1	0.00054			mg/L	0.0001	0.0005	10/19/21 18:59	bsu
Uranium, dissolved	M200.8 ICP-MS	1	0.00012	B		mg/L	0.0001	0.0005	10/19/21 18:59	bsu
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	10/18/21 17:28	jlw
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/18/21 17:28	jlw

Ouray Silver Mines

Project ID:

Sample ID: MILL WATER

ACZ Sample ID: **L69189-01**

Date Sampled: 10/11/21 13:44

Date Received: 10/13/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	70.2			mg/L	2	20	10/22/21 0:00	eeep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	10/22/21 0:00	eeep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	10/22/21 0:00	eeep
Total Alkalinity		1	70.2		*	mg/L	2	20	10/22/21 0:00	eeep
Carbon, total organic (TOC)	SM5310B	1	39.8		*	mg/L	1	5	10/22/21 0:54	md
Cation-Anion Balance	Calculation									
Cation-Anion Balance			4.8			%			11/03/21 0:00	calc
Sum of Anions			10			meq/L			11/03/21 0:00	calc
Sum of Cations			11			meq/L			11/03/21 0:00	calc
Chloride	SM4500Cl-E	1	84.0			mg/L	0.5	2	10/21/21 15:11	md
Conductivity @25C	SM2510B	1	1330		*	umhos/cm	1	10	10/22/21 11:18	eeep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/18/21 17:39	mjj1
Fluoride	SM4500F-C	1	0.74			mg/L	0.15	0.35	10/22/21 20:32	eeep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		340			mg/L	0.2	5	11/03/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	10	27.8		*	mg/L	0.2	1	10/30/21 22:09	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H	*	units	0.1	0.1	10/22/21 0:00	eeep
pH measured at		1	22.2			C	0.1	0.1	10/22/21 0:00	eeep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	200	115			mg/L	2	10	10/25/21 10:59	syw
Residue, Filterable (TDS) @180C	SM2540C	1	804	H	*	mg/L	20	40	10/26/21 15:00	jck
Residue, Non-Filterable (TSS) @105C	SM2540D	100	84800		*	mg/L	500	2000	10/18/21 18:05	anc
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	10	293			mg/L	10	50	10/24/21 21:03	syw
TDS (calculated)	Calculation		673			mg/L			11/03/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.19						11/03/21 0:00	calc

Report Header Explanations

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

QC Sample Types

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

OURAYSM

ACZ Project ID: **L69189**

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
WG530055													
WG530055PBW1	PBW	10/21/21 22:00				5	mg/L		-20	20			
WG530055LCSW3	LCSW	10/21/21 22:19	WC211018-1	820.0001		803.2	mg/L	98	90	110			
WG530055LCSW6	LCSW	10/22/21 0:57	WC211018-1	820.0001		814.7	mg/L	99	90	110			
WG530055PBW2	PBW	10/22/21 1:03				4.9	mg/L		-20	20			
WG530055LCSW9	LCSW	10/22/21 4:44	WC211018-1	820.0001		814	mg/L	99	90	110			
WG530055PBW3	PBW	10/22/21 4:51				4.8	mg/L		-20	20			
WG530055LCSW12	LCSW	10/22/21 8:39	WC211018-1	820.0001		819.1	mg/L	100	90	110			
WG530055PBW4	PBW	10/22/21 8:45				4.9	mg/L		-20	20			
L69253-01DUP	DUP	10/22/21 13:02			201	203.3	mg/L				1	20	
WG530055LCSW15	LCSW	10/22/21 13:21	WC211018-1	820.0001		823.9	mg/L	100	90	110			

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529678													
WG529678ICV	ICV	10/18/21 15:41	II211014-1	2		1.997	mg/L	100	95	105			
WG529678ICB	ICB	10/18/21 15:47				U	mg/L		-0.15	0.15			
WG529678LFB	LFB	10/18/21 16:00	II210930-2	1.0008		1.044	mg/L	104	85	115			
L69178-13AS	AS	10/18/21 17:22	II210930-2	1.0008	U	1.054	mg/L	105	85	115			
L69178-13ASD	ASD	10/18/21 17:25	II210930-2	1.0008	U	1.079	mg/L	108	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
WG529835													
WG529835ICV	ICV	10/19/21 18:17	MS211013-2	.0201		.02157	mg/L	107	90	110			
WG529835ICB	ICB	10/19/21 18:18				U	mg/L		-0.00088	0.00088			
WG529835LFB	LFB	10/19/21 18:20	MS210927-3	.01		.00952	mg/L	95	85	115			
L69001-04AS	AS	10/19/21 18:48	MS210927-3	.01	U	.00863	mg/L	86	70	130			
L69001-04ASD	ASD	10/19/21 18:50	MS210927-3	.01	U	.00786	mg/L	79	70	130	9	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529835													
WG529835ICV	ICV	10/19/21 18:17	MS211013-2	.05		.05074	mg/L	101	90	110			
WG529835ICB	ICB	10/19/21 18:18				U	mg/L		-0.00044	0.00044			
WG529835LFB	LFB	10/19/21 18:20	MS210927-3	.05005		.04888	mg/L	98	85	115			
L69001-04AS	AS	10/19/21 18:48	MS210927-3	.05005	.00075	.04995	mg/L	98	70	130			
L69001-04ASD	ASD	10/19/21 18:50	MS210927-3	.05005	.00075	.05086	mg/L	100	70	130	2	20	

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529678													
WG529678ICV	ICV	10/18/21 15:41	II211014-1	2		1.999	mg/L	100	95	105			
WG529678ICB	ICB	10/18/21 15:47				U	mg/L		-0.021	0.021			
WG529678LFB	LFB	10/18/21 16:00	II210930-2	.5		.5061	mg/L	101	85	115			
L69178-13AS	AS	10/18/21 17:22	II210930-2	.5	.0464	.5481	mg/L	100	85	115			
L69178-13ASD	ASD	10/18/21 17:25	II210930-2	.5	.0464	.5449	mg/L	100	85	115	1	20	

OURAYSM

ACZ Project ID: **L69189**

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
WG529835													
WG529835ICV	ICV	10/19/21 18:17	MS211013-2	.05		.05166	mg/L	103	90	110			
WG529835ICB	ICB	10/19/21 18:18				.000093	mg/L		-0.000176	0.000176			
WG529835LFB	LFB	10/19/21 18:20	MS210927-3	.05005		.047466	mg/L	95	85	115			
L69001-04AS	AS	10/19/21 18:48	MS210927-3	.05005	U	.043497	mg/L	87	70	130			
L69001-04ASD	ASD	10/19/21 18:50	MS210927-3	.05005	U	.044167	mg/L	88	70	130	2	20	

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529678													
WG529678ICV	ICV	10/18/21 15:41	II211014-1	2		1.985	mg/L	99	95	105			
WG529678ICB	ICB	10/18/21 15:47				U	mg/L		-0.09	0.09			
WG529678LFB	LFB	10/18/21 16:00	II210930-2	.5005		.516	mg/L	103	85	115			
L69178-13AS	AS	10/18/21 17:22	II210930-2	.5005	.232	.739	mg/L	101	85	115			
L69178-13ASD	ASD	10/18/21 17:25	II210930-2	.5005	.232	.737	mg/L	101	85	115	0	20	

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529835													
WG529835ICV	ICV	10/19/21 18:17	MS211013-2	.05		.0521	mg/L	104	90	110			
WG529835ICB	ICB	10/19/21 18:18				U	mg/L		-0.00011	0.00011			
WG529835LFB	LFB	10/19/21 18:20	MS210927-3	.05005		.049929	mg/L	100	85	115			
L69001-04AS	AS	10/19/21 18:48	MS210927-3	.05005	U	.045607	mg/L	91	70	130			
L69001-04ASD	ASD	10/19/21 18:50	MS210927-3	.05005	U	.047896	mg/L	96	70	130	5	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529678													
WG529678ICV	ICV	10/18/21 15:41	II211014-1	100		98.62	mg/L	99	95	105			
WG529678ICB	ICB	10/18/21 15:47				U	mg/L		-0.3	0.3			
WG529678LFB	LFB	10/18/21 16:00	II210930-2	67.98972		68.72	mg/L	101	85	115			
L69178-13AS	AS	10/18/21 17:22	II210930-2	67.98972	139	199.3	mg/L	89	85	115			
L69178-13ASD	ASD	10/18/21 17:25	II210930-2	67.98972	139	201.3	mg/L	92	85	115	1	20	

Carbon, total organic (TOC)

SM5310B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528980													
WG528980ICV	ICV	10/08/21 13:55	WI210921-3	100		100.9	mg/L	101	90	110			
WG528980ICB	ICB	10/08/21 14:03				U	mg/L		-3	3			
WG529870													
WG529870LFB	LFB	10/21/21 23:38	WI210921-5	49.94		50.9	mg/L	102	90	110			
L69181-01DUP	DUP	10/22/21 0:02			4.9	4.9	mg/L				0	20	RA
L69181-03AS	AS	10/22/21 0:26	WI210921-5	49.94	4	51.2	mg/L	95	90	110			

OURAYSM

ACZ Project ID: **L69189**

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.

Chloride

SM4500CI-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530038													
WG530038LFB1	LFB	10/21/21 14:50	WI210908-11	29.97		30.44	mg/L	102	90	110			
WG530038LFB2	LFB	10/21/21 15:05	WI210908-11	29.97		30.37	mg/L	101	90	110			
L69179-14AS	AS	10/21/21 15:06	WI210908-11	29.97	45.3	74.91	mg/L	99	90	110			
L69181-01DUP	DUP	10/21/21 15:49			974	986.72	mg/L				1	20	

Chromium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529835													
WG529835ICV	ICV	10/19/21 18:17	MS211013-2	.05		.05039	mg/L	101	90	110			
WG529835ICB	ICB	10/19/21 18:18				U	mg/L		-0.0011	0.0011			
WG529835LFB	LFB	10/19/21 18:20	MS210927-3	.05		.04763	mg/L	95	85	115			
L69001-04AS	AS	10/19/21 18:48	MS210927-3	.05	U	.04482	mg/L	90	70	130			
L69001-04ASD	ASD	10/19/21 18:50	MS210927-3	.05	U	.04576	mg/L	92	70	130	2	20	

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530055													
WG530055LCSW2	LCSW	10/21/21 22:06	PCN64228	1409		1472	umhos/cm	104	90	110			
WG530055LCSW5	LCSW	10/22/21 0:44	PCN64228	1409		1469	umhos/cm	104	90	110			
WG530055LCSW8	LCSW	10/22/21 4:31	PCN64228	1409		1467	umhos/cm	104	90	110			
WG530055LCSW11	LCSW	10/22/21 8:26	PCN64228	1409		1460	umhos/cm	104	90	110			
L69253-01DUP	DUP	10/22/21 13:02			16800	16860	umhos/cm				0	20	
WG530055LCSW14	LCSW	10/22/21 13:08	PCN64228	1409		1455	umhos/cm	103	90	110			

Copper, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529835													
WG529835ICV	ICV	10/19/21 18:17	MS211013-2	.05		.05157	mg/L	103	90	110			
WG529835ICB	ICB	10/19/21 18:18				U	mg/L		-0.00176	0.00176			
WG529835LFB	LFB	10/19/21 18:20	MS210927-3	.05		.04818	mg/L	96	85	115			
L69001-04AS	AS	10/19/21 18:48	MS210927-3	.05	U	.0439	mg/L	88	70	130			
L69001-04ASD	ASD	10/19/21 18:50	MS210927-3	.05	U	.04461	mg/L	89	70	130	2	20	

Cyanide, total

M335.4 - Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529737													
WG529737ICV	ICV	10/18/21 16:38	WI211011-7	.3		.294	mg/L	98	90	110			
WG529737ICB	ICB	10/18/21 16:39				U	mg/L		-0.003	0.003			
WG529739													
WG529657LRB	LRB	10/18/21 17:14				U	mg/L		-0.003	0.003			
WG529657LFB	LFB	10/18/21 17:15	WI211011-4	.2		.1869	mg/L	93	90	110			
L69097-03DUP	DUP	10/18/21 17:29			U	U	mg/L				0	20	RA
L69097-04LFM	LFM	10/18/21 17:30	WI211011-4	.2	U	.2027	mg/L	101	90	110			

OURAYSM

ACZ Project ID: **L69189**

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.

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530110													
WG530110ICV	ICV	10/22/21 18:02	WC211019-3	2.002		2.07	mg/L	103	90	110			
WG530110ICB	ICB	10/22/21 18:06				U	mg/L		-0.3	0.3			
WG530110LFB1	LFB	10/22/21 18:13	WC210803-9	5.02		5.07	mg/L	101	90	110			
L69189-01AS	AS	10/22/21 20:40	WC210803-9	5.02	.74	5.8	mg/L	101	90	110			
L69189-01ASD	ASD	10/22/21 20:48	WC210803-9	5.02	.74	5.88	mg/L	102	90	110	1	20	
WG530110LFB2	LFB	10/22/21 22:44	WC210803-9	5.02		4.75	mg/L	95	90	110			

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529678													
WG529678ICV	ICV	10/18/21 15:41	II211014-1	2		1.98	mg/L	99	95	105			
WG529678ICB	ICB	10/18/21 15:47				U	mg/L		-0.18	0.18			
WG529678LFB	LFB	10/18/21 16:00	II210930-2	1.0001		1.03	mg/L	103	85	115			
L69178-13AS	AS	10/18/21 17:22	II210930-2	1.0001	U	1.003	mg/L	100	85	115			
L69178-13ASD	ASD	10/18/21 17:25	II210930-2	1.0001	U	1.007	mg/L	101	85	115	0	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529835													
WG529835ICV	ICV	10/19/21 18:17	MS211013-2	.05		.05264	mg/L	105	90	110			
WG529835ICB	ICB	10/19/21 18:18				U	mg/L		-0.00022	0.00022			
WG529835LFB	LFB	10/19/21 18:20	MS210927-3	.05005		.05097	mg/L	102	85	115			
L69001-04AS	AS	10/19/21 18:48	MS210927-3	.05005	U	.04994	mg/L	100	70	130			
L69001-04ASD	ASD	10/19/21 18:50	MS210927-3	.05005	U	.04996	mg/L	100	70	130	0	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529678													
WG529678ICV	ICV	10/18/21 15:41	II211014-1	100		95.94	mg/L	96	95	105			
WG529678ICB	ICB	10/18/21 15:47				U	mg/L		-0.6	0.6			
WG529678LFB	LFB	10/18/21 16:00	II210930-2	49.99828		48.71	mg/L	97	85	115			
L69178-13AS	AS	10/18/21 17:22	II210930-2	49.99828	44	90.03	mg/L	92	85	115			
L69178-13ASD	ASD	10/18/21 17:25	II210930-2	49.99828	44	91.14	mg/L	94	85	115	1	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529678													
WG529678ICV	ICV	10/18/21 15:41	II211014-1	2		1.956	mg/L	98	95	105			
WG529678ICB	ICB	10/18/21 15:47				U	mg/L		-0.03	0.03			
WG529678LFB	LFB	10/18/21 16:00	II210930-2	.5005		.512	mg/L	102	85	115			
L69178-13AS	AS	10/18/21 17:22	II210930-2	.5005	.168	.661	mg/L	99	85	115			
L69178-13ASD	ASD	10/18/21 17:25	II210930-2	.5005	.168	.66	mg/L	98	85	115	0	20	

OURAYSM

ACZ Project ID: **L69189**

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
WG529855													
WG529855ICV	ICV	10/20/21 13:52	HG211004-3	.00501		.0049	mg/L	98	90	110			
WG529855ICB	ICB	10/20/21 13:53				U	mg/L		-0.0006	0.0006			
WG529854													
WG529854LRB	LRB	10/20/21 14:44				U	mg/L		-0.00044	0.00044			
WG529854LFB	LFB	10/20/21 14:45	HG211015-3	.002002		.00195	mg/L	97	85	115			
L69192-03LFB	LFB	10/20/21 14:57	HG211015-3	.002002	U	.00194	mg/L	97	85	115			
L69192-03LFMD	LFMD	10/20/21 14:58	HG211015-3	.002002	U	.00192	mg/L	96	85	115	1	20	

Molybdenum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529835													
WG529835ICV	ICV	10/19/21 18:17	MS211013-2	.01992		.02128	mg/L	107	90	110			
WG529835ICB	ICB	10/19/21 18:18				U	mg/L		-0.00044	0.00044			
WG529835LFB	LFB	10/19/21 18:20	MS210927-3	.05005		.0512	mg/L	102	85	115			
L69001-04AS	AS	10/19/21 18:48	MS210927-3	.05005	.00254	.04998	mg/L	95	70	130			
L69001-04ASD	ASD	10/19/21 18:50	MS210927-3	.05005	.00254	.05235	mg/L	100	70	130	5	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529678													
WG529678ICV	ICV	10/18/21 15:41	II211014-1	2		1.9452	mg/L	97	95	105			
WG529678ICB	ICB	10/18/21 15:47				U	mg/L		-0.024	0.024			
WG529678LFB	LFB	10/18/21 16:00	II210930-2	.5		.4993	mg/L	100	85	115			
L69178-13AS	AS	10/18/21 17:22	II210930-2	.5	U	.4916	mg/L	98	85	115			
L69178-13ASD	ASD	10/18/21 17:25	II210930-2	.5	U	.491	mg/L	98	85	115	0	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
WG530650													
WG530650ICV	ICV	10/30/21 20:11	WI210904-1	2.4161		2.349	mg/L	97	90	110			
WG530650ICB	ICB	10/30/21 20:12				U	mg/L		-0.02	0.02			
WG530652													
WG530652LFB	LFB	10/30/21 21:14	WI211001-5	2		2.011	mg/L	101	90	110			
L69162-02AS	AS	10/30/21 21:37	WI211001-5	2	.287	2.268	mg/L	99	90	110			
L69162-03DUP	DUP	10/30/21 21:39			.124	.133	mg/L				7	20	RA

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530055													
WG530055LCSW1	LCSW	10/21/21 22:05	PCN62948	6		6.1	units	102	5.9	6.1			
WG530055LCSW4	LCSW	10/22/21 0:42	PCN62948	6		6.1	units	102	5.9	6.1			
WG530055LCSW7	LCSW	10/22/21 4:30	PCN62948	6		6.1	units	102	5.9	6.1			
WG530055LCSW10	LCSW	10/22/21 8:24	PCN62948	6		6.1	units	102	5.9	6.1			
L69253-01DUP	DUP	10/22/21 13:02			8.1	8.2	units				1	20	
WG530055LCSW13	LCSW	10/22/21 13:06	PCN62948	6		6.1	units	102	5.9	6.1			

OURAYSM

ACZ Project ID: **L69189**

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.

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

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530155													
WG530155ICV	ICV	10/24/21 22:17	WI211018-4	.65228		.685	mg/L	105	90	110			
WG530155ICB	ICB	10/24/21 22:19				U	mg/L		-0.01	0.01			
WG530157													
WG529691LRB	LRB	10/25/21 0:29				U	mg/L		-0.01	0.01			
WG529691LFB	LFB	10/25/21 0:30	WI211015-3	.5		.485	mg/L	97	90	110			
WG530157ICV	ICV	10/25/21 10:50	WI211018-4	.65228		.682	mg/L	105	90	110			
WG530157ICB	ICB	10/25/21 10:52				U	mg/L		-0.01	0.01			
L69182-01LFM	LFM	10/25/21 10:55	WI211015-3	.5	2.9	3.43	mg/L	106	90	110			
L69189-01DUP	DUP	10/25/21 11:00			115	113.58	mg/L				1	20	
WG530157ICV1	ICV	10/26/21 14:16	WI211018-4	.65228		.686	mg/L	105	90	110			
WG530157ICB1	ICB	10/26/21 14:19				U	mg/L		-0.01	0.01			

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529678													
WG529678ICV	ICV	10/18/21 15:41	II211014-1	20		19.76	mg/L	99	95	105			
WG529678ICB	ICB	10/18/21 15:47				U	mg/L		-0.6	0.6			
WG529678LFB	LFB	10/18/21 16:00	II210930-2	99.96008		99.41	mg/L	99	85	115			
L69178-13AS	AS	10/18/21 17:22	II210930-2	99.96008	.8	100.2	mg/L	99	85	115			
L69178-13ASD	ASD	10/18/21 17:25	II210930-2	99.96008	.8	102.4	mg/L	102	85	115	2	20	

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530324													
WG530324PBW	PBW	10/26/21 14:55				U	mg/L		-20	20			
WG530324LCSW	LCSW	10/26/21 14:57	PCN64127	1000		976	mg/L	98	80	120			
L69344-04DUP	DUP	10/26/21 15:26			266	268	mg/L				1	10	

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

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529742													
WG529742PBW	PBW	10/18/21 17:50				U	mg/L		-5	5			
WG529742LCSW	LCSW	10/18/21 17:53	PCN64122	100		103	mg/L	103	80	120			
L69234-06DUP	DUP	10/18/21 18:20			U	U	mg/L				0	10	RA

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529835													
WG529835ICV	ICV	10/19/21 18:17	MS211013-2	.05		.0505	mg/L	101	90	110			
WG529835ICB	ICB	10/19/21 18:18				U	mg/L		-0.00022	0.00022			
WG529835LFB	LFB	10/19/21 18:20	MS210927-3	.05		.04732	mg/L	95	85	115			
L69001-04AS	AS	10/19/21 18:48	MS210927-3	.05	.00023	.05029	mg/L	100	70	130			
L69001-04ASD	ASD	10/19/21 18:50	MS210927-3	.05	.00023	.05087	mg/L	101	70	130	1	20	

OURAYSM

ACZ Project ID: **L69189**

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.

Silica, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529678													
WG529678ICV	ICV	10/18/21 15:41	II211014-1	42.8		43.26	mg/L	101	95	105			
WG529678ICB	ICB	10/18/21 15:47				U	mg/L		-0.6	0.6			
WG529678LFB	LFB	10/18/21 16:00	II210930-2	21.404		22.32	mg/L	104	85	115			
L69178-13AS	AS	10/18/21 17:22	II210930-2	21.404	30.7	51.76	mg/L	98	85	115			
L69178-13ASD	ASD	10/18/21 17:25	II210930-2	21.404	30.7	51.89	mg/L	99	85	115	0	20	

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529835													
WG529835ICV	ICV	10/19/21 18:17	MS211013-2	.02		.02089	mg/L	104	90	110			
WG529835ICB	ICB	10/19/21 18:18				U	mg/L		-0.00022	0.00022			
WG529835LFB	LFB	10/19/21 18:20	MS210927-3	.01		.00955	mg/L	96	85	115			
L69001-04AS	AS	10/19/21 18:48	MS210927-3	.01	U	.0072	mg/L	72	70	130			
L69001-04ASD	ASD	10/19/21 18:50	MS210927-3	.01	U	.00625	mg/L	63	70	130	14	20	M2 ZA

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529678													
WG529678ICV	ICV	10/18/21 15:41	II211014-1	100		99.28	mg/L	99	95	105			
WG529678ICB	ICB	10/18/21 15:47				U	mg/L		-0.6	0.6			
WG529678LFB	LFB	10/18/21 16:00	II210930-2	100.007		100.4	mg/L	100	85	115			
L69178-13AS	AS	10/18/21 17:22	II210930-2	100.007	123	217.8	mg/L	95	85	115			
L69178-13ASD	ASD	10/18/21 17:25	II210930-2	100.007	123	220.8	mg/L	98	85	115	1	20	

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530153													
WG530153ICB	ICB	10/24/21 18:28				U	mg/L		-3	3			
WG530153ICV	ICV	10/24/21 18:28	WI211012-1	20.46		19.1	mg/L	93	90	110			
WG530153LFB	LFB	10/24/21 20:35	WI210105-3	10		9.6	mg/L	96	90	110			
L69190-03DUP	DUP	10/24/21 20:50			64.1	62.8	mg/L				2	20	
L69190-04AS	AS	10/24/21 20:50	SO4TURB5X	10	71.6	81	mg/L	94	90	110			

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529835													
WG529835ICV	ICV	10/19/21 18:17	MS211013-2	.05		.0542	mg/L	108	90	110			
WG529835ICB	ICB	10/19/21 18:18				U	mg/L		-0.00022	0.00022			
WG529835LFB	LFB	10/19/21 18:20	MS210927-3	.05		.04965	mg/L	99	85	115			
L69001-04AS	AS	10/19/21 18:48	MS210927-3	.05	U	.05078	mg/L	102	70	130			
L69001-04ASD	ASD	10/19/21 18:50	MS210927-3	.05	U	.0504	mg/L	101	70	130	1	20	

OURAYSM

ACZ Project ID: **L69189**

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.

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529835													
WG529835ICV	ICV	10/19/21 18:17	MS211013-2	.05		.05263	mg/L	105	90	110			
WG529835ICB	ICB	10/19/21 18:18				U	mg/L		-0.00022	0.00022			
WG529835LFB	LFB	10/19/21 18:20	MS210927-3	.05		.05036	mg/L	101	85	115			
L69001-04AS	AS	10/19/21 18:48	MS210927-3	.05	.00298	.0549	mg/L	104	70	130			
L69001-04ASD	ASD	10/19/21 18:50	MS210927-3	.05	.00298	.05486	mg/L	104	70	130	0	20	

Vanadium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529678													
WG529678ICV	ICV	10/18/21 15:41	II211014-1	2		1.957	mg/L	98	95	105			
WG529678ICB	ICB	10/18/21 15:47				U	mg/L		-0.015	0.015			
WG529678LFB	LFB	10/18/21 16:00	II210930-2	.5005		.5022	mg/L	100	85	115			
L69178-13AS	AS	10/18/21 17:22	II210930-2	.5005	U	.5014	mg/L	100	85	115			
L69178-13ASD	ASD	10/18/21 17:25	II210930-2	.5005	U	.51	mg/L	102	85	115	2	20	

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529678													
WG529678ICV	ICV	10/18/21 15:41	II211014-1	2		1.968	mg/L	98	95	105			
WG529678ICB	ICB	10/18/21 15:47				U	mg/L		-0.06	0.06			
WG529678LFB	LFB	10/18/21 16:00	II210930-2	.50045		.522	mg/L	104	85	115			
L69178-13AS	AS	10/18/21 17:22	II210930-2	.50045	.182	.689	mg/L	101	85	115			
L69178-13ASD	ASD	10/18/21 17:25	II210930-2	.50045	.182	.702	mg/L	104	85	115	2	20	

Ouray Silver Mines

ACZ Project ID: **L69189**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L69189-01	WG529870	Carbon, total organic (TOC)	SM5310B	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).
	WG530055	Conductivity @25C	SM2510B	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
	WG529739	Cyanide, total	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).
	WG530652	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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).
	WG530055	pH	SM4500H+ B	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
	WG529691	Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion	DF	Sample required dilution due to high sediment.
	WG530324	Residue, Filterable (TDS) @180C	SM2540C	H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
			SM2540C	Q12	A filtered sample was used for analysis because an unfiltered sample was not available.
	WG529742	Residue, Non-Filterable (TSS) @105C	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).
	WG529835	Silver, dissolved	M200.8 ICP-MS	BE	Target analyte in continuing calibration blank (CCB) at or above the acceptance criteria. Target analyte was not detected in the sample [< MDL].
			M200.8 ICP-MS	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M200.8 ICP-MS	ZA	Poor recovery for Silver quality control is accepted due to low Silver solubility in samples, digestates, or extracts that do not contain sufficient Hydrochloric acid.
	WG530055	Total Alkalinity	SM2320B - Titration	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.

Ouray Silver Mines

ACZ Project ID: **L69189**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L69189

Date Received: 10/13/2021 10:47

Received By:

Date Printed: 10/14/2021

Receipt Verification

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

Samples/Containers

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

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?
-----	-----	-----	-----	-----
6681	3.1	<=6.0	15	Yes

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.

Ouray Silver Mines

ACZ Project ID: L69189

Date Received: 10/13/2021 10:47

Received By:

Date Printed: 10/14/2021

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).

**Laboratories, Inc.**

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

CHAIN of CUSTODY

Report to:

Name: Briana Greer	Address: 112 Village Square W Suite 205.
Company: Solid Solution Geosciences LLC	Ridgway CO, 81432
E-mail: briana@solidsolutiongeosciences.com.com	Telephone: 307-760-8838

Copy of Report to:

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

Invoice to:

Name: Ashlee Briggs	Address: PO BOX 564
Company: Ouray Silver Mines Inc.	Ouray, CO 81427
E-mail: abriggs@ouraysilvermines.com	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 ☒
NO ☐

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 ☒

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

Sampler's Name: Joshua A. Moore Sampler's Site Information State CO Zip code 81427 Time Zone Mtn

*Sampler's Signature: *Joshua A. Moore*

*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

ANALYSES REQUESTED (attach list or use quote number)

Quote #: GW	PO#:	Reporting state for compliance testing: CO	Check box if samples include NRC licensed material? ☐	SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	GW	TOC								
Mill Water					10/11/21 13:44	Other	6	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐
								☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
								☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
								☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
								☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
								☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
								☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
								☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
								☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
								☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
								☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
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October 29, 2021

Report to:
Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Environmental, Accounts Payable

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

Project ID:
ACZ Project ID: L69211

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 14, 2021. This project has been assigned to ACZ's project number, L69211. 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 L69211. 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 November 28, 2021. 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.



Ouray Silver Mines

Project ID:

Sample ID: OF002A

ACZ Sample ID: **L69211-01**

Date Sampled: 10/13/21 12:25

Date Received: 10/14/21

Sample Matrix: Waste Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002- 31.5.31 (2009)								10/17/21 9:09	ssr
Cyanide, WAD	SM4500-CN I- distillation								10/25/21 14:27	bls/mjj
Total Hot Plate Digestion	M200.2 ICP								10/22/21 14:57	jlw
Total Recoverable Digestion	M200.2 ICP								10/19/21 16:24	kja

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, potentially dissolved	M200.8 ICP-MS	1	0.000257			mg/L	0.00005	0.00025	10/19/21 10:35	mfm
Copper, potentially dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	10/19/21 10:35	mfm
Iron, total recoverable	M200.7 ICP	1	0.179			mg/L	0.06	0.15	10/20/21 11:52	kja
Lead, potentially dissolved	M200.8 ICP-MS	1	0.00461			mg/L	0.0001	0.0005	10/19/21 10:35	mfm
Lead, total	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.15	10/24/21 12:00	kja
Manganese, potentially dissolved	M200.8 ICP-MS	1	0.368			mg/L	0.0004	0.002	10/19/21 10:35	mfm
Mercury, total	M245.1 CVAA	1	0.00025	B		mg/L	0.0002	0.001	10/20/21 14:25	aeH
Silver, potentially dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/26/21 17:16	mfm
Zinc, potentially dissolved	M200.8 ICP-MS	1	0.109		*	mg/L	0.006	0.015	10/19/21 10:35	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	10/26/21 16:59	wtc
pH (lab)	SM4500H+ B									
pH		1	8.6	H		units	0.1	0.1	10/15/21 0:00	jck
pH measured at		1	22.1			C	0.1	0.1	10/15/21 0:00	jck
Residue, Non- Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	10/19/21 19:54	jck

Ouray Silver Mines

Project ID:

Sample ID: OF002A

ACZ Sample ID: **L69211-02**

Date Sampled: 10/13/21 12:00

Date Received: 10/14/21

Sample Matrix: *Waste Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Hot Plate Digestion	M200.2 ICP-MS								10/18/21 10:30	bsu
Total Recoverable Digestion	M200.2 ICP-MS								10/19/21 11:06	bsu

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, total recoverable	M200.8 ICP-MS	1	0.00102			mg/L	0.0002	0.001	10/21/21 17:54	mfm
Cadmium, total	M200.8 ICP-MS	1	0.000251			mg/L	0.00005	0.00025	10/19/21 22:04	bsu
Chromium, total recoverable	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/21/21 17:54	mfm
Chromium, Trivalent Total Recoverable	Calculation (Total Recoverable - Hexavalent)		<0.005	U		mg/L	0.005	0.02	10/29/21 0:00	calc
Copper, total	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	10/19/21 22:04	bsu
Mercury, total	M1631E, Atomic Fluorescence	1	1.70			ng/L	0.3	1	10/21/21 11:07	mfm
Zinc, total	M200.8 ICP-MS	1	0.111			mg/L	0.006	0.015	10/20/21 13:07	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Dissolved Chromium, Hexavalent	SM3500Cr-B	1	<0.005	U	*	mg/L	0.005	0.02	10/14/21 11:01	scd
Residue, Filterable (TDS) @180C	SM2540C	1	214			mg/L	20	40	10/19/21 14:16	anc

Ouray Silver Mines

Project ID:

Sample ID: HGTRIP BLANK

ACZ Sample ID: **L69211-03**

Date Sampled: 10/13/21 12:00

Date Received: 10/14/21

Sample Matrix: *Waste Water*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Mercury, total	M1631E, Atomic Fluorescence	1	<0.3	U		ng/L	0.3	1	10/21/21 11:12	mfm

Report Header Explanations

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

QC Sample Types

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

OURAYSM

ACZ Project ID: **L69211**

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.

Arsenic, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530052													
WG530052ICV	ICV	10/21/21 17:39	MS211013-2	.05		.05048	mg/L	101	90	110			
WG530052ICB	ICB	10/21/21 17:41				U	mg/L		-0.0006	0.0006			
WG529745LRB	LRB	10/21/21 17:43				U	mg/L		-0.00044	0.00044			
WG529745LFB	LFB	10/21/21 17:45	MS210927-3	.05005		.04952	mg/L	99	85	115			
L69218-01LFM	LFM	10/21/21 17:57	MS210927-3	.05005	U	.04465	mg/L	89	70	130			
L69218-01LFMD	LFMD	10/21/21 17:59	MS210927-3	.05005	U	.04406	mg/L	88	70	130	1	20	
WG529849LRB	LRB	10/21/21 18:12				U	mg/L		-0.00044	0.00044			
WG529849LFB	LFB	10/21/21 18:14	MS210927-3	.05005		.04889	mg/L	98	85	115			

Cadmium, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529760													
WG529760ICV	ICV	10/19/21 9:59	MS211013-2	.05		.052985	mg/L	106	90	110			
WG529760ICB	ICB	10/19/21 10:00				U	mg/L		-0.00011	0.00011			
WG529760LFB	LFB	10/19/21 10:10	MS210927-3	.05005		.051996	mg/L	104	85	115			
WG529266PBW	PBW	10/19/21 10:12				U	mg/L		-0.00015	0.00015			
WG529635PBW	PBW	10/19/21 10:21				U	mg/L		-0.00015	0.00015			
L69176-01AS	AS	10/19/21 10:24	MS210927-3	.05005	U	.049335	mg/L	99	70	130			
L69176-01ASD	ASD	10/19/21 10:26	MS210927-3	.05005	U	.049439	mg/L	99	70	130	0	20	

Cadmium, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529836													
WG529836ICV	ICV	10/19/21 21:12	MS211013-2	.05		.053874	mg/L	108	90	110			
WG529836ICB	ICB	10/19/21 21:14				U	mg/L		-0.00015	0.00015			
WG529637LRB	LRB	10/19/21 21:15				U	mg/L		-0.00011	0.00011			
WG529637LFB	LFB	10/19/21 21:17	MS210927-3	.05005		.047128	mg/L	94	85	115			
L69208-05LFM	LFM	10/19/21 22:01	MS210927-3	.05005	U	.046384	mg/L	93	70	130			
L69208-05LFMD	LFMD	10/19/21 22:03	MS210927-3	.05005	U	.046691	mg/L	93	70	130	1	20	

Chromium, total recoverable

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530052													
WG530052ICV	ICV	10/21/21 17:39	MS211013-2	.05		.052	mg/L	104	90	110			
WG530052ICB	ICB	10/21/21 17:41				U	mg/L		-0.0015	0.0015			
WG529745LRB	LRB	10/21/21 17:43				U	mg/L		-0.0011	0.0011			
WG529745LFB	LFB	10/21/21 17:45	MS210927-3	.05		.05001	mg/L	100	85	115			
L69218-01LFM	LFM	10/21/21 17:57	MS210927-3	.05	U	.04568	mg/L	91	70	130			
L69218-01LFMD	LFMD	10/21/21 17:59	MS210927-3	.05	U	.04465	mg/L	89	70	130	2	20	
WG529849LRB	LRB	10/21/21 18:12				U	mg/L		-0.0011	0.0011			
WG529849LFB	LFB	10/21/21 18:14	MS210927-3	.05		.05061	mg/L	101	85	115			

OURAYSM

ACZ Project ID: **L69211**

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.

Copper, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529760													
WG529760ICV	ICV	10/19/21 9:59	MS211013-2	.05		.05062	mg/L	101	90	110			
WG529760ICB	ICB	10/19/21 10:00				U	mg/L		-0.00176	0.00176			
WG529760LFB	LFB	10/19/21 10:10	MS210927-3	.05		.05112	mg/L	102	85	115			
WG529266PBW	PBW	10/19/21 10:12				U	mg/L		-0.0024	0.0024			
WG529635PBW	PBW	10/19/21 10:21				U	mg/L		-0.0024	0.0024			
L69176-01AS	AS	10/19/21 10:24	MS210927-3	.05	U	.04109	mg/L	82	70	130			
L69176-01ASD	ASD	10/19/21 10:26	MS210927-3	.05	U	.04142	mg/L	83	70	130	1	20	

Copper, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529836													
WG529836ICV	ICV	10/19/21 21:12	MS211013-2	.05		.05374	mg/L	107	90	110			
WG529836ICB	ICB	10/19/21 21:14				U	mg/L		-0.0024	0.0024			
WG529637LRB	LRB	10/19/21 21:15				U	mg/L		-0.00176	0.00176			
WG529637LFB	LFB	10/19/21 21:17	MS210927-3	.05		.04979	mg/L	100	85	115			
L69208-05LFM	LFM	10/19/21 22:01	MS210927-3	.05	U	.04758	mg/L	95	70	130			
L69208-05LFMD	LFMD	10/19/21 22:03	MS210927-3	.05	U	.04874	mg/L	97	70	130	2	20	

Cyanide, WAD

SM4500-CN I,E-Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530333													
WG530333ICV	ICV	10/26/21 16:45	WI211026-7	.3		.3045	mg/L	102	90	110			
WG530333ICB	ICB	10/26/21 16:45				U	mg/L		-0.003	0.003			
WG530162LRB	LRB	10/26/21 16:46				U	mg/L		-0.003	0.003			
WG530162LFB	LFB	10/26/21 16:47	WI211011-6	.2		.1994	mg/L	100	90	110			
L69207-06DUP	DUP	10/26/21 16:57			U	.0037	mg/L				200	20	RA
L69207-07LFM	LFM	10/26/21 16:58	WI211011-6	.2	U	.1959	mg/L	98	90	110			

Dissolved Chromium, Hexavalent

SM3500Cr-B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529445													
WG529445ICV	ICV	10/14/21 10:36	WC210708-5	.05		.0479	mg/L	96	90	110			
WG529445ICB	ICB	10/14/21 10:44				U	mg/L		-0.005	0.005			
WG529445LFB	LFB	10/14/21 10:52	WC210708-7	.05		.0508	mg/L	102	90	110			
L69211-02AS	AS	10/14/21 11:09	WC210708-7	.05	U	.0452	mg/L	90	90	110			
L69211-02DUP	DUP	10/14/21 11:17			U	U	mg/L				0	20	RA

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529857													
WG529857ICV	ICV	10/20/21 10:20	II211014-1	2		1.953	mg/L	98	95	105			
WG529857ICB	ICB	10/20/21 10:26				U	mg/L		-0.18	0.18			
WG529754LRB	LRB	10/20/21 10:39				U	mg/L		-0.132	0.132			
WG529754LFB	LFB	10/20/21 10:42	II211018-2	1.0001		.972	mg/L	97	85	115			
L69211-01LFM	LFM	10/20/21 11:55	II211018-2	1.0001	.179	1.219	mg/L	104	70	130			
L69211-01LFMD	LFMD	10/20/21 11:58	II211018-2	1.0001	.179	1.187	mg/L	101	70	130	3	20	

OURAYSM

ACZ Project ID: **L69211**

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.

Lead, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529760													
WG529760ICV	ICV	10/19/21 9:59	MS211013-2	.05		.05306	mg/L	106	90	110			
WG529760ICB	ICB	10/19/21 10:00				U	mg/L		-0.00022	0.00022			
WG529760LFB	LFB	10/19/21 10:10	MS210927-3	.05005		.0534	mg/L	107	85	115			
WG529266PBW	PBW	10/19/21 10:12				U	mg/L		-0.0003	0.0003			
WG529635PBW	PBW	10/19/21 10:21				U	mg/L		-0.0003	0.0003			
L69176-01AS	AS	10/19/21 10:24	MS210927-3	.05005	U	.04238	mg/L	85	70	130			
L69176-01ASD	ASD	10/19/21 10:26	MS210927-3	.05005	U	.04306	mg/L	86	70	130	2	20	

Lead, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530138													
WG530138ICV	ICV	10/24/21 11:35	II211013-1	4		3.932	mg/L	98	95	105			
WG530138ICB	ICB	10/24/21 11:41				U	mg/L		-0.09	0.09			
WG530094LRB	LRB	10/24/21 11:54				U	mg/L		-0.066	0.066			
WG530094LFB	LFB	10/24/21 11:57	II211018-2	1.0014		1.039	mg/L	104	85	115			
L69234-06LFM	LFM	10/24/21 12:09	II211018-2	1.0014	U	1.022	mg/L	102	70	130			
L69234-06LFMD	LFMD	10/24/21 12:12	II211018-2	1.0014	U	1.007	mg/L	101	70	130	1	20	

Manganese, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529760													
WG529760ICV	ICV	10/19/21 9:59	MS211013-2	.05		.05223	mg/L	104	90	110			
WG529760ICB	ICB	10/19/21 10:00				U	mg/L		-0.00088	0.00088			
WG529760LFB	LFB	10/19/21 10:10	MS210927-3	.0499		.05208	mg/L	104	85	115			
WG529266PBW	PBW	10/19/21 10:12				U	mg/L		-0.0012	0.0012			
WG529635PBW	PBW	10/19/21 10:21				U	mg/L		-0.0012	0.0012			
L69176-01AS	AS	10/19/21 10:24	MS210927-3	.0499	.0218	.05805	mg/L	73	70	130			
L69176-01ASD	ASD	10/19/21 10:26	MS210927-3	.0499	.0218	.05875	mg/L	74	70	130	1	20	

OURAYSM

ACZ Project ID: **L69211**

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, total

M1631E, Atomic Fluorescence

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG523056													
WG523056ICV1	ICV	07/13/21 11:31	HG210709-4	10		10.2	ng/L	102	79	121			
WG523056ICB1	ICB	07/13/21 11:36				U	ng/L		-0.501	0.501			
WG529980													
WG529980CCV1	CCV	10/21/21 8:23	HG211011-4	10		10.7	ng/L	107	76.5	123.4			
WG529980CCB1	CCB	10/21/21 8:27				U	ng/L		-0.501	0.501			
WG529980LFB	LFB	10/21/21 8:37	HG211011-5	2		2.28	ng/L	114	71	125			
WG529980PQV1	PQV	10/21/21 9:04	HG211011-6	1		1.17	ng/L	117	70	130			
L69199-02MS	MS	10/21/21 10:34	HG211011-5	2	.32	2.24	ng/L	96	71	125			
L69199-02MSD	MSD	10/21/21 10:39	HG211011-5	2	.32	2.21	ng/L	95	71	125	1	24	
WG529980CCV2	CCV	10/21/21 10:43	HG211011-4	10		10.2	ng/L	102	76.5	123.4			
WG529980CCB2	CCB	10/21/21 10:48				U	ng/L		-0.501	0.501			
WG529980CCV3	CCV	10/21/21 11:41	HG211011-4	10		10.1	ng/L	101	76.5	123.4			
WG529980CCB3	CCB	10/21/21 11:45				U	ng/L		-0.501	0.501			
WG529980CCV4	CCV	10/21/21 12:24	HG211011-4	10		10.7	ng/L	107	76.5	123.4			
WG529980CCB4	CCB	10/21/21 12:28				U	ng/L		-0.501	0.501			

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529855													
WG529855ICV	ICV	10/20/21 13:52	HG211004-3	.00501		.0049	mg/L	98	90	110			
WG529855ICB	ICB	10/20/21 13:53				U	mg/L		-0.0006	0.0006			
WG529853													
WG529853LRB	LRB	10/20/21 14:10				U	mg/L		-0.00044	0.00044			
WG529853LFB	LFB	10/20/21 14:11	HG211015-3	.002002		.00186	mg/L	93	85	115			
L69235-02LFM	LFM	10/20/21 14:32	HG211015-3	.002002	U	.00195	mg/L	97	85	115			
L69235-02LFMD	LFMD	10/20/21 14:33	HG211015-3	.002002	U	.00188	mg/L	94	85	115	4	20	

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529511													
WG529511LCSW1	LCSW	10/14/21 18:40	PCN62948	6		6.1	units	102	5.9	6.1			
WG529511LCSW4	LCSW	10/14/21 22:15	PCN62948	6		6.1	units	102	5.9	6.1			
WG529511LCSW7	LCSW	10/15/21 2:08	PCN62948	6		6.1	units	102	5.9	6.1			
WG529511LCSW10	LCSW	10/15/21 5:46	PCN62948	6		6.1	units	102	5.9	6.1			
L69220-01DUP	DUP	10/15/21 7:25			8.3	8.3	units				0	20	
WG529511LCSW13	LCSW	10/15/21 9:26	PCN62948	6		6.1	units	102	5.9	6.1			

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529818													
WG529818PBW	PBW	10/19/21 14:09				U	mg/L		-20	20			
WG529818LCSW	LCSW	10/19/21 14:11	PCN64122	1000		980	mg/L	98	80	120			
L69220-02DUP	DUP	10/19/21 14:29			1530	1534	mg/L				0	10	

OURAYSM

ACZ Project ID: **L69211**

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.

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

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529841													
WG529841PBW	PBW	10/19/21 19:35				U	mg/L		-2	2			
WG529841LCSW	LCSW	10/19/21 19:37	PCN64122	100		106	mg/L	106	80	120			
L69262-01DUP	DUP	10/19/21 20:01			U	U	mg/L				0	10	RA

Silver, potentially dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530334													
WG530334ICV	ICV	10/26/21 17:05	MS211013-2	.02		.02094	mg/L	105	90	110			
WG530334ICB	ICB	10/26/21 17:07				U	mg/L		-0.00022	0.00022			
WG530334LFB	LFB	10/26/21 17:09	MS210927-3	.01		.00946	mg/L	95	85	115			
WG529635PBW	PBW	10/26/21 17:11				U	mg/L		-0.0003	0.0003			
WG529740PBW	PBW	10/26/21 17:20				U	mg/L		-0.0003	0.0003			
L69338-01AS	AS	10/26/21 17:23	MS210927-3	.01	U	.00818	mg/L	82	70	130			
L69338-01ASD	ASD	10/26/21 17:25	MS210927-3	.01	U	.00743	mg/L	74	70	130	10	20	
WG529991PBW	PBW	10/26/21 17:31				U	mg/L		-0.0003	0.0003			

Zinc, potentially dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529760													
WG529760ICV	ICV	10/19/21 9:59	MS211013-2	.05		.0505	mg/L	101	90	110			
WG529760ICB	ICB	10/19/21 10:00				U	mg/L		-0.0132	0.0132			
WG529760LFB	LFB	10/19/21 10:10	MS210927-3	.050075		.0542	mg/L	108	85	115			
WG529266PBW	PBW	10/19/21 10:12				U	mg/L		-0.018	0.018			
WG529635PBW	PBW	10/19/21 10:21				U	mg/L		-0.018	0.018			
L69176-01AS	AS	10/19/21 10:24	MS210927-3	.050075	U	.0348	mg/L	69	70	130			MA
L69176-01ASD	ASD	10/19/21 10:26	MS210927-3	.050075	U	.035	mg/L	70	70	130	1	20	

Zinc, total M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG529896													
WG529896ICV	ICV	10/20/21 12:08	MS211013-2	.05		.0509	mg/L	102	90	110			
WG529896ICB	ICB	10/20/21 12:11				U	mg/L		-0.018	0.018			
WG529637LRB	LRB	10/20/21 12:13				U	mg/L		-0.0132	0.0132			
WG529637LFB	LFB	10/20/21 12:15	MS210927-3	.050075		.0546	mg/L	109	85	115			
L69208-05LFM	LFM	10/20/21 12:58	MS210927-3	.050075	U	.0621	mg/L	124	70	130			
L69208-05LFMD	LFMD	10/20/21 13:00	MS210927-3	.050075	U	.0628	mg/L	125	70	130	1	20	

Ouray Silver Mines

ACZ Project ID: **L69211**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L69211-01	WG530333	Cyanide, WAD	SM4500-CN I,E-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).
	WG529841	Residue, Non-Filterable (TSS) @105C	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
	WG529760	Zinc, potentially dissolved	M200.8 ICP-MS	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
L69211-02	WG529445	Dissolved Chromium, Hexavalent	SM3500Cr-B	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).

Ouray Silver Mines

ACZ Project ID: **L69211**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L69211

Date Received: 10/14/2021 08:48

Received By:

Date Printed: 10/14/2021

Receipt Verification

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

Samples/Containers

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

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?
-----	-----	-----	-----	-----
4062	0.5	<=6.0	15	Yes

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.

Ouray Silver Mines

ACZ Project ID: L69211

Date Received: 10/14/2021 08:48

Received By:

Date Printed: 10/14/2021

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).



Laboratories, Inc.

69211

CHAIN of CUSTODY

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

Report to:

Name: Briana Greer
Company: Solid Solution Geosciences LLC
E-mail: briana@solidsolutiongeosciences.com.com

Address: 112 Village Square W Suite 205.
Ridgway CO, 81432
Telephone: 307-760-8838

Copy of Report to:

Name: Environmental
Company: Ouray Silver Mines Inc.

E-mail: environmental@ouraysilvermines.com
Telephone: 970-325-9830

Invoice to:

Name: Ashlee Briggs
Company: Ouray Silver Mines Inc.
E-mail: abriggs@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 ☒
NO ☐

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 ☒

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

Sampler's Name: Joshua A. Moore Sampler's Site Information State CO Zip code 81427 Time Zone Mtn

*Sampler's Signature: *Joshua A. Moore*

*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

ANALYSES REQUESTED (attach list or use quote number)

Quote #: CDPS-BIMONTH-VW and CDPS-QUART-VW

PO#:

Reporting state for compliance testing: CO

Check box if samples include NRC licensed material? ☐

SAMPLE IDENTIFICATION DATE: TIME Matrix

SAMPLE IDENTIFICATION	DATE: TIME	Matrix	# of Containers	CDPS-BIMONTH-VW	CDPS-QUART_VW														
OF002A	10/13/21 12:25	WW	4	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
OF002A	10/13/21 12:00	WW	4	☐	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
HG Trip Blank	10/13/21 12:00		1	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

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

Joshua A. Moore

10/13/21 15:00

MM

10/14/21

3:48

November 05, 2021

Report to:

Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Environmental, Accounts Payable

Bill to:

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

Project ID:

ACZ Project ID: L69421

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 21, 2021. This project has been assigned to ACZ's project number, L69421. 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 L69421. 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 December 05, 2021. 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: OF002A

ACZ Sample ID: **L69421-01**

Date Sampled: 10/20/21 12:25

Date Received: 10/21/21

Sample Matrix: Waste Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002- 31.5.31 (2009)								10/24/21 9:47	ssr
Cyanide, WAD	SM4500-CN I- distillation								11/03/21 10:33	mjj1
Total Hot Plate Digestion	M200.2 ICP								10/26/21 20:50	jlw
Total Recoverable Digestion	M200.2 ICP								10/26/21 19:53	jlw

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, potentially dissolved	M200.8 ICP-MS	1	0.000307			mg/L	0.00005	0.00025	11/01/21 15:16	scp
Copper, potentially dissolved	M200.8 ICP-MS	1	<0.0008	U	*	mg/L	0.0008	0.002	11/01/21 15:16	scp
Iron, total recoverable	M200.7 ICP	1	0.107	B		mg/L	0.06	0.15	10/27/21 15:56	jlw
Lead, potentially dissolved	M200.8 ICP-MS	1	0.00313			mg/L	0.0001	0.0005	11/01/21 15:16	scp
Lead, total	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.15	10/27/21 11:22	jlw
Manganese, potentially dissolved	M200.8 ICP-MS	1	0.390			mg/L	0.0004	0.002	11/01/21 15:16	scp
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/27/21 10:07	mlh
Silver, potentially dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/01/21 15:16	scp
Zinc, potentially dissolved	M200.8 ICP-MS	1	0.117			mg/L	0.006	0.015	11/01/21 15:16	scp

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	11/03/21 16:23	md
pH (lab)	SM4500H+ B									
pH		1	8.3	H		units	0.1	0.1	10/27/21 0:00	jck
pH measured at		1	22.4			C	0.1	0.1	10/27/21 0:00	jck
Residue, Non- Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	10/25/21 13:56	anc


Report Header Explanations

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

QC Sample Types

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

OURAYSM

ACZ Project ID: **L69421**

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.

Cadmium, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530739													
WG530739ICV	ICV	11/01/21 14:56	MS211013-2	.05		.048797	mg/L	98	90	110			
WG530739ICB	ICB	11/01/21 14:59				U	mg/L		-0.00011	0.00011			
WG530739LFB1	LFB	11/01/21 15:01	MS210927-3	.05005		.049312	mg/L	99	85	115			
WG530137PBW	PBW	11/01/21 15:03				U	mg/L		-0.00015	0.00015			
L69414-01AS	AS	11/01/21 15:08	MS210927-3	.05005	.000122	.052871	mg/L	105	70	130			
L69414-01ASD	ASD	11/01/21 15:10	MS210927-3	.05005	.000122	.049754	mg/L	99	70	130	6	20	
WG530322PBW	PBW	11/01/21 15:32				U	mg/L		-0.00015	0.00015			
WG530620PBW	PBW	11/01/21 15:36				U	mg/L		-0.00015	0.00015			
WG530739LFB2	LFB	11/01/21 16:29	MS210927-3	.05005		.04947	mg/L	99	85	115			

Copper, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530739													
WG530739ICV	ICV	11/01/21 14:56	MS211013-2	.05		.04814	mg/L	96	90	110			
WG530739ICB	ICB	11/01/21 14:59				U	mg/L		-0.00176	0.00176			
WG530739LFB1	LFB	11/01/21 15:01	MS210927-3	.05		.04696	mg/L	94	85	115			
WG530137PBW	PBW	11/01/21 15:03				U	mg/L		-0.0024	0.0024			
L69414-01AS	AS	11/01/21 15:08	MS210927-3	.05	.00582	.04272	mg/L	74	70	130			
L69414-01ASD	ASD	11/01/21 15:10	MS210927-3	.05	.00582	.04028	mg/L	69	70	130	6	20	MA
WG530322PBW	PBW	11/01/21 15:32				U	mg/L		-0.0024	0.0024			
WG530620PBW	PBW	11/01/21 15:36				U	mg/L		-0.0024	0.0024			
WG530739LFB2	LFB	11/01/21 16:29	MS210927-3	.05		.04581	mg/L	92	85	115			

Cyanide, WAD

SM4500-CN I,E-Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530956													
WG530956ICV	ICV	11/03/21 16:19	WI211027-5	.3		.3059	mg/L	102	90	110			
WG530956ICB	ICB	11/03/21 16:20				U	mg/L		-0.003	0.003			
WG530885LRB	LRB	11/03/21 16:21				U	mg/L		-0.003	0.003			
WG530885LFB	LFB	11/03/21 16:22	WI211026-4	.2		.1988	mg/L	99	90	110			
L69421-01DUP	DUP	11/03/21 16:24			U	U	mg/L				0	20	RA
L69438-01LFM	LFM	11/03/21 16:27	WI211026-4	.2	U	.197	mg/L	99	90	110			

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530374													
WG530374ICV	ICV	10/27/21 14:20	II211014-1	2		1.945	mg/L	97	95	105			
WG530374ICB	ICB	10/27/21 14:26				U	mg/L		-0.18	0.18			
WG530308LRB	LRB	10/27/21 14:39				U	mg/L		-0.132	0.132			
WG530308LFB	LFB	10/27/21 14:42	II211024-2	1.0001		.994	mg/L	99	85	115			
L69456-01LFM	LFM	10/27/21 16:02	II211024-2	1.0001	.371	1.426	mg/L	105	70	130			
L69456-01LFMD	LFMD	10/27/21 16:05	II211024-2	1.0001	.371	1.433	mg/L	106	70	130	0	20	

OURAYSM

ACZ Project ID: **L69421**

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.

Lead, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530739													
WG530739ICV	ICV	11/01/21 14:56	MS211013-2	.05		.0494	mg/L	99	90	110			
WG530739ICB	ICB	11/01/21 14:59				U	mg/L		-0.00022	0.00022			
WG530739LFB1	LFB	11/01/21 15:01	MS210927-3	.05005		.04946	mg/L	99	85	115			
WG530137PBW	PBW	11/01/21 15:03				U	mg/L		-0.0003	0.0003			
L69414-01AS	AS	11/01/21 15:08	MS210927-3	.05005	.00047	.05892	mg/L	117	70	130			
L69414-01ASD	ASD	11/01/21 15:10	MS210927-3	.05005	.00047	.05513	mg/L	109	70	130	7	20	
WG530322PBW	PBW	11/01/21 15:32				U	mg/L		-0.0003	0.0003			
WG530620PBW	PBW	11/01/21 15:36				U	mg/L		-0.0003	0.0003			
WG530739LFB2	LFB	11/01/21 16:29	MS210927-3	.05005		.05022	mg/L	100	85	115			

Lead, total

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530364													
WG530364ICV	ICV	10/27/21 9:31	II211013-1	4		3.992	mg/L	100	95	105			
WG530364ICB	ICB	10/27/21 9:37				U	mg/L		-0.09	0.09			
WG530305LRB	LRB	10/27/21 9:50				U	mg/L		-0.066	0.066			
WG530305LFB	LFB	10/27/21 9:53	II211024-2	1.0014		1.016	mg/L	101	85	115			
L69415-04LFM	LFM	10/27/21 10:57	II211024-2	1.0014	U	.889	mg/L	89	70	130			
L69415-04LFMD	LFMD	10/27/21 11:06	II211024-2	1.0014	U	.927	mg/L	93	70	130	4	20	

Manganese, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530739													
WG530739ICV	ICV	11/01/21 14:56	MS211013-2	.05		.0503	mg/L	101	90	110			
WG530739ICB	ICB	11/01/21 14:59				U	mg/L		-0.00088	0.00088			
WG530739LFB1	LFB	11/01/21 15:01	MS210927-3	.0499		.05065	mg/L	102	85	115			
WG530137PBW	PBW	11/01/21 15:03				U	mg/L		-0.0012	0.0012			
L69414-01AS	AS	11/01/21 15:08	MS210927-3	.0499	.0357	.09131	mg/L	111	70	130			
L69414-01ASD	ASD	11/01/21 15:10	MS210927-3	.0499	.0357	.08728	mg/L	103	70	130	5	20	
WG530322PBW	PBW	11/01/21 15:32				U	mg/L		-0.0012	0.0012			
WG530620PBW	PBW	11/01/21 15:36				U	mg/L		-0.0012	0.0012			
WG530739LFB2	LFB	11/01/21 16:29	MS210927-3	.0499		.05063	mg/L	101	85	115			

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530283													
WG530283ICV	ICV	10/27/21 9:47	HG211004-3	.00501		.00499	mg/L	100	95	105			
WG530283ICB	ICB	10/27/21 9:48				U	mg/L		-0.0002	0.0002			
WG530283LRB	LRB	10/27/21 9:50				U	mg/L		-0.00044	0.00044			
WG530283LFB	LFB	10/27/21 9:51	HG211015-3	.002002		.00189	mg/L	94	85	115			
L69455-01LFM	LFM	10/27/21 10:13	HG211015-3	.002002	U	.00191	mg/L	95	85	115			
L69455-01LFMD	LFMD	10/27/21 10:14	HG211015-3	.002002	U	.0019	mg/L	95	85	115	1	20	

OURAYSM

ACZ Project ID: **L69421**

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
WG530341													
WG530341LCSW1	LCSW	10/26/21 20:50	PCN62948	6		6.1	units	102	5.9	6.1			
WG530341LCSW4	LCSW	10/27/21 0:38	PCN62948	6		6.1	units	102	5.9	6.1			
WG530341LCSW7	LCSW	10/27/21 5:00	PCN62948	6		6.1	units	102	5.9	6.1			
L69436-03DUP	DUP	10/27/21 7:06			8.7	8.7	units				0	20	
WG530341LCSW10	LCSW	10/27/21 8:59	PCN62948	6		6.1	units	102	5.9	6.1			
WG530341LCSW13	LCSW	10/27/21 12:14	PCN62948	6		6.1	units	102	5.9	6.1			

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

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530225													
WG530225PBW	PBW	10/25/21 13:04				U	mg/L		-5	5			
WG530225LCSW	LCSW	10/25/21 13:06	PCN64127	100		95	mg/L	95	80	120			
L69430-01DUP	DUP	10/25/21 14:04			10	10	mg/L				0	10	RA

Silver, potentially dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530739													
WG530739ICV	ICV	11/01/21 14:56	MS211013-2	.02		.01867	mg/L	93	90	110			
WG530739ICB	ICB	11/01/21 14:59				U	mg/L		-0.00022	0.00022			
WG530739LFB1	LFB	11/01/21 15:01	MS210927-3	.01		.00928	mg/L	93	85	115			
WG530137PBW	PBW	11/01/21 15:03				U	mg/L		-0.0003	0.0003			
L69414-01AS	AS	11/01/21 15:08	MS210927-3	.01	U	.0082	mg/L	82	70	130			
L69414-01ASD	ASD	11/01/21 15:10	MS210927-3	.01	U	.00715	mg/L	72	70	130	14	20	
WG530322PBW	PBW	11/01/21 15:32				U	mg/L		-0.0003	0.0003			
WG530620PBW	PBW	11/01/21 15:36				U	mg/L		-0.0003	0.0003			
WG530739LFB2	LFB	11/01/21 16:29	MS210927-3	.01		.00932	mg/L	93	85	115			

Zinc, potentially dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530739													
WG530739ICV	ICV	11/01/21 14:56	MS211013-2	.05		.0476	mg/L	95	90	110			
WG530739ICB	ICB	11/01/21 14:59				U	mg/L		-0.0132	0.0132			
WG530739LFB1	LFB	11/01/21 15:01	MS210927-3	.050075		.0517	mg/L	103	85	115			
WG530137PBW	PBW	11/01/21 15:03				U	mg/L		-0.018	0.018			
L69414-01AS	AS	11/01/21 15:08	MS210927-3	.050075	.036	.0864	mg/L	101	70	130			
L69414-01ASD	ASD	11/01/21 15:10	MS210927-3	.050075	.036	.0823	mg/L	92	70	130	5	20	
WG530322PBW	PBW	11/01/21 15:32				U	mg/L		-0.018	0.018			
WG530620PBW	PBW	11/01/21 15:36				U	mg/L		-0.018	0.018			
WG530739LFB2	LFB	11/01/21 16:29	MS210927-3	.050075		.0525	mg/L	105	85	115			

Ouray Silver MinesACZ Project ID: **L69421**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L69421-01	WG530739	Copper, potentially dissolved	M200.8 ICP-MS	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG530956	Cyanide, WAD	SM4500-CN I,E-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).
	WG530225	Residue, Non-Filterable (TSS) @105C	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

Ouray Silver Mines

ACZ Project ID: **L69421**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L69421

Date Received: 10/21/2021 09:32

Received By:

Date Printed: 10/22/2021

Receipt Verification

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

Samples/Containers

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

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?
-----	-----	-----	-----	-----
3402	4.6	<=6.0	15	Yes

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.

Ouray Silver Mines

ACZ Project ID: L69421

Date Received: 10/21/2021 09:32

Received By:

Date Printed: 10/22/2021

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).

CHAIN of CUSTODY

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

Report to:

Name: Briana Greer		Address: 112 Village Square W Suite 205.
Company: Solid Solution Geosciences LLC		Ridgway CO, 81432
E-mail: briana@solidsolutiongeosciences.com.com		Telephone: 307-760-8838

Copy of Report to:

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

Invoice to:

Name: Ashlee Briggs		Address: PO BOX 564
Company: Ouray Silver Mines Inc.		Ouray, CO 81427
E-mail: abriggs@ouraysilvermines.com		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	☒
NO	☐

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 ☒

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

Sampler's Name: Joshua A. Moore Sampler's Site Information State CO Zip code 81427 Time Zone Mtn

*Sampler's Signature: Johna Moore

* 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

ANALYSES REQUESTED (attach list or use quote number)

[illegible]

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

James Moore

14:16 10/20/2

Dec 10/21/21

9327

November 16, 2021

Report to:
Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Environmental, Accounts Payable

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

Project ID:
ACZ Project ID: L69598

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 29, 2021. This project has been assigned to ACZ's project number, L69598. 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 L69598. 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 December 16, 2021. 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.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: GW-2A

ACZ Sample ID: **L69598-01**

Date Sampled: 10/28/21 13:15

Date Received: 10/29/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								11/05/21 11:58	mjj1
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								11/04/21 14:16	bls

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	11/09/21 18:26	kja
Antimony, dissolved	M200.8 ICP-MS	1	0.00093	B		mg/L	0.0004	0.002	11/10/21 17:42	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00033	B		mg/L	0.0002	0.001	11/10/21 17:42	mfm
Barium, dissolved	M200.7 ICP	1	0.0511			mg/L	0.007	0.035	11/09/21 18:26	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	11/10/21 17:42	mfm
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	11/09/21 18:26	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000637			mg/L	0.00005	0.00025	11/10/21 17:42	mfm
Calcium, dissolved	M200.7 ICP	1	29.8			mg/L	0.1	0.5	11/09/21 18:26	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	11/10/21 17:42	mfm
Copper, dissolved	M200.8 ICP-MS	1	0.00083	B		mg/L	0.0008	0.002	11/10/21 17:42	mfm
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	11/09/21 18:26	kja
Lead, dissolved	M200.8 ICP-MS	1	0.00013	B		mg/L	0.0001	0.0005	11/10/21 17:42	mfm
Magnesium, dissolved	M200.7 ICP	1	2.28			mg/L	0.2	1	11/09/21 18:26	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	11/09/21 18:26	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	11/05/21 12:18	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00092			mg/L	0.0002	0.0005	11/10/21 17:42	mfm
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	11/09/21 18:26	kja
Potassium, dissolved	M200.7 ICP	1	0.50	B		mg/L	0.2	1	11/09/21 18:26	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00030			mg/L	0.0001	0.00025	11/10/21 17:42	mfm
Silica, dissolved	M200.7 ICP	1	5.4			mg/L	0.2	1	11/09/21 18:26	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/10/21 17:42	mfm
Sodium, dissolved	M200.7 ICP	1	2.15			mg/L	0.2	1	11/09/21 18:26	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/10/21 17:42	mfm
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/10/21 17:42	mfm
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	11/09/21 18:26	kja
Zinc, dissolved	M200.7 ICP	1	0.486			mg/L	0.02	0.05	11/09/21 18:26	kja

Ouray Silver Mines

Project ID:

Sample ID: GW-2A

ACZ Sample ID: **L69598-01**

Date Sampled: 10/28/21 13:15

Date Received: 10/29/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	28.3			mg/L	2	20	11/06/21 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	11/06/21 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	11/06/21 0:00	jck
Total Alkalinity		1	28.3			mg/L	2	20	11/06/21 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			2.9			%			11/16/21 0:00	calc
Sum of Anions			1.7			meq/L			11/16/21 0:00	calc
Sum of Cations			1.8			meq/L			11/16/21 0:00	calc
Chloride	SM4500Cl-E	1	0.73	B		mg/L	0.5	2	11/12/21 15:34	md
Conductivity @25C	SM2510B	1	199			umhos/cm	1	10	11/06/21 1:03	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	11/06/21 10:58	wtc
Fluoride	SM4500F-C	1	0.28	B		mg/L	0.15	0.35	11/11/21 16:37	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		84			mg/L	0.2	5	11/16/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	1.03		*	mg/L	0.02	0.1	11/14/21 1:02	pjb
pH (lab)	SM4500H+ B									
pH		1	7.4	H		units	0.1	0.1	11/06/21 0:00	jck
pH measured at		1	21.9			C	0.1	0.1	11/06/21 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	11/07/21 17:57	syw
Residue, Filterable (TDS) @180C	SM2540C	1	126			mg/L	20	40	11/03/21 18:27	anc
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	11/02/21 17:33	scd
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	54.0		*	mg/L	5	25	11/15/21 12:10	mjj1
TDS (calculated)	Calculation		114			mg/L			11/16/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.11						11/16/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: GW-2B

ACZ Sample ID: **L69598-02**

Date Sampled: 10/28/21 12:45

Date Received: 10/29/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								11/05/21 12:07	mjj1
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								11/04/21 14:33	bls

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	11/09/21 18:36	kja
Antimony, dissolved	M200.8 ICP-MS	1	0.00077	B		mg/L	0.0004	0.002	11/10/21 17:44	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00030	B		mg/L	0.0002	0.001	11/10/21 17:44	mfm
Barium, dissolved	M200.7 ICP	1	0.0550			mg/L	0.007	0.035	11/09/21 18:36	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	11/10/21 17:44	mfm
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	11/09/21 18:36	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000217	B		mg/L	0.00005	0.00025	11/10/21 17:44	mfm
Calcium, dissolved	M200.7 ICP	1	27.9			mg/L	0.1	0.5	11/09/21 18:36	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	11/10/21 17:44	mfm
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	11/10/21 17:44	mfm
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	11/09/21 18:36	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/10/21 17:44	mfm
Magnesium, dissolved	M200.7 ICP	1	2.26			mg/L	0.2	1	11/09/21 18:36	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	11/09/21 18:36	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	11/05/21 12:19	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00079			mg/L	0.0002	0.0005	11/10/21 17:44	mfm
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	11/09/21 18:36	kja
Potassium, dissolved	M200.7 ICP	1	0.55	B		mg/L	0.2	1	11/09/21 18:36	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00030			mg/L	0.0001	0.00025	11/10/21 17:44	mfm
Silica, dissolved	M200.7 ICP	1	5.8			mg/L	0.2	1	11/09/21 18:36	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/10/21 17:44	mfm
Sodium, dissolved	M200.7 ICP	1	1.99			mg/L	0.2	1	11/09/21 18:36	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/10/21 17:44	mfm
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/10/21 17:44	mfm
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	11/09/21 18:36	kja
Zinc, dissolved	M200.7 ICP	1	0.275			mg/L	0.02	0.05	11/09/21 18:36	kja

Ouray Silver Mines

Project ID:

Sample ID: GW-2B

ACZ Sample ID: **L69598-02**

Date Sampled: 10/28/21 12:45

Date Received: 10/29/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	29.1			mg/L	2	20	11/06/21 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	11/06/21 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	11/06/21 0:00	jck
Total Alkalinity		1	29.1			mg/L	2	20	11/06/21 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			3.0			%			11/16/21 0:00	calc
Sum of Anions			1.6			meq/L			11/16/21 0:00	calc
Sum of Cations			1.7			meq/L			11/16/21 0:00	calc
Chloride	SM4500Cl-E	1	0.59	B		mg/L	0.5	2	11/12/21 15:34	md
Conductivity @25C	SM2510B	1	184			umhos/cm	1	10	11/06/21 1:12	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	11/06/21 10:59	wtc
Fluoride	SM4500F-C	1	0.23	B		mg/L	0.15	0.35	11/11/21 16:57	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		79.0			mg/L	0.2	5	11/16/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.388			mg/L	0.02	0.1	11/14/21 1:03	pjb
pH (lab)	SM4500H+ B									
pH		1	7.5	H		units	0.1	0.1	11/06/21 0:00	jck
pH measured at		1	21.7			C	0.1	0.1	11/06/21 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	11/07/21 17:59	syw
Residue, Filterable (TDS) @180C	SM2540C	1	112			mg/L	20	40	11/03/21 18:29	anc
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	11/02/21 17:35	scd
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	46.4		*	mg/L	5	25	11/15/21 12:06	mjj1
TDS (calculated)	Calculation		105			mg/L			11/16/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.07						11/16/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: GW-3R

ACZ Sample ID: **L69598-03**

Date Sampled: 10/28/21 14:50

Date Received: 10/29/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								11/05/21 12:16	mjj1
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								11/04/21 14:41	bls

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	11/09/21 18:39	kja
Antimony, dissolved	M200.8 ICP-MS	1	0.00103	B		mg/L	0.0004	0.002	11/10/21 17:46	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.00051	B		mg/L	0.0002	0.001	11/10/21 17:46	mfm
Barium, dissolved	M200.7 ICP	1	0.0368			mg/L	0.007	0.035	11/09/21 18:39	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	11/10/21 17:46	mfm
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	11/09/21 18:39	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.000309			mg/L	0.00005	0.00025	11/10/21 17:46	mfm
Calcium, dissolved	M200.7 ICP	1	35.1			mg/L	0.1	0.5	11/09/21 18:39	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	11/10/21 17:46	mfm
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	11/10/21 17:46	mfm
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	11/09/21 18:39	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/10/21 17:46	mfm
Magnesium, dissolved	M200.7 ICP	1	2.00			mg/L	0.2	1	11/09/21 18:39	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	11/09/21 18:39	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	11/05/21 12:20	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00071			mg/L	0.0002	0.0005	11/10/21 17:46	mfm
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	11/09/21 18:39	kja
Potassium, dissolved	M200.7 ICP	1	0.45	B		mg/L	0.2	1	11/09/21 18:39	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00019	B		mg/L	0.0001	0.00025	11/10/21 17:46	mfm
Silica, dissolved	M200.7 ICP	1	5.0			mg/L	0.2	1	11/09/21 18:39	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/10/21 17:46	mfm
Sodium, dissolved	M200.7 ICP	1	2.68			mg/L	0.2	1	11/09/21 18:39	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/10/21 17:46	mfm
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/10/21 17:46	mfm
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	11/09/21 18:39	kja
Zinc, dissolved	M200.7 ICP	1	0.168			mg/L	0.02	0.05	11/09/21 18:39	kja

Ouray Silver Mines

Project ID:

Sample ID: GW-3R

ACZ Sample ID: **L69598-03**

Date Sampled: 10/28/21 14:50

Date Received: 10/29/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	27.0			mg/L	2	20	11/06/21 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	11/06/21 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	11/06/21 0:00	jck
Total Alkalinity		1	27.0			mg/L	2	20	11/06/21 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			2.4			%			11/16/21 0:00	calc
Sum of Anions			2			meq/L			11/16/21 0:00	calc
Sum of Cations			2.1			meq/L			11/16/21 0:00	calc
Chloride	SM4500Cl-E	1	0.67	B		mg/L	0.5	2	11/12/21 15:35	md
Conductivity @25C	SM2510B	1	225			umhos/cm	1	10	11/06/21 1:29	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	11/06/21 11:00	wtc
Fluoride	SM4500F-C	1	<0.15	U		mg/L	0.15	0.35	11/11/21 17:05	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		96			mg/L	0.2	5	11/16/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.339			mg/L	0.02	0.1	11/14/21 1:06	pjb
pH (lab)	SM4500H+ B									
pH		1	7.5	H		units	0.1	0.1	11/06/21 0:00	jck
pH measured at		1	21.8			C	0.1	0.1	11/06/21 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	11/07/21 18:01	syw
Residue, Filterable (TDS) @180C	SM2540C	1	132			mg/L	20	40	11/03/21 18:32	anc
Residue, Non-Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	11/02/21 17:37	scd
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	68.2		*	mg/L	5	25	11/15/21 12:12	mjj1
TDS (calculated)	Calculation		132			mg/L			11/16/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.00						11/16/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: GW-3B

ACZ Sample ID: **L69598-04**

Date Sampled: 10/28/21 14:20

Date Received: 10/29/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								11/05/21 12:26	mjj1
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								11/04/21 14:50	bls

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	11/09/21 18:49	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	11/10/21 17:48	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	11/10/21 17:48	mfm
Barium, dissolved	M200.7 ICP	1	0.0500			mg/L	0.007	0.035	11/09/21 18:49	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	11/10/21 17:48	mfm
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	11/09/21 18:49	kja
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	11/10/21 17:48	mfm
Calcium, dissolved	M200.7 ICP	1	35.2			mg/L	0.1	0.5	11/09/21 18:49	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	11/10/21 17:48	mfm
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	11/10/21 17:48	mfm
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	11/09/21 18:49	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/10/21 17:48	mfm
Magnesium, dissolved	M200.7 ICP	1	2.65			mg/L	0.2	1	11/09/21 18:49	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	11/09/21 18:49	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	11/05/21 12:21	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00032	B		mg/L	0.0002	0.0005	11/10/21 17:48	mfm
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	11/09/21 18:49	kja
Potassium, dissolved	M200.7 ICP	1	0.59	B		mg/L	0.2	1	11/09/21 18:49	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00022	B		mg/L	0.0001	0.00025	11/10/21 17:48	mfm
Silica, dissolved	M200.7 ICP	1	7.0			mg/L	0.2	1	11/09/21 18:49	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/10/21 17:48	mfm
Sodium, dissolved	M200.7 ICP	1	2.24			mg/L	0.2	1	11/09/21 18:49	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/10/21 17:48	mfm
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/10/21 17:48	mfm
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	11/09/21 18:49	kja
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	11/09/21 18:49	kja

Ouray Silver Mines

Project ID:

Sample ID: GW-3B

ACZ Sample ID: **L69598-04**

Date Sampled: 10/28/21 14:20

Date Received: 10/29/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	31.5			mg/L	2	20	11/08/21 0:00	jck
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	11/08/21 0:00	jck
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	11/08/21 0:00	jck
Total Alkalinity		1	31.5			mg/L	2	20	11/08/21 0:00	jck
Cation-Anion Balance	Calculation									
Cation-Anion Balance			5.0			%			11/16/21 0:00	calc
Sum of Anions			1.9			meq/L			11/16/21 0:00	calc
Sum of Cations			2.1			meq/L			11/16/21 0:00	calc
Chloride	SM4500Cl-E	1	0.74	B	*	mg/L	0.5	2	11/12/21 15:36	md
Conductivity @25C	SM2510B	1	210			umhos/cm	1	10	11/08/21 22:39	jck
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	11/06/21 11:01	wtc
Fluoride	SM4500F-C	1	0.16	B		mg/L	0.15	0.35	11/11/21 17:13	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		99			mg/L	0.2	5	11/16/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.141			mg/L	0.02	0.1	11/14/21 1:08	pjb
pH (lab)	SM4500H+ B									
pH		1	7.6	H		units	0.1	0.1	11/08/21 0:00	jck
pH measured at		1	21.6			C	0.1	0.1	11/08/21 0:00	jck
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	11/07/21 18:04	syw
Residue, Filterable (TDS) @180C	SM2540C	1	142			mg/L	20	40	11/04/21 6:48	mlh
Residue, Non-Filterable (TSS) @105C	SM2540D	1	5.0	B	*	mg/L	5	20	11/02/21 17:39	scd
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	58.4			mg/L	5	25	11/15/21 12:12	mjj1
TDS (calculated)	Calculation		128			mg/L			11/16/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.11						11/16/21 0:00	calc

Report Header Explanations

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

QC Sample Types

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

OURAYSM

ACZ Project ID: **L69598**

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
WG531145													
WG531145PBW1	PBW	11/05/21 20:14				U	mg/L		-20	20			
WG531145LCSW3	LCSW	11/05/21 20:34	WC211105-1	820.0001		785.2	mg/L	96	90	110			
WG531145LCSW6	LCSW	11/05/21 23:31	WC211105-1	820.0001		788	mg/L	96	90	110			
WG531145PBW2	PBW	11/05/21 23:39				U	mg/L		-20	20			
L69598-02DUP	DUP	11/06/21 1:21			29.1	28.6	mg/L				2	20	
L69604-01DUP	DUP	11/06/21 2:03			470	492.7	mg/L				5	20	
WG531145LCSW9	LCSW	11/06/21 3:35	WC211105-1	820.0001		803.8	mg/L	98	90	110			
WG531264													
WG531264PBW1	PBW	11/08/21 20:12				U	mg/L		-20	20			
WG531264LCSW3	LCSW	11/08/21 20:31	WC211105-1	820.0001		792.9	mg/L	97	90	110			
L69623-01DUP	DUP	11/08/21 23:49			104	102.6	mg/L				1	20	
WG531264LCSW6	LCSW	11/09/21 0:09	WC211105-1	820.0001		804.8	mg/L	98	90	110			
WG531264PBW2	PBW	11/09/21 0:17				U	mg/L		-20	20			
WG531264LCSW9	LCSW	11/09/21 3:36	WC211105-1	820.0001		790.4	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
WG531322													
WG531322ICV	ICV	11/09/21 17:50	II211104-7	2		1.976	mg/L	99	95	105			
WG531322ICB	ICB	11/09/21 17:57				U	mg/L		-0.15	0.15			
WG531322LFB	LFB	11/09/21 18:10	II211104-5	1.0008		1.012	mg/L	101	85	115			
L69598-01AS	AS	11/09/21 18:29	II211104-5	1.0008	U	.996	mg/L	100	85	115			
L69598-01ASD	ASD	11/09/21 18:32	II211104-5	1.0008	U	1.013	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
WG531449													
WG531449ICV	ICV	11/10/21 17:08	MS211013-2	.0201		.01963	mg/L	98	90	110			
WG531449ICB	ICB	11/10/21 17:10				.00058	mg/L		-0.00088	0.00088			
WG531449LFB	LFB	11/10/21 17:12	MS210927-3	.01		.00955	mg/L	96	85	115			
L69598-04AS	AS	11/10/21 17:50	MS210927-3	.01	U	.00834	mg/L	83	70	130			
L69598-04ASD	ASD	11/10/21 17:55	MS210927-3	.01	U	.00842	mg/L	84	70	130	1	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531449													
WG531449ICV	ICV	11/10/21 17:08	MS211013-2	.05		.04968	mg/L	99	90	110			
WG531449ICB	ICB	11/10/21 17:10				U	mg/L		-0.00044	0.00044			
WG531449LFB	LFB	11/10/21 17:12	MS210927-3	.05005		.04857	mg/L	97	85	115			
L69598-04AS	AS	11/10/21 17:50	MS210927-3	.05005	U	.05217	mg/L	104	70	130			
L69598-04ASD	ASD	11/10/21 17:55	MS210927-3	.05005	U	.05294	mg/L	106	70	130	1	20	

OURAYSM

ACZ Project ID: **L69598**

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.

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531322													
WG531322ICV	ICV	11/09/21 17:50	II211104-7	2		1.9702	mg/L	99	95	105			
WG531322ICB	ICB	11/09/21 17:57				U	mg/L		-0.021	0.021			
WG531322LFB	LFB	11/09/21 18:10	II211104-5	.5		.4847	mg/L	97	85	115			
L69598-01AS	AS	11/09/21 18:29	II211104-5	.5	.0511	.5032	mg/L	90	85	115			
L69598-01ASD	ASD	11/09/21 18:32	II211104-5	.5	.0511	.5291	mg/L	96	85	115	5	20	

Beryllium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531449													
WG531449ICV	ICV	11/10/21 17:08	MS211013-2	.05		.051815	mg/L	104	90	110			
WG531449ICB	ICB	11/10/21 17:10				U	mg/L		-0.000176	0.000176			
WG531449LFB	LFB	11/10/21 17:12	MS210927-3	.05005		.049537	mg/L	99	85	115			
L69598-04AS	AS	11/10/21 17:50	MS210927-3	.05005	U	.052963	mg/L	106	70	130			
L69598-04ASD	ASD	11/10/21 17:55	MS210927-3	.05005	U	.053877	mg/L	108	70	130	2	20	

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531322													
WG531322ICV	ICV	11/09/21 17:50	II211104-7	2		2.032	mg/L	102	95	105			
WG531322ICB	ICB	11/09/21 17:57				U	mg/L		-0.09	0.09			
WG531322LFB	LFB	11/09/21 18:10	II211104-5	.5005		.519	mg/L	104	85	115			
L69598-01AS	AS	11/09/21 18:29	II211104-5	.5005	U	.503	mg/L	100	85	115			
L69598-01ASD	ASD	11/09/21 18:32	II211104-5	.5005	U	.53	mg/L	106	85	115	5	20	

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531449													
WG531449ICV	ICV	11/10/21 17:08	MS211013-2	.05		.051692	mg/L	103	90	110			
WG531449ICB	ICB	11/10/21 17:10				U	mg/L		-0.00011	0.00011			
WG531449LFB	LFB	11/10/21 17:12	MS210927-3	.05005		.049963	mg/L	100	85	115			
L69598-04AS	AS	11/10/21 17:50	MS210927-3	.05005	U	.051558	mg/L	103	70	130			
L69598-04ASD	ASD	11/10/21 17:55	MS210927-3	.05005	U	.051344	mg/L	103	70	130	0	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531322													
WG531322ICV	ICV	11/09/21 17:50	II211104-7	100		97.55	mg/L	98	95	105			
WG531322ICB	ICB	11/09/21 17:57				U	mg/L		-0.3	0.3			
WG531322LFB	LFB	11/09/21 18:10	II211104-5	67.98808		67.57	mg/L	99	85	115			
L69598-01AS	AS	11/09/21 18:29	II211104-5	67.98808	29.8	95.87	mg/L	97	85	115			
L69598-01ASD	ASD	11/09/21 18:32	II211104-5	67.98808	29.8	96.79	mg/L	99	85	115	1	20	

OURAYSM

ACZ Project ID: **L69598**

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.

Chloride

SM4500Cl-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531622													
WG531622ICV	ICV	11/12/21 15:19	WI210503-1	54.89		55.26	mg/L	101	90	110			
WG531622ICB	ICB	11/12/21 15:20				1.19	mg/L		-1.5	1.5			
WG531622LFB1	LFB	11/12/21 15:20	WI210908-11	29.97		31.37	mg/L	105	90	110			
L69591-03AS	AS	11/12/21 15:29	WI210908-11	29.97	14.3	42.66	mg/L	95	90	110			
L69591-04DUP	DUP	11/12/21 15:30			27.5	27.21	mg/L				1	20	
WG531622LFB2	LFB	11/12/21 15:35	WI210908-11	29.97		27.2	mg/L	91	90	110			
L69598-04AS	AS	11/12/21 15:36	WI210908-11	29.97	.74	28.33	mg/L	92	90	110			
L69602-01DUP	DUP	11/12/21 15:37			.67	U	mg/L				200	20	RA

Chromium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531449													
WG531449ICV	ICV	11/10/21 17:08	MS211013-2	.05		.04977	mg/L	100	90	110			
WG531449ICB	ICB	11/10/21 17:10				U	mg/L		-0.0011	0.0011			
WG531449LFB	LFB	11/10/21 17:12	MS210927-3	.05		.04883	mg/L	98	85	115			
L69598-04AS	AS	11/10/21 17:50	MS210927-3	.05	U	.04811	mg/L	96	70	130			
L69598-04ASD	ASD	11/10/21 17:55	MS210927-3	.05	U	.04815	mg/L	96	70	130	0	20	

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531145													
WG531145LCSW2	LCSW	11/05/21 20:22	PCN64228	1409		1422	umhos/cm	101	90	110			
WG531145LCSW5	LCSW	11/05/21 23:19	PCN64228	1409		1417	umhos/cm	101	90	110			
L69598-02DUP	DUP	11/06/21 1:21			184	184	umhos/cm				0	20	
L69604-01DUP	DUP	11/06/21 2:03			3130	3130	umhos/cm				0	20	
WG531145LCSW8	LCSW	11/06/21 3:21	PCN64228	1409		1405	umhos/cm	100	90	110			
WG531264													
WG531264LCSW2	LCSW	11/08/21 20:20	PCN64228	1409		1439	umhos/cm	102	90	110			
L69623-01DUP	DUP	11/08/21 23:49			527	523	umhos/cm				1	20	
WG531264LCSW5	LCSW	11/08/21 23:56	PCN64228	1409		1436	umhos/cm	102	90	110			
WG531264LCSW8	LCSW	11/09/21 3:24	PCN64228	1409		1428	umhos/cm	101	90	110			

Copper, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531449													
WG531449ICV	ICV	11/10/21 17:08	MS211013-2	.05		.04931	mg/L	99	90	110			
WG531449ICB	ICB	11/10/21 17:10				U	mg/L		-0.00176	0.00176			
WG531449LFB	LFB	11/10/21 17:12	MS210927-3	.05		.04769	mg/L	95	85	115			
L69598-04AS	AS	11/10/21 17:50	MS210927-3	.05	U	.046	mg/L	92	70	130			
L69598-04ASD	ASD	11/10/21 17:55	MS210927-3	.05	U	.04664	mg/L	93	70	130	1	20	

OURAYSM

ACZ Project ID: **L69598**

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.

Cyanide, total

M335.4 - Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531156													
WG531156ICV	ICV	11/06/21 10:36	WI211027-5	.3		.3014	mg/L	100	90	110			
WG531156ICB	ICB	11/06/21 10:37				U	mg/L		-0.003	0.003			
WG531088LRB	LRB	11/06/21 10:38				U	mg/L		-0.003	0.003			
WG531088LFB	LFB	11/06/21 10:38	WI211026-2	.2		.1872	mg/L	94	90	110			
L69575-04DUP	DUP	11/06/21 10:52			U	U	mg/L				0	20	RA
L69575-05LFM	LFM	11/06/21 10:54	WI211026-2	.2	U	.2131	mg/L	107	90	110			

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531512													
WG531512ICV	ICV	11/11/21 12:54	WC211030-1	2.002		2.14	mg/L	107	90	110			
WG531512ICB	ICB	11/11/21 12:58				U	mg/L		-0.3	0.3			
WG531512LFB1	LFB	11/11/21 13:07	WC210803-9	5.02		5.23	mg/L	104	90	110			
L69598-04AS	AS	11/11/21 17:21	WC210803-9	5.02	.16	5.41	mg/L	105	90	110			
L69598-04ASD	ASD	11/11/21 17:29	WC210803-9	5.02	.16	5.38	mg/L	104	90	110	1	20	
WG531512LFB2	LFB	11/11/21 17:33	WC210803-9	5.02		5.38	mg/L	107	90	110			

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531322													
WG531322ICV	ICV	11/09/21 17:50	II211104-7	2		1.954	mg/L	98	95	105			
WG531322ICB	ICB	11/09/21 17:57				U	mg/L		-0.18	0.18			
WG531322LFB	LFB	11/09/21 18:10	II211104-5	1.0001		.987	mg/L	99	85	115			
L69598-01AS	AS	11/09/21 18:29	II211104-5	1.0001	U	.929	mg/L	93	85	115			
L69598-01ASD	ASD	11/09/21 18:32	II211104-5	1.0001	U	.989	mg/L	99	85	115	6	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531449													
WG531449ICV	ICV	11/10/21 17:08	MS211013-2	.05		.05138	mg/L	103	90	110			
WG531449ICB	ICB	11/10/21 17:10				.0001	mg/L		-0.00022	0.00022			
WG531449LFB	LFB	11/10/21 17:12	MS210927-3	.05005		.05022	mg/L	100	85	115			
L69598-04AS	AS	11/10/21 17:50	MS210927-3	.05005	U	.04984	mg/L	100	70	130			
L69598-04ASD	ASD	11/10/21 17:55	MS210927-3	.05005	U	.05017	mg/L	100	70	130	1	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531322													
WG531322ICV	ICV	11/09/21 17:50	II211104-7	100		95.09	mg/L	95	95	105			
WG531322ICB	ICB	11/09/21 17:57				U	mg/L		-0.6	0.6			
WG531322LFB	LFB	11/09/21 18:10	II211104-5	49.99847		47.59	mg/L	95	85	115			
L69598-01AS	AS	11/09/21 18:29	II211104-5	49.99847	2.28	50.2	mg/L	96	85	115			
L69598-01ASD	ASD	11/09/21 18:32	II211104-5	49.99847	2.28	50.44	mg/L	96	85	115	0	20	

OURAYSM

ACZ Project ID: **L69598**

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.

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531322													
WG531322ICV	ICV	11/09/21 17:50	II211104-7	2		1.929	mg/L	96	95	105			
WG531322ICB	ICB	11/09/21 17:57				U	mg/L		-0.03	0.03			
WG531322LFB	LFB	11/09/21 18:10	II211104-5	.499		.487	mg/L	98	85	115			
L69598-01AS	AS	11/09/21 18:29	II211104-5	.499	U	.461	mg/L	92	85	115			
L69598-01ASD	ASD	11/09/21 18:32	II211104-5	.499	U	.491	mg/L	98	85	115	6	20	

Mercury, dissolved

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531081													
WG531081ICV	ICV	11/05/21 9:10	HG211004-3	.00501		.00508	mg/L	101	90	110			
WG531081ICB	ICB	11/05/21 9:11				U	mg/L		-0.0006	0.0006			
WG531050													
WG531050LRB	LRB	11/05/21 12:04				U	mg/L		-0.00044	0.00044			
WG531050LFB	LFB	11/05/21 12:05	HG211101-4	.002002		.00188	mg/L	94	85	115			
L69573-01LFM	LFM	11/05/21 12:09	HG211101-4	.002002	U	.00186	mg/L	93	85	115			
L69573-01LFMD	LFMD	11/05/21 12:10	HG211101-4	.002002	U	.00188	mg/L	94	85	115	1	20	
L69602-01LFM	LFM	11/05/21 12:25	HG211101-4	.002002	U	.00194	mg/L	97	85	115			
L69602-01LFMD	LFMD	11/05/21 12:26	HG211101-4	.002002	U	.00193	mg/L	96	85	115	1	20	

Molybdenum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531449													
WG531449ICV	ICV	11/10/21 17:08	MS211013-2	.01992		.01922	mg/L	96	90	110			
WG531449ICB	ICB	11/10/21 17:10				U	mg/L		-0.00044	0.00044			
WG531449LFB	LFB	11/10/21 17:12	MS210927-3	.05005		.04639	mg/L	93	85	115			
L69598-04AS	AS	11/10/21 17:50	MS210927-3	.05005	.00032	.04597	mg/L	91	70	130			
L69598-04ASD	ASD	11/10/21 17:55	MS210927-3	.05005	.00032	.04653	mg/L	92	70	130	1	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531322													
WG531322ICV	ICV	11/09/21 17:50	II211104-7	2		1.9738	mg/L	99	95	105			
WG531322ICB	ICB	11/09/21 17:57				U	mg/L		-0.024	0.024			
WG531322LFB	LFB	11/09/21 18:10	II211104-5	.5		.4857	mg/L	97	85	115			
L69598-01AS	AS	11/09/21 18:29	II211104-5	.5	U	.4612	mg/L	92	85	115			
L69598-01ASD	ASD	11/09/21 18:32	II211104-5	.5	U	.4851	mg/L	97	85	115	5	20	

OURAYSM

ACZ Project ID: **L69598**

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.

Nitrate/Nitrite as N

M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531664													
WG531664ICV	ICV	11/13/21 23:03	WI210904-1	2.4161		2.349	mg/L	97	90	110			
WG531664ICB	ICB	11/13/21 23:04				U	mg/L		-0.02	0.02			
WG531665													
WG531665LFB	LFB	11/14/21 0:42	WI211001-5	2		1.849	mg/L	92	90	110			
L69303-02AS	AS	11/14/21 0:45	WI211001-5	2	.323	2.368	mg/L	102	90	110			
L69303-03DUP	DUP	11/14/21 0:47			.188	.188	mg/L				0	20	RA
L69598-02AS	AS	11/14/21 1:04	WI211001-5	2	.388	2.433	mg/L	102	90	110			
L69598-03DUP	DUP	11/14/21 1:07			.339	.338	mg/L				0	20	

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531145													
WG531145LCSW1	LCSW	11/05/21 20:20	PCN62948	6		6.1	units	102	5.9	6.1			
WG531145LCSW4	LCSW	11/05/21 23:17	PCN62948	6		6.1	units	102	5.9	6.1			
L69598-02DUP	DUP	11/06/21 1:21			7.5	7.5	units				0	20	
L69604-01DUP	DUP	11/06/21 2:03			11.6	11.7	units				1	20	
WG531145LCSW7	LCSW	11/06/21 3:20	PCN62948	6		6.1	units	102	5.9	6.1			
WG531264													
WG531264LCSW1	LCSW	11/08/21 20:18	PCN62948	6		6.1	units	102	5.9	6.1			
L69623-01DUP	DUP	11/08/21 23:49			8.1	8.1	units				0	20	
WG531264LCSW4	LCSW	11/08/21 23:54	PCN62948	6		6.1	units	102	5.9	6.1			
WG531264LCSW7	LCSW	11/09/21 3:22	PCN62948	6		6.1	units	102	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
WG531168													
WG531168ICV	ICV	11/07/21 17:34	WI211018-4	.65228		.688	mg/L	105	90	110			
WG531168ICB	ICB	11/07/21 17:37				U	mg/L		-0.01	0.01			
WG531035LRB	LRB	11/07/21 17:38				U	mg/L		-0.01	0.01			
WG531035LFB	LFB	11/07/21 17:39	WI211030-2	.5		.511	mg/L	102	90	110			
L69597-05LFM	LFM	11/07/21 17:56	WI211030-2	.5	.017	.532	mg/L	103	90	110			
L69598-01DUP	DUP	11/07/21 17:58			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
WG531322													
WG531322ICV	ICV	11/09/21 17:50	II211104-7	20		19.64	mg/L	98	95	105			
WG531322ICB	ICB	11/09/21 17:57				U	mg/L		-0.6	0.6			
WG531322LFB	LFB	11/09/21 18:10	II211104-5	99.96008		97.84	mg/L	98	85	115			
L69598-01AS	AS	11/09/21 18:29	II211104-5	99.96008	.5	97.84	mg/L	97	85	115			
L69598-01ASD	ASD	11/09/21 18:32	II211104-5	99.96008	.5	98.63	mg/L	98	85	115	1	20	

OURAYSM

ACZ Project ID: **L69598**

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.

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530974													
WG530974PBW	PBW	11/03/21 17:40				U	mg/L		-20	20			
WG530974LCSW	LCSW	11/03/21 17:42	PCN64716	1000		986	mg/L	99	80	120			
L69641-04DUP	DUP	11/03/21 18:40			288	290	mg/L				1	10	
WG530984													
WG530984PBW	PBW	11/04/21 6:43				U	mg/L		-20	20			
WG530984LCSW	LCSW	11/04/21 6:45	PCN64716	1000		998	mg/L	100	80	120			
L69614-02DUP	DUP	11/04/21 7:14			1160	1166	mg/L				1	10	

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

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG530859													
WG530859PBW	PBW	11/02/21 17:20				U	mg/L		-2	2			
WG530859LCSW	LCSW	11/02/21 17:21	PCN64716	100		90	mg/L	90	80	120			
L69598-04DUP	DUP	11/02/21 17:40			5	U	mg/L				200	10	RA

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531449													
WG531449ICV	ICV	11/10/21 17:08	MS211013-2	.05		.05118	mg/L	102	90	110			
WG531449ICB	ICB	11/10/21 17:10				.00018	mg/L		-0.00022	0.00022			
WG531449LFB	LFB	11/10/21 17:12	MS210927-3	.05		.04941	mg/L	99	85	115			
L69598-04AS	AS	11/10/21 17:50	MS210927-3	.05	.00022	.05374	mg/L	107	70	130			
L69598-04ASD	ASD	11/10/21 17:55	MS210927-3	.05	.00022	.05413	mg/L	108	70	130	1	20	

Silica, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531322													
WG531322ICV	ICV	11/09/21 17:50	II211104-7	42.8		42.86	mg/L	100	95	105			
WG531322ICB	ICB	11/09/21 17:57				U	mg/L		-0.6	0.6			
WG531322LFB	LFB	11/09/21 18:10	II211104-5	21.404		21.73	mg/L	102	85	115			
L69598-01AS	AS	11/09/21 18:29	II211104-5	21.404	5.4	26.38	mg/L	98	85	115			
L69598-01ASD	ASD	11/09/21 18:32	II211104-5	21.404	5.4	27.69	mg/L	104	85	115	5	20	

Silver, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531449													
WG531449ICV	ICV	11/10/21 17:08	MS211013-2	.02		.02031	mg/L	102	90	110			
WG531449ICB	ICB	11/10/21 17:10				U	mg/L		-0.00022	0.00022			
WG531449LFB	LFB	11/10/21 17:12	MS210927-3	.01		.0097	mg/L	97	85	115			
L69598-04AS	AS	11/10/21 17:50	MS210927-3	.01	U	.00933	mg/L	93	70	130			
L69598-04ASD	ASD	11/10/21 17:55	MS210927-3	.01	U	.00934	mg/L	93	70	130	0	20	

OURAYSM

ACZ Project ID: **L69598**

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.

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531322													
WG531322ICV	ICV	11/09/21 17:50	II211104-7	100		98.53	mg/L	99	95	105			
WG531322ICB	ICB	11/09/21 17:57				U	mg/L		-0.6	0.6			
WG531322LFB	LFB	11/09/21 18:10	II211104-5	100.0086		98.6	mg/L	99	85	115			
L69598-01AS	AS	11/09/21 18:29	II211104-5	100.0086	2.15	99.93	mg/L	98	85	115			
L69598-01ASD	ASD	11/09/21 18:32	II211104-5	100.0086	2.15	100.6	mg/L	98	85	115	1	20	

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531708													
WG531708ICV	ICV	11/15/21 9:55	WI211111-2	20		20.3	mg/L	102	90	110			
WG531708ICB	ICB	11/15/21 9:55				U	mg/L		-3	3			
WG531708LFB	LFB	11/15/21 11:46	WI210105-3	10		9.6	mg/L	96	90	110			
L69602-01AS	AS	11/15/21 11:49	WI210105-3	10	U	9.8	mg/L	98	90	110			
L69523-01DUP	DUP	11/15/21 11:53			53.8	54.8	mg/L				2	20	M3
L69598-04DUP	DUP	11/15/21 12:12			58.4	58.7	mg/L				1	20	
L69596-01AS	AS	11/15/21 12:46	WI210105-3	1200	1680	1677.4	mg/L	0	90	110			M3

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531449													
WG531449ICV	ICV	11/10/21 17:08	MS211013-2	.05		.05337	mg/L	107	90	110			
WG531449ICB	ICB	11/10/21 17:10				U	mg/L		-0.00022	0.00022			
WG531449LFB	LFB	11/10/21 17:12	MS210927-3	.05		.05077	mg/L	102	85	115			
L69598-04AS	AS	11/10/21 17:50	MS210927-3	.05	U	.05079	mg/L	102	70	130			
L69598-04ASD	ASD	11/10/21 17:55	MS210927-3	.05	U	.05106	mg/L	102	70	130	1	20	

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531449													
WG531449ICV	ICV	11/10/21 17:08	MS211013-2	.05		.05175	mg/L	104	90	110			
WG531449ICB	ICB	11/10/21 17:10				U	mg/L		-0.00022	0.00022			
WG531449LFB	LFB	11/10/21 17:12	MS210927-3	.05		.05041	mg/L	101	85	115			
L69598-04AS	AS	11/10/21 17:50	MS210927-3	.05	U	.05092	mg/L	102	70	130			
L69598-04ASD	ASD	11/10/21 17:55	MS210927-3	.05	U	.05112	mg/L	102	70	130	0	20	

Vanadium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531322													
WG531322ICV	ICV	11/09/21 17:50	II211104-7	2		1.939	mg/L	97	95	105			
WG531322ICB	ICB	11/09/21 17:57				U	mg/L		-0.015	0.015			
WG531322LFB	LFB	11/09/21 18:10	II211104-5	.5005		.4885	mg/L	98	85	115			
L69598-01AS	AS	11/09/21 18:29	II211104-5	.5005	U	.4856	mg/L	97	85	115			
L69598-01ASD	ASD	11/09/21 18:32	II211104-5	.5005	U	.489	mg/L	98	85	115	1	20	

OURAYSM

ACZ Project ID: **L69598**

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.

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531322													
WG531322ICV	ICV	11/09/21 17:50	II211104-7	2		1.948	mg/L	97	95	105			
WG531322ICB	ICB	11/09/21 17:57				U	mg/L		-0.06	0.06			
WG531322LFB	LFB	11/09/21 18:10	II211104-5	.50045		.512	mg/L	102	85	115			
L69598-01AS	AS	11/09/21 18:29	II211104-5	.50045	.486	.959	mg/L	95	85	115			
L69598-01ASD	ASD	11/09/21 18:32	II211104-5	.50045	.486	.969	mg/L	97	85	115	1	20	

Ouray Silver Mines

ACZ Project ID: **L69598**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L69598-01	WG531156	Cyanide, total	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).
	WG531665	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	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).
	WG531168	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).
	WG530859	Residue, Non-Filterable (TSS) @105C	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).
	WG531708	Sulfate	SM2540D D516-02/-07/-11 - TURBIDIMETRIC	Z3 M3	Sample volume yielded a residue less than 2.5 mg 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.
L69598-02	WG531156	Cyanide, total	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).
	WG531168	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).
	WG530859	Residue, Non-Filterable (TSS) @105C	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).
	WG531708	Sulfate	SM2540D D516-02/-07/-11 - TURBIDIMETRIC	Z3 M3	Sample volume yielded a residue less than 2.5 mg 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.
	WG531156	Cyanide, total	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).
L69598-03	WG531168	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).
	WG530859	Residue, Non-Filterable (TSS) @105C	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).
	WG531708	Sulfate	SM2540D D516-02/-07/-11 - TURBIDIMETRIC	Z3 M3	Sample volume yielded a residue less than 2.5 mg 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.
	WG531622	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).
	WG531156	Cyanide, total	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).
L69598-04	WG531168	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).
	WG530859	Residue, Non-Filterable (TSS) @105C	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).
	WG531708	Sulfate	SM2540D D516-02/-07/-11 - TURBIDIMETRIC	Z3 M3	Sample volume yielded a residue less than 2.5 mg 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.
	WG531622	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).
	WG531156	Cyanide, total	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).

Ouray Silver Mines

ACZ Project ID: **L69598**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L69598

Date Received: 10/29/2021 09:17

Received By:

Date Printed: 11/1/2021

Receipt Verification

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

Samples/Containers

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

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?
-----	-----	-----	-----	-----
4390	4.6	<=6.0	15	Yes

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.

Ouray Silver Mines

ACZ Project ID: L69598

Date Received: 10/29/2021 09:17

Received By:

Date Printed: 11/1/2021

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).

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

Report to:

Name: Briana Greer
 Company: Solid Solution Geosciences LLC
 E-mail: briana@solidsolutiongeosciences.com.com

Address: 112 Village Square W Suite 205.
 Ridgway CO, 81432
 Telephone: 307-760-8838

Copy of Report to:

Name: Environmental
 Company: Ouray Silver Mines Inc.

E-mail: environmental@ouraysilvermines.com
 Telephone: 970-325-9830

Invoice to:

Name: Ashlee Briggs
 Company: Ouray Silver Mines Inc.
 E-mail: abriggs@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 ☒
 NO ☐

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 ☒

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

Sampler's Name: Joshua A. Moore Sampler's Site Information State CO Zip code 81427 Time Zone Mtn

*Sampler's Signature: *Joshua A. Moore*

*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

ANALYSES REQUESTED (attach list or use quote number)

Quote #: GW

PO#:

Reporting state for compliance testing: CO

Check box if samples include NRC licensed material? ☐

SAMPLE IDENTIFICATION DATE: TIME Matrix

SAMPLE IDENTIFICATION	DATE: TIME	Matrix	# of Containers	GW																
GW-2A	10/28/21 13:15	GW	5	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
GW-2B	10/28/21 12:45	GW	5	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
GW-3R	10/28/21 14:50	GW	5	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
GW-3B	10/28/21 14:20	GW	5	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

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

Joshua A. Moore 10/28/21 15:40

[Signature] 10/28/21 9:07

L69598 Chain of Custody

November 18, 2021

Report to:
Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Environmental, Accounts Payable

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

Project ID:
ACZ Project ID: L69644

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on November 02, 2021. This project has been assigned to ACZ's project number, L69644. 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 L69644. 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 December 18, 2021. 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.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: OF002A

ACZ Sample ID: **L69644-01**

Date Sampled: 11/01/21 11:50

Date Received: 11/02/21

Sample Matrix: Waste Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002- 31.5.31 (2009)								11/05/21 7:30	scp
Cyanide, WAD	SM4500-CN I- distillation								11/09/21 13:19	mjj1
Total Hot Plate Digestion	M200.2 ICP-MS								11/09/21 1:21	bsu
Total Recoverable Digestion	M200.2 ICP								11/08/21 20:28	aeh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, potentially dissolved	M200.8 ICP-MS	1	0.000208	B		mg/L	0.00005	0.00025	11/10/21 11:28	mfm
Copper, potentially dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	11/10/21 11:28	mfm
Iron, total recoverable	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	11/10/21 21:10	kja
Lead, potentially dissolved	M200.8 ICP-MS	1	0.00182			mg/L	0.0001	0.0005	11/10/21 11:28	mfm
Lead, total	M200.8 ICP-MS	1	0.00173			mg/L	0.0001	0.0005	11/09/21 20:23	bsu
Manganese, potentially dissolved	M200.8 ICP-MS	1	0.283			mg/L	0.0004	0.002	11/10/21 11:28	mfm
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	11/05/21 11:46	mlh
Silver, potentially dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/10/21 11:28	mfm
Zinc, potentially dissolved	M200.8 ICP-MS	1	0.0918			mg/L	0.006	0.015	11/10/21 11:28	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	11/10/21 12:02	mjj1
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	11/12/21 0:00	jck
pH measured at		1	22.5			C	0.1	0.1	11/12/21 0:00	jck
Residue, Non- Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	11/04/21 9:59	anc



Report Header Explanations

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

QC Sample Types

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

OURAYSM

ACZ Project ID: **L69644**

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.

Cadmium, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531389													
WG531389ICV	ICV	11/10/21 11:01	MS211013-2	.05		.051943	mg/L	104	90	110			
WG531389ICB	ICB	11/10/21 11:03				U	mg/L		-0.00011	0.00011			
WG531389LFB	LFB	11/10/21 11:05	MS210927-3	.05005		.049703	mg/L	99	85	115			
WG530640PBW	PBW	11/10/21 11:07				U	mg/L		-0.00015	0.00015			
WG531053PBW	PBW	11/10/21 11:14				U	mg/L		-0.00015	0.00015			
L69638-01AS	AS	11/10/21 11:17	MS210927-3	.05005	.000745	.049873	mg/L	98	70	130			
L69638-01ASD	ASD	11/10/21 11:19	MS210927-3	.05005	.000745	.050356	mg/L	99	70	130	1	20	

Copper, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531389													
WG531389ICV	ICV	11/10/21 11:01	MS211013-2	.05		.05049	mg/L	101	90	110			
WG531389ICB	ICB	11/10/21 11:03				U	mg/L		-0.00176	0.00176			
WG531389LFB	LFB	11/10/21 11:05	MS210927-3	.05		.05098	mg/L	102	85	115			
WG530640PBW	PBW	11/10/21 11:07				U	mg/L		-0.0024	0.0024			
WG531053PBW	PBW	11/10/21 11:14				U	mg/L		-0.0024	0.0024			
L69638-01AS	AS	11/10/21 11:17	MS210927-3	.05	.00581	.05067	mg/L	90	70	130			
L69638-01ASD	ASD	11/10/21 11:19	MS210927-3	.05	.00581	.05164	mg/L	92	70	130	2	20	

Cyanide, WAD

SM4500-CN I,E-Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531408													
WG531408ICV	ICV	11/10/21 11:45	WI211109-7	.3		.2936	mg/L	98	90	110			
WG531408ICB	ICB	11/10/21 11:46				U	mg/L		-0.003	0.003			
WG531183LRB	LRB	11/10/21 11:47				U	mg/L		-0.003	0.003			
WG531183LFB	LFB	11/10/21 11:48	WI211026-4	.2		.1906	mg/L	95	90	110			
L69642-01DUP	DUP	11/10/21 12:01			U	U	mg/L				0	20	M2 RA
L69644-01LFM	LFM	11/10/21 12:03	WI211026-4	.2	U	.1693	mg/L	85	90	110			M2

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531424													
WG531424ICV	ICV	11/10/21 19:42	II211104-7	2		1.952	mg/L	98	95	105			
WG531424ICB	ICB	11/10/21 19:48				U	mg/L		-0.18	0.18			
WG531247LRB	LRB	11/10/21 20:01				U	mg/L		-0.132	0.132			
WG531247LFB	LFB	11/10/21 20:04	II211104-5	1.0001		.979	mg/L	98	85	115			
L69644-01LFM	LFM	11/10/21 21:20	II211104-5	1.0001	U	1.017	mg/L	102	70	130			
L69644-01LFMD	LFMD	11/10/21 21:23	II211104-5	1.0001	U	1.026	mg/L	103	70	130	1	20	

OURAYSM

ACZ Project ID: **L69644**

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.

Lead, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531389													
WG531389ICV	ICV	11/10/21 11:01	MS211013-2	.05		.05222	mg/L	104	90	110			
WG531389ICB	ICB	11/10/21 11:03				U	mg/L		-0.00022	0.00022			
WG531389LFB	LFB	11/10/21 11:05	MS210927-3	.05005		.05058	mg/L	101	85	115			
WG530640PBW	PBW	11/10/21 11:07				U	mg/L		-0.0003	0.0003			
WG531053PBW	PBW	11/10/21 11:14				U	mg/L		-0.0003	0.0003			
L69638-01AS	AS	11/10/21 11:17	MS210927-3	.05005	.0169	.06535	mg/L	97	70	130			
L69638-01ASD	ASD	11/10/21 11:19	MS210927-3	.05005	.0169	.06694	mg/L	100	70	130	2	20	

Lead, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531350													
WG531350ICV	ICV	11/09/21 19:38	MS211013-2	.05		.05288	mg/L	106	90	110			
WG531350ICB	ICB	11/09/21 19:39				U	mg/L		-0.0003	0.0003			
WG531177LRB	LRB	11/09/21 19:41				U	mg/L		-0.00022	0.00022			
WG531177LFB	LFB	11/09/21 19:43	MS210927-3	.05005		.04797	mg/L	96	85	115			
L69661-01LFM	LFM	11/09/21 20:26	MS210927-3	.05005	.00174	.048	mg/L	92	70	130			
L69661-01LFMD	LFMD	11/09/21 20:28	MS210927-3	.05005	.00174	.04901	mg/L	94	70	130	2	20	

Manganese, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531389													
WG531389ICV	ICV	11/10/21 11:01	MS211013-2	.05		.05277	mg/L	106	90	110			
WG531389ICB	ICB	11/10/21 11:03				U	mg/L		-0.00088	0.00088			
WG531389LFB	LFB	11/10/21 11:05	MS210927-3	.0499		.0502	mg/L	101	85	115			
WG530640PBW	PBW	11/10/21 11:07				U	mg/L		-0.0012	0.0012			
WG531053PBW	PBW	11/10/21 11:14				U	mg/L		-0.0012	0.0012			
L69638-01AS	AS	11/10/21 11:17	MS210927-3	.0499	.161	.2057	mg/L	90	70	130			
L69638-01ASD	ASD	11/10/21 11:19	MS210927-3	.0499	.161	.20699	mg/L	92	70	130	1	20	

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531081													
WG531081ICV	ICV	11/05/21 9:10	HG211004-3	.00501		.00508	mg/L	101	90	110			
WG531081ICB	ICB	11/05/21 9:11				U	mg/L		-0.0006	0.0006			
WG531051													
WG531051LRB	LRB	11/05/21 11:35				U	mg/L		-0.00044	0.00044			
WG531051LFB	LFB	11/05/21 11:36	HG211101-4	.002002		.00192	mg/L	96	85	115			
L69636-02LFM	LFM	11/05/21 11:38	HG211101-4	.002002	.0003	.00226	mg/L	98	85	115			
L69636-02LFMD	LFMD	11/05/21 11:39	HG211101-4	.002002	.0003	.00237	mg/L	103	85	115	5	20	

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531565													
WG531565LCSW1	LCSW	11/12/21 17:51	PCN62948	6		6.1	units	102	5.9	6.1			
L69663-02DUP	DUP	11/12/21 20:50			8.1	8.1	units				0	20	
WG531565LCSW4	LCSW	11/12/21 20:55	PCN62948	6		6.1	units	102	5.9	6.1			

OURAYSM

ACZ Project ID: **L69644**

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.

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

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531011													
WG531011PBW	PBW	11/04/21 9:07				U	mg/L		-2	2			
WG531011LCSW	LCSW	11/04/21 9:09	PCN64718	100		87	mg/L	87	80	120			
L69620-02DUP	DUP	11/04/21 9:27			26	22	mg/L				17	10	RA

Silver, potentially dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531389													
WG531389ICV	ICV	11/10/21 11:01	MS211013-2	.02		.02144	mg/L	107	90	110			
WG531389ICB	ICB	11/10/21 11:03				U	mg/L		-0.00022	0.00022			
WG531389LFB	LFB	11/10/21 11:05	MS210927-3	.01		.0102	mg/L	102	85	115			
WG530640PBW	PBW	11/10/21 11:07				U	mg/L		-0.0003	0.0003			
WG531053PBW	PBW	11/10/21 11:14				U	mg/L		-0.0003	0.0003			
L69638-01AS	AS	11/10/21 11:17	MS210927-3	.01	U	.0097	mg/L	97	70	130			
L69638-01ASD	ASD	11/10/21 11:19	MS210927-3	.01	U	.00955	mg/L	96	70	130	2	20	

Zinc, potentially dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531389													
WG531389ICV	ICV	11/10/21 11:01	MS211013-2	.05		.0516	mg/L	103	90	110			
WG531389ICB	ICB	11/10/21 11:03				U	mg/L		-0.0132	0.0132			
WG531389LFB	LFB	11/10/21 11:05	MS210927-3	.050075		.0531	mg/L	106	85	115			
WG530640PBW	PBW	11/10/21 11:07				U	mg/L		-0.018	0.018			
WG531053PBW	PBW	11/10/21 11:14				U	mg/L		-0.018	0.018			
L69638-01AS	AS	11/10/21 11:17	MS210927-3	.050075	.233	.2785	mg/L	91	70	130			
L69638-01ASD	ASD	11/10/21 11:19	MS210927-3	.050075	.233	.2789	mg/L	92	70	130	0	20	

Ouray Silver Mines

ACZ Project ID: **L69644**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L69644-01	WG531408	Cyanide, WAD	SM4500-CN I,E-Colorimetric w/ distillation	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500-CN I,E-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).
	WG531011	Residue, Non-Filterable (TSS) @105C	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

Ouray Silver Mines

ACZ Project ID: **L69644**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L69644

Date Received: 11/02/2021 09:24

Received By:

Date Printed: 11/3/2021

Receipt Verification

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

Samples/Containers

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

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?
7199	3.7	<=6.0	15	Yes

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.

Ouray Silver Mines

ACZ Project ID: L69644

Date Received: 11/02/2021 09:24

Received By:

Date Printed: 11/3/2021

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).

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

Report to:

Name: Briana Greer	Address: 112 Village Square W Suite 205. Ridgway CO, 81432 Telephone: 307-760-8838
Company: Solid Solution Geosciences LLC	
E-mail: briana@solidsolutiongeosciences.com	

Copy of Report to:

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

Invoice to:

Name: Ashlee Briggs		Address: PO BOX 564
Company: Ouray Silver Mines Inc.		Ouray, CO 81427
E-mail: abriggs@ouraysilvermines.com		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	☒
NO	☐

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	☒

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

Sampler's Name: Joshua A. Moore Sampler's Site Information State CO Zip code 81427 Time Zone Mt

*Sampler's Signature: Joshua Moore *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

ANALYSES REQUESTED (attach list or use quote number)

[illegible]

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
<i>E. Salinas / Moore</i>	<i>11/1/21 14:55</i>	<i>and</i>	<i>11/2/21</i>
			<i>11:49</i>

December 02, 2021

Report to:

Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Environmental, Accounts Payable

Bill to:

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

Project ID:

ACZ Project ID: L69938

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on November 16, 2021. This project has been assigned to ACZ's project number, L69938. Please reference this number in all future inquiries.

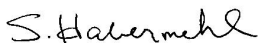
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L69938. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 January 01, 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: OF002A

ACZ Sample ID: **L69938-01**

Date Sampled: 11/15/21 13:20

Date Received: 11/16/21

Sample Matrix: Waste Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002- 31.5.31 (2009)								11/18/21 14:56	scp
Cyanide, WAD	SM4500-CN I- distillation								11/25/21 10:00	mjj1
Total Hot Plate Digestion	M200.2 ICP-MS								11/22/21 12:56	bsu
Total Recoverable Digestion	M200.2 ICP								11/30/21 15:41	kja

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, potentially dissolved	M200.8 ICP-MS	1	0.000203	B		mg/L	0.00005	0.00025	11/22/21 17:31	mfm
Copper, potentially dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	11/22/21 17:31	mfm
Iron, total recoverable	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	12/01/21 11:32	kja
Lead, potentially dissolved	M200.8 ICP-MS	1	0.00129			mg/L	0.0001	0.0005	11/22/21 17:31	mfm
Lead, total	M200.8 ICP-MS	1	0.00188			mg/L	0.0001	0.0005	11/29/21 17:51	scp
Manganese, potentially dissolved	M200.8 ICP-MS	1	0.260			mg/L	0.0004	0.002	11/22/21 17:31	mfm
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	11/23/21 14:26	mlh
Silver, potentially dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/29/21 18:06	bsu
Zinc, potentially dissolved	M200.8 ICP-MS	1	0.106			mg/L	0.006	0.015	11/22/21 17:31	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	11/25/21 14:02	mjj1
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	11/21/21 0:00	eep
pH measured at		1	22.7			C	0.1	0.1	11/21/21 0:00	eep
Residue, Non- Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	11/17/21 14:57	anc



Report Header Explanations

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

QC Sample Types

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

OURAYSM

ACZ Project ID: **L69938**

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.

Cadmium, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532279													
WG532279ICV	ICV	11/22/21 16:39	MS211013-2	.05		.052515	mg/L	105	90	110			
WG532279ICB	ICB	11/22/21 16:41				U	mg/L		-0.00011	0.00011			
WG532279LFB	LFB	11/22/21 16:42	MS211115-2	.05005		.048999	mg/L	98	85	115			
WG531633PBW	PBW	11/22/21 16:44				U	mg/L		-0.00015	0.00015			
WG531949PBW	PBW	11/22/21 16:48				U	mg/L		-0.00015	0.00015			
L69930-07AS	AS	11/22/21 17:17	MS211115-2	.05005	.000122	.053757	mg/L	107	70	130			
L69930-07ASD	ASD	11/22/21 17:18	MS211115-2	.05005	.000122	.053232	mg/L	106	70	130	1	20	

Copper, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532279													
WG532279ICV	ICV	11/22/21 16:39	MS211013-2	.05		.05139	mg/L	103	90	110			
WG532279ICB	ICB	11/22/21 16:41				U	mg/L		-0.00176	0.00176			
WG532279LFB	LFB	11/22/21 16:42	MS211115-2	.05		.04735	mg/L	95	85	115			
WG531633PBW	PBW	11/22/21 16:44				U	mg/L		-0.0024	0.0024			
WG531949PBW	PBW	11/22/21 16:48				U	mg/L		-0.0024	0.0024			
L69930-07AS	AS	11/22/21 17:17	MS211115-2	.05	.0168	.06301	mg/L	92	70	130			
L69930-07ASD	ASD	11/22/21 17:18	MS211115-2	.05	.0168	.06307	mg/L	93	70	130	0	20	

Cyanide, WAD

SM4500-CN I,E-Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532450													
WG532450ICV	ICV	11/25/21 13:55	WI211124-5	.3		.3004	mg/L	100	90	110			
WG532450ICB	ICB	11/25/21 13:56				U	mg/L		-0.003	0.003			
WG532444LRB	LRB	11/25/21 13:57				U	mg/L		-0.003	0.003			
WG532444LFB	LFB	11/25/21 13:58	WI211124-3	.2		.1974	mg/L	99	90	110			
L69926-01DUP	DUP	11/25/21 14:00			U	.0033	mg/L				200	20	RA
L69936-01LFM	LFM	11/25/21 14:01	WI211124-3	.2	.0036	.2001	mg/L	98	90	110			

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532665													
WG532665ICV	ICV	12/01/21 10:02	II211118-1	2		2.01	mg/L	101	95	105			
WG532665ICB	ICB	12/01/21 10:07				U	mg/L		-0.18	0.18			
WG532580LRB	LRB	12/01/21 10:20				U	mg/L		-0.132	0.132			
WG532580LFB	LFB	12/01/21 10:23	II211118-4	1.0001		.98	mg/L	98	85	115			
L70027-01LFM	LFM	12/01/21 11:41	II2XWATER	2.0022	U	2.128	mg/L	106	70	130			
L70027-01LFMD	LFMD	12/01/21 11:44	II2XWATER	2.0022	U	2.092	mg/L	104	70	130	2	20	

OURAYSM

ACZ Project ID: **L69938**

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.

Lead, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532279													
WG532279ICV	ICV	11/22/21 16:39	MS211013-2	.05		.05269	mg/L	105	90	110			
WG532279ICB	ICB	11/22/21 16:41				U	mg/L		-0.00022	0.00022			
WG532279LFB	LFB	11/22/21 16:42	MS211115-2	.05005		.05018	mg/L	100	85	115			
WG531633PBW	PBW	11/22/21 16:44				U	mg/L		-0.0003	0.0003			
WG531949PBW	PBW	11/22/21 16:48				U	mg/L		-0.0003	0.0003			
L69930-07AS	AS	11/22/21 17:17	MS211115-2	.05005	.00064	.05387	mg/L	106	70	130			
L69930-07ASD	ASD	11/22/21 17:18	MS211115-2	.05005	.00064	.05355	mg/L	106	70	130	1	20	

Lead, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532537													
WG532537ICV	ICV	11/29/21 17:06	MS211013-2	.05		.05282	mg/L	106	90	110			
WG532537ICB	ICB	11/29/21 17:08				U	mg/L		-0.0003	0.0003			
WG532182LRB	LRB	11/29/21 17:11				U	mg/L		-0.00022	0.00022			
WG532182LFB	LFB	11/29/21 17:13	MS211115-2	.05005		.05071	mg/L	101	85	115			
L69951-01LFM	LFM	11/29/21 17:55	MS211115-2	.05005	.00022	.0509	mg/L	101	70	130			
L69951-01LFMD	LFMD	11/29/21 17:57	MS211115-2	.05005	.00022	.0508	mg/L	101	70	130	0	20	

Manganese, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532279													
WG532279ICV	ICV	11/22/21 16:39	MS211013-2	.05		.05424	mg/L	108	90	110			
WG532279ICB	ICB	11/22/21 16:41				U	mg/L		-0.00088	0.00088			
WG532279LFB	LFB	11/22/21 16:42	MS211115-2	.0498		.05147	mg/L	103	85	115			
WG531633PBW	PBW	11/22/21 16:44				U	mg/L		-0.0012	0.0012			
WG531949PBW	PBW	11/22/21 16:48				U	mg/L		-0.0012	0.0012			
L69930-07AS	AS	11/22/21 17:17	MS211115-2	.0498	.0364	.08905	mg/L	106	70	130			
L69930-07ASD	ASD	11/22/21 17:18	MS211115-2	.0498	.0364	.08854	mg/L	105	70	130	1	20	

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532234													
WG532234ICV	ICV	11/23/21 9:51	HG211115-3	.00501		.00505	mg/L	101	95	105			
WG532234ICB	ICB	11/23/21 9:52				U	mg/L		-0.0002	0.0002			
WG532320													
WG532320LRB	LRB	11/23/21 14:24				U	mg/L		-0.00044	0.00044			
WG532320LFB	LFB	11/23/21 14:25	HG211115-6	.002002		.00201	mg/L	100	85	115			
L69938-01LFM	LFM	11/23/21 14:27	HG211115-6	.002002	U	.00207	mg/L	103	85	115			
L69938-01LFMD	LFMD	11/23/21 14:28	HG211115-6	.002002	U	.00199	mg/L	99	85	115	4	20	

OURAYSM

ACZ Project ID: **L69938**

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
WG532154													
WG532154LCSW1	LCSW	11/20/21 14:07	PCN62948	6		6.1	units	102	5.9	6.1			
WG532154LCSW4	LCSW	11/20/21 17:26	PCN62948	6		6.1	units	102	5.9	6.1			
WG532154LCSW7	LCSW	11/20/21 20:33	PCN62948	6		6.1	units	102	5.9	6.1			
WG532154LCSW10	LCSW	11/21/21 0:15	PCN62948	6		6.1	units	102	5.9	6.1			
L69949-01DUP	DUP	11/21/21 4:08			2.9	2.8	units				4	20	
WG532154LCSW13	LCSW	11/21/21 4:14	PCN62948	6		6.1	units	102	5.9	6.1			

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531935													
WG531935PBW	PBW	11/17/21 14:37				U	mg/L		-2	2			
WG531935LCSW	LCSW	11/17/21 14:39	PCN64723	100		101	mg/L	101	80	120			
L69951-01DUP	DUP	11/17/21 15:11			13	11	mg/L				17	10	RA

Silver, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532524													
WG532524ICV	ICV	11/29/21 17:56	MS211013-2	.02		.02172	mg/L	109	90	110			
WG532524ICB	ICB	11/29/21 17:58				U	mg/L		-0.00022	0.00022			
WG532524LFB	LFB	11/29/21 17:59	MS211115-2	.01		.0092	mg/L	92	85	115			
WG531949PBW	PBW	11/29/21 18:01				U	mg/L		-0.0003	0.0003			
WG532152PBW	PBW	11/29/21 18:09				U	mg/L		-0.0003	0.0003			
L69950-02AS	AS	11/29/21 18:17	MS211115-2	.01	U	.0083	mg/L	83	70	130			
L69950-02ASD	ASD	11/29/21 18:19	MS211115-2	.01	U	.00807	mg/L	81	70	130	3	20	

Zinc, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532279													
WG532279ICV	ICV	11/22/21 16:39	MS211013-2	.05		.0523	mg/L	105	90	110			
WG532279ICB	ICB	11/22/21 16:41				U	mg/L		-0.0132	0.0132			
WG532279LFB	LFB	11/22/21 16:42	MS211115-2	.050075		.0522	mg/L	104	85	115			
WG531633PBW	PBW	11/22/21 16:44				U	mg/L		-0.018	0.018			
WG531949PBW	PBW	11/22/21 16:48				U	mg/L		-0.018	0.018			
L69930-07AS	AS	11/22/21 17:17	MS211115-2	.050075	.128	.1832	mg/L	110	70	130			
L69930-07ASD	ASD	11/22/21 17:18	MS211115-2	.050075	.128	.1832	mg/L	110	70	130	0	20	

Ouray Silver Mines

ACZ Project ID: **L69938**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L69938-01	WG532450	Cyanide, WAD	SM4500-CN I,E-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).
	WG531935	Residue, Non-Filterable (TSS) @105C	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

Ouray Silver Mines

ACZ Project ID: **L69938**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L69938

Date Received: 11/16/2021 09:21

Received By:

Date Printed: 11/17/2021

Receipt Verification

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

Samples/Containers

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

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?
-----	-----	-----	-----	-----
6705	3.2	<=6.0	15	Yes

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.

Ouray Silver Mines

ACZ Project ID: L69938

Date Received: 11/16/2021 09:21

Received By:

Date Printed: 11/17/2021

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).



Laboratories, Inc.

L69938

CHAIN of CUSTODY

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

Report to:

Name: Briana Greer	Address: 112 Village Square W Suite 205.
Company: Solid Solution Geosciences LLC	Ridgway CO, 81432
E-mail: briana@solidsolutiongeosciences.com.com	Telephone: 307-760-8838

Copy of Report to:

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

Invoice to:

Name: Ashlee Briggs	Address: PO BOX 564
Company: Ouray Silver Mines Inc.	Ouray, CO 81427
E-mail: abriggs@ouraysilvermines.com	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 ☒
NO ☐

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 ☒

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

Sampler's Name: Joshua A. Moore Sampler's Site Information State CO Zip code 81427 Time Zone Mtn

*Sampler's Signature: *Joshua A. Moore*

*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

ANALYSES REQUESTED (attach list or use quote number)

Quote #: CDPS-BIMONTH-WW			# of Containers	CDPS-BIMONTH-WW									
PO#:													
Reporting state for compliance testing: CO													
Check box if samples include NRC licensed material?	☐												
SAMPLE IDENTIFICATION		DATE:TIME	Matrix										
OF002A	11/15/21 13:20	WW	4	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐
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December 03, 2021

Report to:

Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Environmental, Accounts Payable

Bill to:

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

Project ID:

ACZ Project ID: L69987

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on November 18, 2021. This project has been assigned to ACZ's project number, L69987. 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 L69987. 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 January 02, 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: UG-8

ACZ Sample ID: **L69987-01**

Date Sampled: 11/17/21 10:20

Date Received: 11/18/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								11/29/21 10:41	dmj1
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								11/21/21 17:19	bls

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	11/22/21 23:31	kja
Antimony, dissolved	M200.8 ICP-MS	1	0.00504			mg/L	0.0004	0.002	11/29/21 19:26	scp
Arsenic, dissolved	M200.8 ICP-MS	1	0.00425			mg/L	0.0002	0.001	11/29/21 19:26	scp
Barium, dissolved	M200.7 ICP	1	0.0401			mg/L	0.007	0.035	11/22/21 23:31	kja
Beryllium, dissolved	M200.8 ICP-MS	1	0.000092	B		mg/L	0.00008	0.00025	11/29/21 19:26	scp
Boron, dissolved	M200.7 ICP	1	0.052	B		mg/L	0.03	0.1	11/22/21 23:31	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.00559			mg/L	0.00005	0.00025	11/29/21 19:26	scp
Calcium, dissolved	M200.7 ICP	1	96.7			mg/L	0.1	0.5	11/22/21 23:31	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	11/29/21 19:26	scp
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	11/29/21 19:26	scp
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	11/22/21 23:31	kja
Lead, dissolved	M200.8 ICP-MS	1	0.00137			mg/L	0.0001	0.0005	11/29/21 19:26	scp
Magnesium, dissolved	M200.7 ICP	1	5.08			mg/L	0.2	1	11/22/21 23:31	kja
Manganese, dissolved	M200.7 ICP	1	7.85			mg/L	0.01	0.05	11/22/21 23:31	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	11/23/21 10:39	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.0144			mg/L	0.0002	0.0005	11/29/21 19:26	scp
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	11/22/21 23:31	kja
Potassium, dissolved	M200.7 ICP	1	5.77			mg/L	0.2	1	11/22/21 23:31	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00036			mg/L	0.0001	0.00025	11/29/21 19:26	scp
Silica, dissolved	M200.7 ICP	1	8.7			mg/L	0.2	1	11/22/21 23:31	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/29/21 19:26	scp
Sodium, dissolved	M200.7 ICP	1	18.7			mg/L	0.2	1	11/22/21 23:31	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/29/21 19:26	scp
Uranium, dissolved	M200.8 ICP-MS	1	0.00060			mg/L	0.0001	0.0005	11/29/21 19:26	scp
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	11/22/21 23:31	kja
Zinc, dissolved	M200.7 ICP	1	1.79			mg/L	0.02	0.05	11/22/21 23:31	kja

Ouray Silver Mines

Project ID:

Sample ID: UG-8

ACZ Sample ID: **L69987-01**

Date Sampled: 11/17/21 10:20

Date Received: 11/18/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	56.2			mg/L	2	20	11/24/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	11/24/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	11/24/21 0:00	eep
Total Alkalinity		1	56.2			mg/L	2	20	11/24/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			8.7			%			12/03/21 0:00	calc
Sum of Anions			5.8			meq/L			12/03/21 0:00	calc
Sum of Cations			6.9			meq/L			12/03/21 0:00	calc
Chloride	SM4500Cl-E	1	10.2		*	mg/L	0.5	2	12/01/21 14:26	md
Conductivity @25C	SM2510B	1	664			umhos/cm	1	10	11/24/21 4:52	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	0.0039	B	*	mg/L	0.003	0.01	11/29/21 16:08	syw
Fluoride	SM4500F-C	1	0.43			mg/L	0.15	0.35	12/02/21 18:01	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		262			mg/L	0.2	5	12/03/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	5	8.16		*	mg/L	0.1	0.5	11/28/21 0:25	pjb
pH (lab)	SM4500H+ B									
pH		1	7.3	H		units	0.1	0.1	11/24/21 0:00	eep
pH measured at		1	22.4			C	0.1	0.1	11/24/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.015	B		mg/L	0.01	0.05	11/24/21 0:41	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	446			mg/L	20	40	11/22/21 16:06	anc
Residue, Non-Filterable (TSS) @105C	SM2540D	1	16.0	B	*	mg/L	5	20	11/22/21 16:12	scd
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	10	208		*	mg/L	10	50	12/01/21 14:48	wtc
TDS (calculated)	Calculation		400			mg/L			12/03/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.12						12/03/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: UG-2

ACZ Sample ID: **L69987-02**

Date Sampled: 11/17/21 11:10

Date Received: 11/18/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								11/29/21 11:01	dmj1
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								11/21/21 17:25	bls

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	11/22/21 23:41	kja
Antimony, dissolved	M200.8 ICP-MS	1	0.00212			mg/L	0.0004	0.002	11/29/21 19:29	scp
Arsenic, dissolved	M200.8 ICP-MS	1	0.00259			mg/L	0.0002	0.001	11/29/21 19:29	scp
Barium, dissolved	M200.7 ICP	1	0.0375			mg/L	0.007	0.035	11/22/21 23:41	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	11/29/21 19:29	scp
Boron, dissolved	M200.7 ICP	1	0.031	B		mg/L	0.03	0.1	11/22/21 23:41	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.00219			mg/L	0.00005	0.00025	11/29/21 19:29	scp
Calcium, dissolved	M200.7 ICP	1	66.5			mg/L	0.1	0.5	11/22/21 23:41	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	11/29/21 19:29	scp
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	11/29/21 19:29	scp
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	11/22/21 23:41	kja
Lead, dissolved	M200.8 ICP-MS	1	0.00048	B		mg/L	0.0001	0.0005	11/29/21 19:29	scp
Magnesium, dissolved	M200.7 ICP	1	3.16			mg/L	0.2	1	11/22/21 23:41	kja
Manganese, dissolved	M200.7 ICP	1	2.74			mg/L	0.01	0.05	11/22/21 23:41	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	11/23/21 10:40	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00599			mg/L	0.0002	0.0005	11/29/21 19:29	scp
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	11/22/21 23:41	kja
Potassium, dissolved	M200.7 ICP	1	2.76			mg/L	0.2	1	11/22/21 23:41	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00034			mg/L	0.0001	0.00025	11/29/21 19:29	scp
Silica, dissolved	M200.7 ICP	1	7.6			mg/L	0.2	1	11/22/21 23:41	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/29/21 19:29	scp
Sodium, dissolved	M200.7 ICP	1	10.7			mg/L	0.2	1	11/22/21 23:41	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/29/21 19:29	scp
Uranium, dissolved	M200.8 ICP-MS	1	0.00038	B		mg/L	0.0001	0.0005	11/29/21 19:29	scp
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	11/22/21 23:41	kja
Zinc, dissolved	M200.7 ICP	1	0.689			mg/L	0.02	0.05	11/22/21 23:41	kja

Ouray Silver Mines

Project ID:

Sample ID: UG-2

ACZ Sample ID: **L69987-02**

Date Sampled: 11/17/21 11:10

Date Received: 11/18/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	53.3			mg/L	2	20	11/24/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	11/24/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	11/24/21 0:00	eep
Total Alkalinity		1	53.3			mg/L	2	20	11/24/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			6.0			%			12/03/21 0:00	calc
Sum of Anions			3.9			meq/L			12/03/21 0:00	calc
Sum of Cations			4.4			meq/L			12/03/21 0:00	calc
Chloride	SM4500Cl-E	1	4.73		*	mg/L	0.5	2	12/01/21 14:27	md
Conductivity @25C	SM2510B	1	433			umhos/cm	1	10	11/24/21 5:01	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	11/29/21 16:09	syw
Fluoride	SM4500F-C	1	0.27	B		mg/L	0.15	0.35	12/02/21 18:09	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		179			mg/L	0.2	5	12/03/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	3	4.19			mg/L	0.06	0.3	11/28/21 0:26	pjb
pH (lab)	SM4500H+ B									
pH		1	7.7	H		units	0.1	0.1	11/24/21 0:00	eep
pH measured at		1	22.5			C	0.1	0.1	11/24/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.082			mg/L	0.01	0.05	11/24/21 0:42	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	280			mg/L	20	40	11/22/21 16:08	anc
Residue, Non-Filterable (TSS) @105C	SM2540D	1	6.0	B	*	mg/L	5	20	11/22/21 16:14	scd
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	126		*	mg/L	5	25	12/01/21 14:36	wtc
TDS (calculated)	Calculation		260			mg/L			12/03/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.08						12/03/21 0:00	calc

Ouray Silver Mines

Project ID:

Sample ID: UG-5

ACZ Sample ID: **L69987-03**

Date Sampled: 11/17/21 11:40

Date Received: 11/18/21

Sample Matrix: Groundwater

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								11/29/21 11:12	dmj1
Phosphorus, total	M365.1 - Auto Ascorbic Acid Digestion								11/21/21 17:31	bls

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	11/22/21 23:44	kja
Antimony, dissolved	M200.8 ICP-MS	1	0.00192	B		mg/L	0.0004	0.002	11/29/21 19:31	scp
Arsenic, dissolved	M200.8 ICP-MS	1	0.00225			mg/L	0.0002	0.001	11/29/21 19:31	scp
Barium, dissolved	M200.7 ICP	1	0.0336	B		mg/L	0.007	0.035	11/22/21 23:44	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	11/29/21 19:31	scp
Boron, dissolved	M200.7 ICP	1	<0.03	U		mg/L	0.03	0.1	11/22/21 23:44	kja
Cadmium, dissolved	M200.8 ICP-MS	1	0.00139			mg/L	0.00005	0.00025	11/29/21 19:31	scp
Calcium, dissolved	M200.7 ICP	1	66.4			mg/L	0.1	0.5	11/22/21 23:44	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	11/29/21 19:31	scp
Copper, dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	11/29/21 19:31	scp
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	11/22/21 23:44	kja
Lead, dissolved	M200.8 ICP-MS	1	0.00050			mg/L	0.0001	0.0005	11/29/21 19:31	scp
Magnesium, dissolved	M200.7 ICP	1	2.55			mg/L	0.2	1	11/22/21 23:44	kja
Manganese, dissolved	M200.7 ICP	1	1.57			mg/L	0.01	0.05	11/22/21 23:44	kja
Mercury, dissolved	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	11/23/21 10:41	mlh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00844			mg/L	0.0002	0.0005	11/29/21 19:31	scp
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	11/22/21 23:44	kja
Potassium, dissolved	M200.7 ICP	1	2.43			mg/L	0.2	1	11/22/21 23:44	kja
Selenium, dissolved	M200.8 ICP-MS	1	0.00044			mg/L	0.0001	0.00025	11/29/21 19:31	scp
Silica, dissolved	M200.7 ICP	1	7.9			mg/L	0.2	1	11/22/21 23:44	kja
Silver, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/29/21 19:31	scp
Sodium, dissolved	M200.7 ICP	1	9.39			mg/L	0.2	1	11/22/21 23:44	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	11/29/21 19:31	scp
Uranium, dissolved	M200.8 ICP-MS	1	0.00029	B		mg/L	0.0001	0.0005	11/29/21 19:31	scp
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	11/22/21 23:44	kja
Zinc, dissolved	M200.7 ICP	1	0.425			mg/L	0.02	0.05	11/22/21 23:44	kja

Ouray Silver Mines

Project ID:

Sample ID: UG-5

ACZ Sample ID: **L69987-03**

Date Sampled: 11/17/21 11:40

Date Received: 11/18/21

Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	52.1			mg/L	2	20	11/24/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	11/24/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	11/24/21 0:00	eep
Total Alkalinity		1	52.1			mg/L	2	20	11/24/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			3.8			%			12/03/21 0:00	calc
Sum of Anions			3.8			meq/L			12/03/21 0:00	calc
Sum of Cations			4.1			meq/L			12/03/21 0:00	calc
Chloride	SM4500Cl-E	1	4.16		*	mg/L	0.5	2	12/01/21 14:29	md
Conductivity @25C	SM2510B	1	417			umhos/cm	1	10	11/24/21 5:11	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	0.0035	B	*	mg/L	0.003	0.01	11/29/21 16:19	syw
Fluoride	SM4500F-C	1	0.27	B		mg/L	0.15	0.35	12/02/21 18:17	eep
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		176			mg/L	0.2	5	12/03/21 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	2.94			mg/L	0.02	0.1	11/28/21 0:29	pjb
pH (lab)	SM4500H+ B									
pH		1	7.8	H		units	0.1	0.1	11/24/21 0:00	eep
pH measured at		1	22.6			C	0.1	0.1	11/24/21 0:00	eep
Phosphorus, total	M365.1 - Auto Ascorbic Acid (digest)	1	0.033	B		mg/L	0.01	0.05	11/24/21 0:43	pjb
Residue, Filterable (TDS) @180C	SM2540C	1	266			mg/L	20	40	11/22/21 16:11	anc
Residue, Non-Filterable (TSS) @105C	SM2540D	1	6.0	B	*	mg/L	5	20	11/22/21 16:16	scd
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	5	126		*	mg/L	5	25	12/01/21 14:34	wtc
TDS (calculated)	Calculation		255			mg/L			12/03/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.04						12/03/21 0:00	calc



Report Header Explanations

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

QC Sample Types

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

OURAYSM

ACZ Project ID: **L69987**

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
WG532365													
WG532365PBW1	PBW	11/23/21 20:05				U	mg/L		-20	20			
WG532365LCSW3	LCSW	11/23/21 20:27	WC211118-1	820.0001		815.6	mg/L	99	90	110			
WG532365LCSW6	LCSW	11/23/21 23:44	WC211118-1	820.0001		821.8	mg/L	100	90	110			
WG532365PBW2	PBW	11/23/21 23:53				2.6	mg/L		-20	20			
WG532365LCSW9	LCSW	11/24/21 4:28	WC211118-1	820.0001		806.1	mg/L	98	90	110			
WG532365PBW3	PBW	11/24/21 4:37				2.8	mg/L		-20	20			
L69993-02DUP	DUP	11/24/21 6:28			369	387.7	mg/L				5	20	
WG532365LCSW12	LCSW	11/24/21 8:05	WC211118-1	820.0001		829.8	mg/L	101	90	110			
WG532365PBW4	PBW	11/24/21 8:12				3	mg/L		-20	20			
WG532365LCSW15	LCSW	11/24/21 11:21	WC211118-1	820.0001		836.2	mg/L	102	90	110			

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532258													
WG532258ICV	ICV	11/22/21 22:43	II211118-1	2		2.026	mg/L	101	95	105			
WG532258ICB	ICB	11/22/21 22:49				U	mg/L		-0.15	0.15			
WG532258LFB	LFB	11/22/21 23:02	II211118-4	1.0008		1.019	mg/L	102	85	115			
L69984-04AS	AS	11/22/21 23:18	II211118-4	1.0008	U	1.063	mg/L	106	85	115			
L69984-04ASD	ASD	11/22/21 23:21	II211118-4	1.0008	U	1.045	mg/L	104	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
WG532535													
WG532535ICV	ICV	11/29/21 18:40	MS211013-2	.0201		.01956	mg/L	97	90	110			
WG532535ICB	ICB	11/29/21 18:42				U	mg/L		-0.00088	0.00088			
WG532535LFB	LFB	11/29/21 18:44	MS211115-2	.01		.01044	mg/L	104	85	115			
L69984-06AS	AS	11/29/21 19:22	MS211115-2	.01	.0144	.0249	mg/L	105	70	130			
L69984-06ASD	ASD	11/29/21 19:24	MS211115-2	.01	.0144	.02544	mg/L	110	70	130	2	20	

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532535													
WG532535ICV	ICV	11/29/21 18:40	MS211013-2	.05		.05102	mg/L	102	90	110			
WG532535ICB	ICB	11/29/21 18:42				U	mg/L		-0.00044	0.00044			
WG532535LFB	LFB	11/29/21 18:44	MS211115-2	.05005		.04852	mg/L	97	85	115			
L69984-06AS	AS	11/29/21 19:22	MS211115-2	.05005	.0128	.06554	mg/L	105	70	130			
L69984-06ASD	ASD	11/29/21 19:24	MS211115-2	.05005	.0128	.0658	mg/L	106	70	130	0	20	

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532258													
WG532258ICV	ICV	11/22/21 22:43	II211118-1	2		1.999	mg/L	100	95	105			
WG532258ICB	ICB	11/22/21 22:49				U	mg/L		-0.021	0.021			
WG532258LFB	LFB	11/22/21 23:02	II211118-4	.5		.4814	mg/L	96	85	115			
L69984-04AS	AS	11/22/21 23:18	II211118-4	.5	.0825	.5673	mg/L	97	85	115			
L69984-04ASD	ASD	11/22/21 23:21	II211118-4	.5	.0825	.5649	mg/L	96	85	115	0	20	

OURAYSM

ACZ Project ID: **L69987**

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
WG532535													
WG532535ICV	ICV	11/29/21 18:40	MS211013-2	.05		.054165	mg/L	108	90	110			
WG532535ICB	ICB	11/29/21 18:42				U	mg/L		-0.000176	0.000176			
WG532535LFB	LFB	11/29/21 18:44	MS211115-2	.05005		.052859	mg/L	106	85	115			
L69984-06AS	AS	11/29/21 19:22	MS211115-2	.05005	.014	.07386	mg/L	120	70	130			
L69984-06ASD	ASD	11/29/21 19:24	MS211115-2	.05005	.014	.074473	mg/L	121	70	130	1	20	

Boron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532258													
WG532258ICV	ICV	11/22/21 22:43	II211118-1	2		1.974	mg/L	99	95	105			
WG532258ICB	ICB	11/22/21 22:49				U	mg/L		-0.09	0.09			
WG532258LFB	LFB	11/22/21 23:02	II211118-4	.5005		.49	mg/L	98	85	115			
L69984-04AS	AS	11/22/21 23:18	II211118-4	.5005	.075	.575	mg/L	100	85	115			
L69984-04ASD	ASD	11/22/21 23:21	II211118-4	.5005	.075	.572	mg/L	99	85	115	1	20	

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532535													
WG532535ICV	ICV	11/29/21 18:40	MS211013-2	.05		.053703	mg/L	107	90	110			
WG532535ICB	ICB	11/29/21 18:42				U	mg/L		-0.00011	0.00011			
WG532535LFB	LFB	11/29/21 18:44	MS211115-2	.05005		.051758	mg/L	103	85	115			
L69984-06AS	AS	11/29/21 19:22	MS211115-2	.05005	.0143	.07368	mg/L	119	70	130			
L69984-06ASD	ASD	11/29/21 19:24	MS211115-2	.05005	.0143	.073735	mg/L	119	70	130	0	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532258													
WG532258ICV	ICV	11/22/21 22:43	II211118-1	100		99.13	mg/L	99	95	105			
WG532258ICB	ICB	11/22/21 22:49				U	mg/L		-0.3	0.3			
WG532258LFB	LFB	11/22/21 23:02	II211118-4	67.98808		67.86	mg/L	100	85	115			
L69984-04AS	AS	11/22/21 23:18	II211118-4	67.98808	81.1	145.2	mg/L	94	85	115			
L69984-04ASD	ASD	11/22/21 23:21	II211118-4	67.98808	81.1	145.4	mg/L	95	85	115	0	20	

Chloride

SM4500Cl-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532680													
WG532680ICV	ICV	12/01/21 14:10	WI210503-1	54.89		53.31	mg/L	97	90	110			
WG532680ICB	ICB	12/01/21 14:10				.53	mg/L		-1.5	1.5			
WG532680LFB1	LFB	12/01/21 14:11	WI210908-11	29.97		28.7	mg/L	96	90	110			
WG532680LFB2	LFB	12/01/21 14:26	WI210908-11	29.97		29.13	mg/L	97	90	110			
L69987-01AS	AS	12/01/21 14:27	WI210908-11	29.97	10.2	40.87	mg/L	102	90	110			
L69987-02DUP	DUP	12/01/21 14:28			4.73	4.73	mg/L				0	20	RA

OURAYSM

ACZ Project ID: **L69987**

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
WG532535													
WG532535ICV	ICV	11/29/21 18:40	MS211013-2	.05		.05225	mg/L	105	90	110			
WG532535ICB	ICB	11/29/21 18:42				U	mg/L		-0.0011	0.0011			
WG532535LFB	LFB	11/29/21 18:44	MS211115-2	.05		.04988	mg/L	100	85	115			
L69984-06AS	AS	11/29/21 19:22	MS211115-2	.05	.0121	.062	mg/L	100	70	130			
L69984-06ASD	ASD	11/29/21 19:24	MS211115-2	.05	.0121	.06297	mg/L	102	70	130	2	20	

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532365													
WG532365LCSW2	LCSW	11/23/21 20:12	PCN64229	1409		1544	umhos/cm	110	90	110			
WG532365LCSW5	LCSW	11/23/21 23:30	PCN64229	1409		1542	umhos/cm	109	90	110			
WG532365LCSW8	LCSW	11/24/21 4:15	PCN64229	1409		1542	umhos/cm	109	90	110			
L69993-02DUP	DUP	11/24/21 6:28			2660	2660	umhos/cm				0	20	
WG532365LCSW11	LCSW	11/24/21 7:50	PCN64229	1409		1538	umhos/cm	109	90	110			
WG532365LCSW14	LCSW	11/24/21 11:07	PCN64229	1409		1530	umhos/cm	109	90	110			

Copper, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532535													
WG532535ICV	ICV	11/29/21 18:40	MS211013-2	.05		.0518	mg/L	104	90	110			
WG532535ICB	ICB	11/29/21 18:42				U	mg/L		-0.00176	0.00176			
WG532535LFB	LFB	11/29/21 18:44	MS211115-2	.05		.0486	mg/L	97	85	115			
L69984-06AS	AS	11/29/21 19:22	MS211115-2	.05	.0118	.05705	mg/L	91	70	130			
L69984-06ASD	ASD	11/29/21 19:24	MS211115-2	.05	.0118	.05769	mg/L	92	70	130	1	20	

Cyanide, total

M335.4 - Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532544													
WG532544ICV	ICV	11/29/21 16:00	WI211124-5	.3		.3003	mg/L	100	90	110			
WG532544ICB	ICB	11/29/21 16:01				U	mg/L		-0.003	0.003			
WG532476LRB	LRB	11/29/21 16:02				U	mg/L		-0.003	0.003			
WG532476LFB	LFB	11/29/21 16:03	WI211124-4	.2		.1858	mg/L	93	90	110			
L69939-01DUP	DUP	11/29/21 16:07			.0035	U	mg/L				200	20	RA
L69987-01LFM	LFM	11/29/21 16:09	WI211124-4	.2	.0039	.1474	mg/L	72	90	110			M2

Fluoride

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532786													
WG532786ICV	ICV	12/02/21 12:57	WC211129-1	2.002		2.09	mg/L	104	90	110			
WG532786ICB	ICB	12/02/21 13:04				U	mg/L		-0.3	0.3			
WG532786LFB1	LFB	12/02/21 13:13	WC210803-9	5.02		5.02	mg/L	100	90	110			
WG532786LFB2	LFB	12/02/21 17:38	WC210803-9	5.02		4.84	mg/L	96	90	110			
L69990-01AS	AS	12/02/21 18:44	WC210803-9	5.02	.62	5.37	mg/L	95	90	110			
L69990-01ASD	ASD	12/02/21 18:52	WC210803-9	5.02	.62	5.34	mg/L	94	90	110	1	20	

OURAYSM

ACZ Project ID: **L69987**

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
WG532258													
WG532258ICV	ICV	11/22/21 22:43	II211118-1	2		1.997	mg/L	100	95	105			
WG532258ICB	ICB	11/22/21 22:49				U	mg/L		-0.18	0.18			
WG532258LFB	LFB	11/22/21 23:02	II211118-4	1.0001		1	mg/L	100	85	115			
L69984-04AS	AS	11/22/21 23:18	II211118-4	1.0001	U	1.002	mg/L	100	85	115			
L69984-04ASD	ASD	11/22/21 23:21	II211118-4	1.0001	U	.985	mg/L	98	85	115	2	20	

Lead, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532535													
WG532535ICV	ICV	11/29/21 18:40	MS211013-2	.05		.05245	mg/L	105	90	110			
WG532535ICB	ICB	11/29/21 18:42				U	mg/L		-0.00022	0.00022			
WG532535LFB	LFB	11/29/21 18:44	MS211115-2	.05005		.05248	mg/L	105	85	115			
L69984-06AS	AS	11/29/21 19:22	MS211115-2	.05005	.014	.07233	mg/L	117	70	130			
L69984-06ASD	ASD	11/29/21 19:24	MS211115-2	.05005	.014	.07336	mg/L	119	70	130	1	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532258													
WG532258ICV	ICV	11/22/21 22:43	II211118-1	100		96.15	mg/L	96	95	105			
WG532258ICB	ICB	11/22/21 22:49				U	mg/L		-0.6	0.6			
WG532258LFB	LFB	11/22/21 23:02	II211118-4	49.99847		47.55	mg/L	95	85	115			
L69984-04AS	AS	11/22/21 23:18	II211118-4	49.99847	15.4	62.86	mg/L	95	85	115			
L69984-04ASD	ASD	11/22/21 23:21	II211118-4	49.99847	15.4	63.05	mg/L	95	85	115	0	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532258													
WG532258ICV	ICV	11/22/21 22:43	II211118-1	2		1.945	mg/L	97	95	105			
WG532258ICB	ICB	11/22/21 22:49				U	mg/L		-0.03	0.03			
WG532258LFB	LFB	11/22/21 23:02	II211118-4	.499		.485	mg/L	97	85	115			
L69984-04AS	AS	11/22/21 23:18	II211118-4	.499	U	.486	mg/L	97	85	115			
L69984-04ASD	ASD	11/22/21 23:21	II211118-4	.499	U	.486	mg/L	97	85	115	0	20	

Mercury, dissolved

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532234													
WG532234ICV	ICV	11/23/21 9:51	HG211115-3	.00501		.00505	mg/L	101	95	105			
WG532234ICB	ICB	11/23/21 9:52				U	mg/L		-0.0002	0.0002			
WG532235													
WG532235LRB	LRB	11/23/21 10:27				U	mg/L		-0.00044	0.00044			
WG532235LFB	LFB	11/23/21 10:28	HG211115-6	.002002		.00186	mg/L	93	85	115			
L69984-02LFM	LFM	11/23/21 10:31	HG211115-6	.002002	U	.00186	mg/L	93	85	115			
L69984-02LFMD	LFMD	11/23/21 10:32	HG211115-6	.002002	U	.00186	mg/L	93	85	115	0	20	

OURAYSM

ACZ Project ID: **L69987**

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.

Molybdenum, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532535													
WG532535ICV	ICV	11/29/21 18:40	MS211013-2	.01992		.02047	mg/L	103	90	110			
WG532535ICB	ICB	11/29/21 18:42				U	mg/L		-0.00044	0.00044			
WG532535LFB	LFB	11/29/21 18:44	MS211115-2	.05005		.0505	mg/L	101	85	115			
L69984-06AS	AS	11/29/21 19:22	MS211115-2	.05005	.00164	.05963	mg/L	116	70	130			
L69984-06ASD	ASD	11/29/21 19:24	MS211115-2	.05005	.00164	.06004	mg/L	117	70	130	1	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532258													
WG532258ICV	ICV	11/22/21 22:43	II211118-1	2		1.9702	mg/L	99	95	105			
WG532258ICB	ICB	11/22/21 22:49				U	mg/L		-0.024	0.024			
WG532258LFB	LFB	11/22/21 23:02	II211118-4	.5		.4911	mg/L	98	85	115			
L69984-04AS	AS	11/22/21 23:18	II211118-4	.5	U	.4887	mg/L	98	85	115			
L69984-04ASD	ASD	11/22/21 23:21	II211118-4	.5	U	.486	mg/L	97	85	115	1	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
WG532461													
WG532461ICV	ICV	11/27/21 22:03	WI210904-1	2.4161		2.312	mg/L	96	90	110			
WG532461ICB	ICB	11/27/21 22:05				U	mg/L		-0.02	0.02			
WG532462													
WG532462LFB1	LFB	11/27/21 23:26	WI211001-5	2		2	mg/L	100	90	110			
L69769-03AS	AS	11/27/21 23:48	WI211001-5	2	U	2.441	mg/L	122	90	110			M1
L69770-03DUP	DUP	11/27/21 23:51			U	U	mg/L				0	20	RA
WG532462LFB2	LFB	11/28/21 0:07	WI211001-5	2		1.875	mg/L	94	90	110			
L69987-02AS	AS	11/28/21 0:28	WI211001-5	6	4.19	10.046	mg/L	98	90	110			
L69987-03DUP	DUP	11/28/21 0:35			2.94	2.953	mg/L				0	20	

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532365													
WG532365LCSW1	LCSW	11/23/21 20:10	PCN62948	6		6.1	units	102	5.9	6.1			
WG532365LCSW4	LCSW	11/23/21 23:28	PCN62948	6		6.1	units	102	5.9	6.1			
WG532365LCSW7	LCSW	11/24/21 4:13	PCN62948	6		6.1	units	102	5.9	6.1			
L69993-02DUP	DUP	11/24/21 6:28			7.7	7.6	units				1	20	
WG532365LCSW10	LCSW	11/24/21 7:48	PCN62948	6		6.1	units	102	5.9	6.1			
WG532365LCSW13	LCSW	11/24/21 11:05	PCN62948	6		6.1	units	102	5.9	6.1			

OURAYSM

ACZ Project ID: **L69987**

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.

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

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532373													
WG532373ICV	ICV	11/23/21 22:28	WI211112-2	.65228		.668	mg/L	102	90	110			
WG532373ICB	ICB	11/23/21 22:31				U	mg/L		-0.01	0.01			
WG532375													
WG532167LRB	LRB	11/24/21 0:12				U	mg/L		-0.01	0.01			
WG532167LFB	LFB	11/24/21 0:13	WI211115-4	.5		.474	mg/L	95	90	110			
L69932-10LFM	LFM	11/24/21 0:31	WI211115-4	.5	.102	.582	mg/L	96	90	110			
L69936-01DUP	DUP	11/24/21 0:50			2.02	2.024	mg/L				0	20	

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532258													
WG532258ICV	ICV	11/22/21 22:43	II211118-1	20		20	mg/L	100	95	105			
WG532258ICB	ICB	11/22/21 22:49				U	mg/L		-0.6	0.6			
WG532258LFB	LFB	11/22/21 23:02	II211118-4	99.96008		98.42	mg/L	98	85	115			
L69984-04AS	AS	11/22/21 23:18	II211118-4	99.96008	2.79	103.5	mg/L	101	85	115			
L69984-04ASD	ASD	11/22/21 23:21	II211118-4	99.96008	2.79	103.4	mg/L	101	85	115	0	20	

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532273													
WG532273PBW	PBW	11/22/21 15:32				U	mg/L		-20	20			
WG532273LCSW	LCSW	11/22/21 15:34	PCN64720	1000		964	mg/L	96	80	120			
L70044-02DUP	DUP	11/22/21 16:32			1840	1832	mg/L				0	10	

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

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532278													
WG532278PBW	PBW	11/22/21 15:55				U	mg/L		-5	5			
WG532278LCSW	LCSW	11/22/21 15:56	PCN64720	100		95	mg/L	95	80	120			
L69987-03DUP	DUP	11/22/21 16:18			6	6	mg/L				0	10	RA

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532535													
WG532535ICV	ICV	11/29/21 18:40	MS211013-2	.05		.05213	mg/L	104	90	110			
WG532535ICB	ICB	11/29/21 18:42				U	mg/L		-0.00022	0.00022			
WG532535LFB	LFB	11/29/21 18:44	MS211115-2	.05		.05008	mg/L	100	85	115			
L69984-06AS	AS	11/29/21 19:22	MS211115-2	.05	.0142	.07076	mg/L	113	70	130			
L69984-06ASD	ASD	11/29/21 19:24	MS211115-2	.05	.0142	.0718	mg/L	115	70	130	1	20	

OURAYSM

ACZ Project ID: **L69987**

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.

Silica, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532258													
WG532258ICV	ICV	11/22/21 22:43	II211118-1	42.8		43.81	mg/L	102	95	105			
WG532258ICB	ICB	11/22/21 22:49				U	mg/L		-0.6	0.6			
WG532258LFB	LFB	11/22/21 23:02	II211118-4	21.404		21.83	mg/L	102	85	115			
L69984-04AS	AS	11/22/21 23:18	II211118-4	21.404	5.1	27.24	mg/L	103	85	115			
L69984-04ASD	ASD	11/22/21 23:21	II211118-4	21.404	5.1	27.16	mg/L	103	85	115	0	20	

Silver, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532535													
WG532535ICV	ICV	11/29/21 18:40	MS211013-2	.02		.02177	mg/L	109	90	110			
WG532535ICB	ICB	11/29/21 18:42				U	mg/L		-0.00022	0.00022			
WG532535LFB	LFB	11/29/21 18:44	MS211115-2	.01		.01114	mg/L	111	85	115			
L69984-06AS	AS	11/29/21 19:22	MS211115-2	.01	.0109	.02171	mg/L	108	70	130			
L69984-06ASD	ASD	11/29/21 19:24	MS211115-2	.01	.0109	.02183	mg/L	109	70	130	1	20	

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532258													
WG532258ICV	ICV	11/22/21 22:43	II211118-1	100		100.18	mg/L	100	95	105			
WG532258ICB	ICB	11/22/21 22:49				U	mg/L		-0.6	0.6			
WG532258LFB	LFB	11/22/21 23:02	II211118-4	100.0086		98.45	mg/L	98	85	115			
L69984-04AS	AS	11/22/21 23:18	II211118-4	100.0086	47.7	146.6	mg/L	99	85	115			
L69984-04ASD	ASD	11/22/21 23:21	II211118-4	100.0086	47.7	146.1	mg/L	98	85	115	0	20	

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532675													
WG532675ICB	ICB	11/30/21 9:49				U	mg/L		-3	3			
WG532675ICV	ICV	11/30/21 9:49	WI211111-2	20		20.5	mg/L	103	90	110			
WG532675LFB	LFB	12/01/21 14:12	WI210105-3	10		9.9	mg/L	99	90	110			
L69987-03AS	AS	12/01/21 14:34	SO4TURB5X	10	126	132.6	mg/L	66	90	110			M3
L70018-01DUP	DUP	12/01/21 14:38			2370	2402.7	mg/L				1	20	

Thallium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532535													
WG532535ICV	ICV	11/29/21 18:40	MS211013-2	.05		.05379	mg/L	108	90	110			
WG532535ICB	ICB	11/29/21 18:42				U	mg/L		-0.00022	0.00022			
WG532535LFB	LFB	11/29/21 18:44	MS211115-2	.05		.0514	mg/L	103	85	115			
L69984-06AS	AS	11/29/21 19:22	MS211115-2	.05	.0141	.07203	mg/L	116	70	130			
L69984-06ASD	ASD	11/29/21 19:24	MS211115-2	.05	.0141	.07262	mg/L	117	70	130	1	20	

OURAYSM

ACZ Project ID: **L69987**

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.

Uranium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532535													
WG532535ICV	ICV	11/29/21 18:40	MS211013-2	.05		.05307	mg/L	106	90	110			
WG532535ICB	ICB	11/29/21 18:42				U	mg/L		-0.00022	0.00022			
WG532535LFB	LFB	11/29/21 18:44	MS211115-2	.05		.05223	mg/L	104	85	115			
L69984-06AS	AS	11/29/21 19:22	MS211115-2	.05	.00242	.06635	mg/L	128	70	130			
L69984-06ASD	ASD	11/29/21 19:24	MS211115-2	.05	.00242	.06725	mg/L	130	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
WG532258													
WG532258ICV	ICV	11/22/21 22:43	II211118-1	2		1.94	mg/L	97	95	105			
WG532258ICB	ICB	11/22/21 22:49				U	mg/L		-0.015	0.015			
WG532258LFB	LFB	11/22/21 23:02	II211118-4	.5005		.483	mg/L	97	85	115			
L69984-04AS	AS	11/22/21 23:18	II211118-4	.5005	U	.4881	mg/L	98	85	115			
L69984-04ASD	ASD	11/22/21 23:21	II211118-4	.5005	U	.487	mg/L	97	85	115	0	20	

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532258													
WG532258ICV	ICV	11/22/21 22:43	II211118-1	2		1.958	mg/L	98	95	105			
WG532258ICB	ICB	11/22/21 22:49				U	mg/L		-0.06	0.06			
WG532258LFB	LFB	11/22/21 23:02	II211118-4	.50045		.503	mg/L	101	85	115			
L69984-04AS	AS	11/22/21 23:18	II211118-4	.50045	U	.507	mg/L	101	85	115			
L69984-04ASD	ASD	11/22/21 23:21	II211118-4	.50045	U	.507	mg/L	101	85	115	0	20	

Ouray Silver Mines

ACZ Project ID: **L69987**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L69987-01	WG532680	Chloride	SM4500CI-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).
	WG532544	Cyanide, total	M335.4 - Colorimetric w/ distillation	M2	Matrix spike recovery was low, 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).
	WG532462	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M353.2 - H2SO4 preserved	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).
	WG532278	Residue, Non-Filterable (TSS) @105C	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).
L69987-02	WG532675	Sulfate	SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
			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.
	WG532680	Chloride	SM4500CI-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).
	WG532544	Cyanide, total	M335.4 - Colorimetric w/ distillation	M2	Matrix spike recovery was low, 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).
	WG532278	Residue, Non-Filterable (TSS) @105C	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).
L69987-03	WG532675	Sulfate	SM2540D	Z3	Sample volume yielded a residue less than 2.5 mg
			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.
	WG532680	Chloride	SM4500CI-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).
	WG532544	Cyanide, total	M335.4 - Colorimetric w/ distillation	M2	Matrix spike recovery was low, 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).
	WG532278	Residue, Non-Filterable (TSS) @105C	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).

Ouray Silver Mines

ACZ Project ID: **L69987**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L69987

Date Received: 11/18/2021 09:30

Received By:

Date Printed: 11/19/2021

Receipt Verification

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

Samples/Containers

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

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?
-----	-----	-----	-----	-----
NA36471	1	<=6.0	15	Yes

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.

Ouray Silver Mines

ACZ Project ID: L69987

Date Received: 11/18/2021 09:30

Received By:

Date Printed: 11/19/2021

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.** L69987

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

CHAIN of CUSTODY

Report to:

Name: Briana Greer
Company: Solid Solution Geosciences LLC
E-mail: briana@solidsolutiongeosciences.com.com

Address: 112 Village Square W Suite 205.
Ridgway CO, 81432
Telephone: 307-760-8838

Copy of Report to:

Name: Environmental
Company: Ouray Silver Mines Inc.

E-mail: environmental@ouraysilvermines.com
Telephone: 970-325-9830

Invoice to:

Name: Ashlee Briggs
Company: Ouray Silver Mines Inc.
E-mail: abriggs@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 ☒
NO ☐

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 ☒

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

Sampler's Name: Joshua A. Moore Sampler's Site Information State CO Zip code 81427 Time Zone Mtn

*Sampler's Signature: *Joshua A. Moore*

*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

ANALYSES REQUESTED (attach list or use quote number)

Quote #:	GW	PO#:	Reporting state for compliance testing:	CO	Check box if samples include NRC licensed material?	☐	SAMPLE IDENTIFICATION	DATE: TIME	Matrix	# of Containers	GW									
UG-8	11/17/21 10:26	GW	5	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
UG-2	11/17/21 11:10	GW	5	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
UG-5	11/17/21 11:40	GW	5	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

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

REMARKS

Underground mine water samples. No blank or duplicate collected. JAM

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

RELINQUISHED BY:

DATE: TIME

RECEIVED BY:

DATE: TIME

Joshua A. Moore

11/17/21 14:40

JAM

11/18/21 9:30

December 17, 2021

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: Briana Greer, Accounts Payable, Environmental

Project ID:

ACZ Project ID: L70075

Todd Jesse:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on November 22, 2021. This project has been assigned to ACZ's project number, L70075. Please reference this number in all future inquiries.

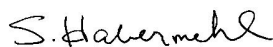
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L70075. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 January 16, 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: CWR_20211115

ACZ Sample ID: **L70075-01**

Date Sampled: 11/15/21 11:00

Date Received: 11/22/21

Sample Matrix: Soil

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)								12/02/21 14:24	bls
Total Hot Plate Digestion (1312)	M3010A ICP-MS								12/06/21 9:50	mfm
Total Hot Plate Digestion (1312)	M3010A ICP								12/06/21 16:12	kja

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum (1312)	M6010D ICP	1	0.267		*	mg/L	0.05	0.25	12/07/21 17:32	kja
Antimony (1312)	M6020B ICP-MS	1	0.00513		*	mg/L	0.0004	0.002	12/08/21 20:41	bsu
Arsenic (1312)	M6020B ICP-MS	1	0.0118		*	mg/L	0.0002	0.001	12/08/21 20:41	bsu
Barium (1312)	M6020B ICP-MS	1	0.0531		*	mg/L	0.0005	0.0025	12/08/21 20:41	bsu
Beryllium (1312)	M6020B ICP-MS	1	<0.00008	U	*	mg/L	0.00008	0.00025	12/08/21 20:41	bsu
Boron (1312)	M6010D ICP	1	<0.03	U	*	mg/L	0.03	0.1	12/07/21 17:32	kja
Cadmium (1312)	M6020B ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	12/08/21 20:41	bsu
Calcium (1312)	M6010D ICP	1	14.2		*	mg/L	0.1	0.5	12/07/21 17:32	kja
Chromium (1312)	M6020B ICP-MS	1	<0.0005	U	*	mg/L	0.0005	0.002	12/08/21 20:41	bsu
Cobalt (1312)	M6020B ICP-MS	1	0.000074	B		mg/L	0.00005	0.00025	12/08/21 20:41	bsu
Copper (1312)	M6020B ICP-MS	1	<0.0008	U	*	mg/L	0.0008	0.002	12/08/21 20:41	bsu
Iron (1312)	M6010D ICP	1	<0.06	U	*	mg/L	0.06	0.15	12/07/21 17:32	kja
Lead (1312)	M6020B ICP-MS	1	0.00285		*	mg/L	0.0001	0.0005	12/08/21 20:41	bsu
Lithium (1312)	M6010D ICP	1	<0.008	U	*	mg/L	0.008	0.04	12/07/21 17:32	kja
Magnesium (1312)	M6010D ICP	1	0.64	B	*	mg/L	0.2	1	12/07/21 17:32	kja
Manganese (1312)	M6020B ICP-MS	1	0.00765			mg/L	0.0004	0.002	12/08/21 20:41	bsu
Mercury (1312)	M7470A CVAA	1	<0.0002	U	*	mg/L	0.0002	0.001	12/06/21 15:51	mlh
Molybdenum (1312)	M6020B ICP-MS	1	0.0110		*	mg/L	0.0002	0.0005	12/08/21 20:41	bsu
Nickel (1312)	M6020B ICP-MS	1	<0.0004	U	*	mg/L	0.0004	0.001	12/08/21 20:41	bsu
Potassium (1312)	M6010D ICP	1	1.91		*	mg/L	0.2	1	12/07/21 17:32	kja
Selenium (1312)	M6020B ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.00025	12/08/21 20:41	bsu
Silica (1312)	M6010D ICP	1	6.7		*	mg/L	0.2	1	12/07/21 17:32	kja
Silver (1312)	M6020B ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	12/08/21 20:41	bsu
Sodium (1312)	M6010D ICP	1	6.19		*	mg/L	0.2	1	12/07/21 17:32	kja
Strontium (1312)	M6010D ICP	1	0.395		*	mg/L	0.009	0.045	12/07/21 17:32	kja
Thallium (1312)	M6020B ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	12/08/21 20:41	bsu
Tin (1312)	M6010D ICP	1	<0.04	U	*	mg/L	0.04	0.2	12/07/21 17:32	kja
Uranium (1312)	M6020B ICP-MS	1	<0.0001	U	*	mg/L	0.0001	0.0005	12/08/21 20:41	bsu
Vanadium (1312)	M6020B ICP-MS	1	0.00100	B	*	mg/L	0.0005	0.002	12/09/21 12:13	bsu
Zinc (1312)	M6020B ICP-MS	1	<0.006	U		mg/L	0.006	0.015	12/08/21 20:41	bsu

Soil Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
pH, (1312)	M9045D/M9040C									
pH			8.9			Units	0.1	0.1	12/17/21 0:00	ZLN
Temperature			19.5			Units	0.1	0.1	12/17/21 0:00	ZLN

Ouray Silver Mines

Project ID:

Sample ID: CWR_20211115

ACZ Sample ID: **L70075-01**

Date Sampled: 11/15/21 11:00

Date Received: 11/22/21

Sample Matrix: Soil

Soil Preparation

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Synthetic Precip. Leaching Procedure	M1312								12/02/21 8:53	zln
Synthetic Precip. Leaching Procedure	M1312, DI Water								11/30/21 16:25	zln

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity (1312 DI)	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	16.4	B	*	mg/L	2	20	12/02/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U	*	mg/L	2	20	12/02/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U	*	mg/L	2	20	12/02/21 0:00	eep
Total Alkalinity		1	16.4	B	*	mg/L	2	20	12/02/21 0:00	eep
Bromide (1312-DI)	M300.0 - Ion Chromatography	1	<0.05	U	*	mg/L	0.05	0.25	12/10/21 4:21	krh
Carbon, total organic (TOC) (1312-DI)	SM5310B	1	<1	U	*	mg/L	1	5	12/09/21 15:16	md
Chloride (1312-DI)	M300.0 - Ion Chromatography	1	<0.4	U	*	mg/L	0.4	2	12/10/21 4:21	krh
Conductivity @25C (1312-DI)	SM2510B	1	88		*	umhos/cm	1	10	12/08/21 13:38	eep
Fluoride (1312 DI)	SM4500F-C	2	<0.3	U	*	mg/L	0.3	0.7	12/11/21 12:33	eep
Hardness as CaCO ₃ (1312)	SM2340B - Calculation		38			mg/L	0.2	5	12/17/21 0:00	calc
Nitrate (1312 DI)	Calculation: NO ₃ NO ₂ minus NO ₂		4.09			mg/L	0.06	0.3	12/17/21 0:00	calc
Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	3	4.09		*	mg/L	0.06	0.3	12/02/21 2:35	pjb
Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	1	<0.01	U	*	mg/L	0.01	0.05	12/02/21 2:30	pjb
Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion	1	<0.05	U	*	mg/L	0.05	0.2	12/16/21 20:20	syw
Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic Acid	1	<0.01	U	*	mg/L	0.01	0.05	12/01/21 22:22	pjb
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)	1	<0.01	U	*	mg/L	0.01	0.05	12/15/21 10:04	mjj1
Residue, Filterable (TDS) @180C (1312)	SM2540C	1	64		*	mg/L	20	40	12/07/21 17:00	eep\
Residue, Non-Filter (TSS) @180C (1312- DI)	SM2540D	2	<10	U	*	mg/L	10	40	12/07/21 20:55	eep
Sulfate (1312-DI)	M300.0 - Ion Chromatography	1	6.73		*	mg/L	0.4	2	12/10/21 4:21	krh

Report Header Explanations

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

QC Sample Types

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

OURAYSM

ACZ Project ID: **L70075**

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
WG532819													
WG532819PBW	PBW	12/02/21 13:50				2.2	mg/L		-20	20			
WG532819LCSW2	LCSW	12/02/21 14:06	WC211118-1	820.0001		818.8	mg/L	100	90	110			
WG532516PBS	PBS	12/02/21 14:14				5	mg/L		-20	20			
L70073-01DUP	DUP	12/02/21 14:26			U	U	mg/L				0	20	RA
WG532819LCSW4	LCSW	12/02/21 15:00	WC211118-1	820.0001		799.2	mg/L	97	90	110			

Aluminum (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533089													
WG533089ICV	ICV	12/07/21 16:20	II211124-3	2		1.971	mg/L	99	90	110			
WG533089ICB	ICB	12/07/21 16:24				U	mg/L		-0.15	0.15			
WG532683PBS	PBS	12/07/21 16:48				U	mg/L		-0.15	0.15			
WG532683LFB1	LFB	12/07/21 16:51	II211118-4	1.0008		.975	mg/L	97	80	120			
L70052-02MS	MS	12/07/21 17:03	II211118-4	1.0008	16.9	18.17	mg/L	127	75	125			M3
L70052-02MSD	MSD	12/07/21 17:06	II211118-4	1.0008	16.9	18.24	mg/L	134	75	125	0	20	M3
L70073-02DUP	DUP	12/07/21 17:17			U	U	mg/L				0	20	RA

Antimony (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533205													
WG533205ICV	ICV	12/08/21 19:58	MS211013-2	.0201		.02041	mg/L	102	90	110			
WG533205ICB	ICB	12/08/21 20:00				.00041	mg/L		-0.0012	0.0012			
WG532683PBS	PBS	12/08/21 20:30				U	mg/L		-0.0012	0.0012			
WG532683LFB2	LFB	12/08/21 20:31	MS211115-2	.01		.01037	mg/L	104	80	120			
L70073-02DUP	DUP	12/08/21 20:40			U	U	mg/L				0	20	RA
L70075-01MS	MS	12/08/21 20:43	MS211115-2	.01	.00513	.01546	mg/L	103	75	125			
L70075-01MSD	MSD	12/08/21 20:45	MS211115-2	.01	.00513	.01576	mg/L	106	75	125	2	20	

Arsenic (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533205													
WG533205ICV	ICV	12/08/21 19:58	MS211013-2	.05		.04995	mg/L	100	90	110			
WG533205ICB	ICB	12/08/21 20:00				U	mg/L		-0.0006	0.0006			
WG532683PBS	PBS	12/08/21 20:30				U	mg/L		-0.0006	0.0006			
WG532683LFB2	LFB	12/08/21 20:31	MS211115-2	.05005		.05013	mg/L	100	80	120			
L70073-02DUP	DUP	12/08/21 20:40			U	U	mg/L				0	20	RA
L70075-01MS	MS	12/08/21 20:43	MS211115-2	.05005	.0118	.06225	mg/L	101	75	125			
L70075-01MSD	MSD	12/08/21 20:45	MS211115-2	.05005	.0118	.06156	mg/L	99	75	125	1	20	

OURAYSM

ACZ Project ID: **L70075**

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.

Barium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533205													
WG533205ICV	ICV	12/08/21 19:58	MS211013-2	.05		.0525	mg/L	105	90	110			
WG533205ICB	ICB	12/08/21 20:00				U	mg/L		-0.0015	0.0015			
WG532683PBS	PBS	12/08/21 20:30				.00126	mg/L		-0.0015	0.0015			
WG532683LFB2	LFB	12/08/21 20:31	MS211115-2	.049985		.05072	mg/L	101	80	120			
L70073-02DUP	DUP	12/08/21 20:40			.0294	.02836	mg/L				4	20	
L70075-01MS	MS	12/08/21 20:43	MS211115-2	.049985	.0531	.10155	mg/L	97	75	125			
L70075-01MSD	MSD	12/08/21 20:45	MS211115-2	.049985	.0531	.10388	mg/L	102	75	125	2	20	

Beryllium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533205													
WG533205ICV	ICV	12/08/21 19:58	MS211013-2	.05		.049368	mg/L	99	90	110			
WG533205ICB	ICB	12/08/21 20:00				U	mg/L		-0.00024	0.00024			
WG532683PBS	PBS	12/08/21 20:30				U	mg/L		-0.00024	0.00024			
WG532683LFB2	LFB	12/08/21 20:31	MS211115-2	.05005		.050595	mg/L	101	80	120			
L70073-02DUP	DUP	12/08/21 20:40			.000083	.000141	mg/L				52	20	RA
L70075-01MS	MS	12/08/21 20:43	MS211115-2	.05005	U	.050291	mg/L	100	75	125			
L70075-01MSD	MSD	12/08/21 20:45	MS211115-2	.05005	U	.050197	mg/L	100	75	125	0	20	

Boron (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533089													
WG533089ICV	ICV	12/07/21 16:20	II211124-3	2		2.02	mg/L	101	90	110			
WG533089ICB	ICB	12/07/21 16:24				U	mg/L		-0.09	0.09			
WG532683PBS	PBS	12/07/21 16:48				U	mg/L		-0.09	0.09			
WG532683LFB1	LFB	12/07/21 16:51	II211118-4	.5005		.514	mg/L	103	80	120			
L70052-02MS	MS	12/07/21 17:03	II211118-4	.5005	.678	1.181	mg/L	100	75	125			
L70052-02MSD	MSD	12/07/21 17:06	II211118-4	.5005	.678	1.188	mg/L	102	75	125	1	20	
L70073-02DUP	DUP	12/07/21 17:17			U	U	mg/L				0	20	RA

Bromide (1312-DI)

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531660													
WG531660ICV	ICV	11/12/21 16:42	WI211108-9	3.996		4.032	mg/L	101	90	110			
WG531660ICB	ICB	11/12/21 16:59				U	mg/L		-0.05	0.05			
WG533276													
WG533276LFB	LFB	12/10/21 3:09	WI211112-6	1.5		1.413	mg/L	94	90	110			
WG532516PBS	PBS	12/10/21 3:27				U	mg/L		-0.05	0.05			
L70073-01DUP	DUP	12/10/21 4:03			U	U	mg/L				0	20	RA
L70075-01AS	AS	12/10/21 4:39	WI211112-6	1.5	U	1.437	mg/L	96	90	110			

OURAYSM

ACZ Project ID: **L70075**

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.

Cadmium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533205													
WG533205ICV	ICV	12/08/21 19:58	MS211013-2	.05		.05076	mg/L	102	90	110			
WG533205ICB	ICB	12/08/21 20:00				U	mg/L		-0.00015	0.00015			
WG532683PBS	PBS	12/08/21 20:30				U	mg/L		-0.00015	0.00015			
WG532683LFB2	LFB	12/08/21 20:31	MS211115-2	.05005		.048136	mg/L	96	80	120			
L70073-02DUP	DUP	12/08/21 20:40			.000787	.000893	mg/L				13	20	
L70075-01MS	MS	12/08/21 20:43	MS211115-2	.05005	U	.04717	mg/L	94	75	125			
L70075-01MSD	MSD	12/08/21 20:45	MS211115-2	.05005	U	.047642	mg/L	95	75	125	1	20	

Calcium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533089													
WG533089ICV	ICV	12/07/21 16:20	II211124-3	100		98.11	mg/L	98	90	110			
WG533089ICB	ICB	12/07/21 16:24				U	mg/L		-0.3	0.3			
WG532683PBS	PBS	12/07/21 16:48				U	mg/L		-0.3	0.3			
WG532683LFB1	LFB	12/07/21 16:51	II211118-4	67.98808		68.04	mg/L	100	80	120			
L70052-02MS	MS	12/07/21 17:03	II211118-4	67.98808	70	136.8	mg/L	98	75	125			
L70052-02MSD	MSD	12/07/21 17:06	II211118-4	67.98808	70	140.2	mg/L	103	75	125	2	20	
L70073-02DUP	DUP	12/07/21 17:17			3.83	4.8	mg/L				22	20	RD

Carbon, total organic (TOC) (1312-DI)

SM5310B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG528980													
WG528980ICV	ICV	10/08/21 13:55	WI210921-3	100		100.9	mg/L	101	90	110			
WG528980ICB	ICB	10/08/21 14:03				U	mg/L		-3	3			
WG533057													
WG533057LFB	LFB	12/09/21 14:34	WI210921-5	49.94		48.3	mg/L	97	90	110			
WG532516PBS	PBS	12/09/21 14:47				U	mg/L		-3	3			
L70073-01DUP	DUP	12/09/21 15:07			U	U	mg/L				0	20	RA
L70075-01AS	AS	12/09/21 15:27	WI210921-5	49.94	U	47.2	mg/L	95	90	110			

Chloride (1312-DI)

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531660													
WG531660ICV	ICV	11/12/21 16:42	WI211108-9	19.96		20.32	mg/L	102	90	110			
WG531660ICB	ICB	11/12/21 16:59				U	mg/L		-0.4	0.4			
WG533276													
WG533276LFB	LFB	12/10/21 3:09	WI211112-6	30		29.75	mg/L	99	90	110			
WG532516PBS	PBS	12/10/21 3:27				U	mg/L		-0.4	0.4			
L70073-01DUP	DUP	12/10/21 4:03			U	U	mg/L				0	20	RA
L70075-01AS	AS	12/10/21 4:39	WI211112-6	30	U	31.17	mg/L	104	90	110			

OURAYSM

ACZ Project ID: **L70075**

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 (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533205													
WG533205ICV	ICV	12/08/21 19:58	MS211013-2	.05		.05178	mg/L	104	90	110			
WG533205ICB	ICB	12/08/21 20:00				U	mg/L		-0.0015	0.0015			
WG532683PBS	PBS	12/08/21 20:30				U	mg/L		-0.0015	0.0015			
WG532683LFB2	LFB	12/08/21 20:31	MS211115-2	.05		.05115	mg/L	102	80	120			
L70073-02DUP	DUP	12/08/21 20:40			U	U	mg/L				0	20	RA
L70075-01MS	MS	12/08/21 20:43	MS211115-2	.05	U	.05089	mg/L	102	75	125			
L70075-01MSD	MSD	12/08/21 20:45	MS211115-2	.05	U	.05042	mg/L	101	75	125	1	20	

Cobalt (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533205													
WG533205ICV	ICV	12/08/21 19:58	MS211013-2	.05		.050733	mg/L	101	90	110			
WG533205ICB	ICB	12/08/21 20:00				U	mg/L		-0.00015	0.00015			
WG532683PBS	PBS	12/08/21 20:30				U	mg/L		-0.00015	0.00015			
WG532683LFB2	LFB	12/08/21 20:31	MS211115-2	.05005		.049062	mg/L	98	80	120			
L70073-02DUP	DUP	12/08/21 20:40			.000816	.000902	mg/L				10	20	
L70075-01MS	MS	12/08/21 20:43	MS211115-2	.05005	.000074	.048514	mg/L	97	75	125			
L70075-01MSD	MSD	12/08/21 20:45	MS211115-2	.05005	.000074	.047922	mg/L	96	75	125	1	20	

Conductivity @25C (1312-DI)

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533166													
WG533166PBW	PBW	12/08/21 13:29				2	umhos/cm		-10	10			
WG533166LCSW1	LCSW	12/08/21 13:30	PCN64229	1409		1423	umhos/cm	101	90	110			
WG532516PBS	PBS	12/08/21 13:32				U	umhos/cm		-4	4			
L70073-01DUP	DUP	12/08/21 13:36			113	166	umhos/cm				38	20	RD
WG533166LCSW2	LCSW	12/08/21 13:40	PCN64229	1409		1418	umhos/cm	101	90	110			

Copper (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533205													
WG533205ICV	ICV	12/08/21 19:58	MS211013-2	.05		.05211	mg/L	104	90	110			
WG533205ICB	ICB	12/08/21 20:00				U	mg/L		-0.0024	0.0024			
WG532683PBS	PBS	12/08/21 20:30				U	mg/L		-0.0024	0.0024			
WG532683LFB2	LFB	12/08/21 20:31	MS211115-2	.05		.05132	mg/L	103	80	120			
L70073-02DUP	DUP	12/08/21 20:40			.00469	.00435	mg/L				8	20	RA
L70075-01MS	MS	12/08/21 20:43	MS211115-2	.05	U	.05063	mg/L	101	75	125			
L70075-01MSD	MSD	12/08/21 20:45	MS211115-2	.05	U	.04994	mg/L	100	75	125	1	20	

Fluoride (1312 DI)

SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533381													
WG533381ICV	ICV	12/11/21 11:46	WC211129-1	2.002		2.05	mg/L	102	90	110			
WG533381ICB	ICB	12/11/21 11:50				U	mg/L		-0.3	0.3			
WG533381LFB	LFB	12/11/21 11:59	WC210803-9	5.02		4.84	mg/L	96	90	110			
WG532516PBS	PBS	12/11/21 12:03				U	mg/L		-0.3	0.3			
L70073-01AS	AS	12/11/21 12:19	WC210803-9	5.02	U	4.23	mg/L	84	90	110			M2
L70073-01DUP	DUP	12/11/21 12:27			U	U	mg/L				0	20	RA

OURAYSM

ACZ Project ID: **L70075**

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 (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533089													
WG533089ICV	ICV	12/07/21 16:20	II211124-3	2		1.977	mg/L	99	90	110			
WG533089ICB	ICB	12/07/21 16:24				U	mg/L		-0.18	0.18			
WG532683PBS	PBS	12/07/21 16:48				U	mg/L		-0.18	0.18			
WG532683LFB1	LFB	12/07/21 16:51	II211118-4	1.0001		.965	mg/L	96	80	120			
L70052-02MS	MS	12/07/21 17:03	II211118-4	1.0001	U	.961	mg/L	96	75	125			
L70052-02MSD	MSD	12/07/21 17:06	II211118-4	1.0001	U	.98	mg/L	98	75	125	2	20	
L70073-02DUP	DUP	12/07/21 17:17			U	U	mg/L				0	20	RA

Lead (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533205													
WG533205ICV	ICV	12/08/21 19:58	MS211013-2	.05		.05032	mg/L	101	90	110			
WG533205ICB	ICB	12/08/21 20:00				U	mg/L		-0.0003	0.0003			
WG532683PBS	PBS	12/08/21 20:30				U	mg/L		-0.0003	0.0003			
WG532683LFB2	LFB	12/08/21 20:31	MS211115-2	.05005		.04933	mg/L	99	80	120			
L70073-02DUP	DUP	12/08/21 20:40			.00028	.00029	mg/L				4	20	RA
L70075-01MS	MS	12/08/21 20:43	MS211115-2	.05005	.00285	.05361	mg/L	101	75	125			
L70075-01MSD	MSD	12/08/21 20:45	MS211115-2	.05005	.00285	.05299	mg/L	100	75	125	1	20	

Lithium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533089													
WG533089ICV	ICV	12/07/21 16:20	II211124-3	2		1.994	mg/L	100	90	110			
WG533089ICB	ICB	12/07/21 16:24				U	mg/L		-0.024	0.024			
WG532683PBS	PBS	12/07/21 16:48				U	mg/L		-0.024	0.024			
WG532683LFB1	LFB	12/07/21 16:51	II211118-4	.999		.9618	mg/L	96	80	120			
L70052-02MS	MS	12/07/21 17:03	II211118-4	.999	U	.9988	mg/L	100	75	125			
L70052-02MSD	MSD	12/07/21 17:06	II211118-4	.999	U	1.002	mg/L	100	75	125	0	20	
L70073-02DUP	DUP	12/07/21 17:17			U	U	mg/L				0	20	RA

Magnesium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533089													
WG533089ICV	ICV	12/07/21 16:20	II211124-3	100		95.05	mg/L	95	90	110			
WG533089ICB	ICB	12/07/21 16:24				U	mg/L		-0.6	0.6			
WG532683PBS	PBS	12/07/21 16:48				U	mg/L		-0.6	0.6			
WG532683LFB1	LFB	12/07/21 16:51	II211118-4	49.99847		47.7	mg/L	95	80	120			
L70052-02MS	MS	12/07/21 17:03	II211118-4	49.99847	U	46.3	mg/L	93	75	125			
L70052-02MSD	MSD	12/07/21 17:06	II211118-4	49.99847	U	48.59	mg/L	97	75	125	5	20	
L70073-02DUP	DUP	12/07/21 17:17			.35	.39	mg/L				11	20	RA

OURAYSM

ACZ Project ID: **L70075**

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.

Manganese (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533205													
WG533205ICV	ICV	12/08/21 19:58	MS211013-2	.05		.05169	mg/L	103	90	110			
WG533205ICB	ICB	12/08/21 20:00				U	mg/L		-0.0012	0.0012			
WG532683PBS	PBS	12/08/21 20:30				U	mg/L		-0.0012	0.0012			
WG532683LFB2	LFB	12/08/21 20:31	MS211115-2	.0498		.04963	mg/L	100	80	120			
L70073-02DUP	DUP	12/08/21 20:40			.121	.13398	mg/L				10	20	
L70075-01MS	MS	12/08/21 20:43	MS211115-2	.0498	.00765	.05686	mg/L	99	75	125			
L70075-01MSD	MSD	12/08/21 20:45	MS211115-2	.0498	.00765	.05615	mg/L	97	75	125	1	20	

Mercury (1312)

M7470A CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532972													
WG532972ICV	ICV	12/06/21 14:30	HG211115-3	.00501		.00508	mg/L	101	95	105			
WG532972ICB	ICB	12/06/21 14:31				U	mg/L		-0.0002	0.0002			
WG532976													
WG532683PBS	PBS	12/06/21 15:40				U	mg/L		-0.0006	0.0006			
WG532683LFB1	LFB	12/06/21 15:41	HG211130-4	.002002		.00201	mg/L	100	85	115			
L70052-02MS	MS	12/06/21 15:44	HG211130-4	.002002	U	.00204	mg/L	102	85	115			
L70052-02MSD	MSD	12/06/21 15:45	HG211130-4	.002002	U	.00206	mg/L	103	85	115	1	20	
L70073-02DUP	DUP	12/06/21 15:48			U	U	mg/L				0	20	RA

Molybdenum (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533205													
WG533205ICV	ICV	12/08/21 19:58	MS211013-2	.01992		.02035	mg/L	102	90	110			
WG533205ICB	ICB	12/08/21 20:00				U	mg/L		-0.0006	0.0006			
WG532683PBS	PBS	12/08/21 20:30				U	mg/L		-0.0006	0.0006			
WG532683LFB2	LFB	12/08/21 20:31	MS211115-2	.05005		.05056	mg/L	101	80	120			
L70073-02DUP	DUP	12/08/21 20:40			U	U	mg/L				0	20	RA
L70075-01MS	MS	12/08/21 20:43	MS211115-2	.05005	.011	.06015	mg/L	98	75	125			
L70075-01MSD	MSD	12/08/21 20:45	MS211115-2	.05005	.011	.05907	mg/L	96	75	125	2	20	

Nickel (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533205													
WG533205ICV	ICV	12/08/21 19:58	MS211013-2	.05		.05169	mg/L	103	90	110			
WG533205ICB	ICB	12/08/21 20:00				U	mg/L		-0.0012	0.0012			
WG532683PBS	PBS	12/08/21 20:30				U	mg/L		-0.0012	0.0012			
WG532683LFB2	LFB	12/08/21 20:31	MS211115-2	.05		.05047	mg/L	101	80	120			
L70073-02DUP	DUP	12/08/21 20:40			.00145	.00164	mg/L				12	20	RA
L70075-01MS	MS	12/08/21 20:43	MS211115-2	.05	U	.04962	mg/L	99	75	125			
L70075-01MSD	MSD	12/08/21 20:45	MS211115-2	.05	U	.04924	mg/L	98	75	125	1	20	

OURAYSM

ACZ Project ID: **L70075**

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.

Nitrate/Nitrite as N (1312-DI)

M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532749													
WG532749ICV	ICV	12/02/21 1:16	WI210904-1	2.4161		2.376	mg/L	98	90	110			
WG532749ICB	ICB	12/02/21 1:17				U	mg/L		-0.02	0.02			
WG532752													
WG532752LFB	LFB	12/02/21 2:25	WI211001-5	2		2.026	mg/L	101	90	110			
WG532516PBS	PBS	12/02/21 2:26				U	mg/L		-0.02	0.02			
L70073-01DUP	DUP	12/02/21 2:29			U	U	mg/L				0	20	RA
L70075-01AS	AS	12/02/21 2:36	WI211001-5	6	4.09	10.259	mg/L	103	90	110			

Nitrite as N (1312-DI)

M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532749													
WG532749ICV	ICV	12/02/21 1:16	WI210904-1	.6089		.644	mg/L	106	90	110			
WG532749ICB	ICB	12/02/21 1:17				U	mg/L		-0.01	0.01			
WG532752													
WG532752LFB	LFB	12/02/21 2:25	WI211001-5	1		1.005	mg/L	101	90	110			
WG532516PBS	PBS	12/02/21 2:26				U	mg/L		-0.01	0.01			
L70073-01DUP	DUP	12/02/21 2:29			U	U	mg/L				0	20	RA
L70075-01AS	AS	12/02/21 2:31	WI211001-5	1	U	1.08	mg/L	108	90	110			

Nitrogen, ammonia (1312-DI)

M350.1 Auto Salicylate w/gas diffusion

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533754													
WG533754ICV	ICV	12/16/21 18:00	WI211206-3	12.024		12.353	mg/L	103	90	110			
WG533754ICB	ICB	12/16/21 18:01				U	mg/L		-0.05	0.05			
WG533769													
WG533769LFB	LFB	12/16/21 20:17	WI210901-5	10		10.249	mg/L	102	90	110			
WG532516PBS	PBS	12/16/21 20:19				U	mg/L		-0.05	0.05			
L70075-01AS	AS	12/16/21 20:22	WI210901-5	10	U	11.126	mg/L	111	90	110			M1

Phosphorus, ortho dissolved (1312-DI)

M365.1 - Automated Ascorbic Acid

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532748													
WG532748ICV	ICV	12/01/21 21:36	WI210401-4	.65228		.675	mg/L	103	90	110			
WG532748ICB	ICB	12/01/21 21:37				U	mg/L		-0.01	0.01			
WG532750													
WG532750LFB	LFB	12/01/21 22:17	WI211130-4	.5		.517	mg/L	103	90	110			
WG532516PBS	PBS	12/01/21 22:19				U	mg/L		-0.01	0.01			
L70073-01DUP	DUP	12/01/21 22:21			U	U	mg/L				0	20	RA
L70075-01AS	AS	12/01/21 22:23	WI211130-4	.5	U	.511	mg/L	102	90	110			

OURAYSM

ACZ Project ID: **L70075**

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.

Phosphorus, Total (1312-DI)

M365.1 - Auto Ascorbic Acid (digest)

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533562													
WG533562ICV	ICV	12/15/21 9:56	WI211018-4	.65228		.698	mg/L	107	90	110			
WG533562ICB	ICB	12/15/21 9:58				U	mg/L		-0.01	0.01			
WG532805PBS	PBS	12/15/21 9:59				U	mg/L		-0.01	0.01			
WG532805LFB	LFB	12/15/21 10:00	WI211130-4	.5		.461	mg/L	92	90	110			
L70073-01DUP	DUP	12/15/21 10:03			U	U	mg/L				0	20	M2 RA
L70075-01MS	MS	12/15/21 10:05	WI211130-4	.5	U	.401	mg/L	80	90	110			M2

Potassium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533089													
WG533089ICV	ICV	12/07/21 16:20	II211124-3	20		19.44	mg/L	97	90	110			
WG533089ICB	ICB	12/07/21 16:24				U	mg/L		-0.6	0.6			
WG532683PBS	PBS	12/07/21 16:48				U	mg/L		-0.6	0.6			
WG532683LFB1	LFB	12/07/21 16:51	II211118-4	99.96008		97.5	mg/L	98	80	120			
L70052-02MS	MS	12/07/21 17:03	II211118-4	99.96008	.73	97.52	mg/L	97	75	125			
L70052-02MSD	MSD	12/07/21 17:06	II211118-4	99.96008	.73	101.2	mg/L	101	75	125	4	20	
L70073-02DUP	DUP	12/07/21 17:17			2.38	2.29	mg/L				4	20	

Residue, Filterable (TDS) @180C (1312)

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533108													
WG533108PBW	PBW	12/07/21 16:35				U	mg/L		-20	20			
WG533108LCSW	LCSW	12/07/21 16:40	PCN64719	1000		984	mg/L	98	80	120			
WG532516PBS	PBS	12/07/21 16:45				U	mg/L		-40	40			
L70073-01DUP	DUP	12/07/21 16:55			58	56	mg/L				4	10	RA

Residue, Non-Filter (TSS) @180C (1312-DI) SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533123													
WG533123PBW	PBW	12/07/21 20:45				U	mg/L		-5	5			
WG533123LCSW	LCSW	12/07/21 20:47	PCN64721	100		90	mg/L	90	80	120			
WG532516PBS	PBS	12/07/21 20:49				U	mg/L		-15	15			
L70073-01DUP	DUP	12/07/21 20:53			U	U	mg/L				0	10	RA

Selenium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533205													
WG533205ICV	ICV	12/08/21 19:58	MS211013-2	.05		.04907	mg/L	98	90	110			
WG533205ICB	ICB	12/08/21 20:00				U	mg/L		-0.0003	0.0003			
WG532683PBS	PBS	12/08/21 20:30				U	mg/L		-0.0003	0.0003			
WG532683LFB2	LFB	12/08/21 20:31	MS211115-2	.05		.04874	mg/L	97	80	120			
L70073-02DUP	DUP	12/08/21 20:40			U	U	mg/L				0	20	RA
L70075-01MS	MS	12/08/21 20:43	MS211115-2	.05	U	.04954	mg/L	99	75	125			
L70075-01MSD	MSD	12/08/21 20:45	MS211115-2	.05	U	.05018	mg/L	100	75	125	1	20	

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ACZ Project ID: **L70075**

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.

Silica (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533089													
WG533089ICV	ICV	12/07/21 16:20	II211124-3	42.8		43.99	mg/L	103	90	110			
WG533089ICB	ICB	12/07/21 16:24				U	mg/L		-0.6	0.6			
WG532683PBS	PBS	12/07/21 16:48				U	mg/L		-0.6	0.6			
WG532683LFB1	LFB	12/07/21 16:51	II211118-4	21.404		21.32	mg/L	100	80	120			
L70052-02MS	MS	12/07/21 17:03	II211118-4	21.404	4.4	19.49	mg/L	71	75	125			M2
L70052-02MSD	MSD	12/07/21 17:06	II211118-4	21.404	4.4	19.52	mg/L	71	75	125	0	20	M2
L70073-02DUP	DUP	12/07/21 17:17			3	3.07	mg/L				2	20	

Silver (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533205													
WG533205ICV	ICV	12/08/21 19:58	MS211013-2	.02		.01847	mg/L	92	90	110			
WG533205ICB	ICB	12/08/21 20:00				U	mg/L		-0.0003	0.0003			
WG532683PBS	PBS	12/08/21 20:30				U	mg/L		-0.0003	0.0003			
WG532683LFB2	LFB	12/08/21 20:31	MS211115-2	.01		.00865	mg/L	87	80	120			
L70073-02DUP	DUP	12/08/21 20:40			U	U	mg/L				0	20	RA
L70075-01MS	MS	12/08/21 20:43	MS211115-2	.01	U	.0085	mg/L	85	75	125			
L70075-01MSD	MSD	12/08/21 20:45	MS211115-2	.01	U	.00863	mg/L	86	75	125	2	20	

Sodium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533089													
WG533089ICV	ICV	12/07/21 16:20	II211124-3	100		97.19	mg/L	97	90	110			
WG533089ICB	ICB	12/07/21 16:24				U	mg/L		-0.6	0.6			
WG532683PBS	PBS	12/07/21 16:48				U	mg/L		-0.6	0.6			
WG532683LFB1	LFB	12/07/21 16:51	II211118-4	100.0086		97.29	mg/L	97	80	120			
L70052-02MS	MS	12/07/21 17:03	II211118-4	100.0086	9.36	106.6	mg/L	97	75	125			
L70052-02MSD	MSD	12/07/21 17:06	II211118-4	100.0086	9.36	110	mg/L	101	75	125	3	20	
L70073-02DUP	DUP	12/07/21 17:17			.89	1.01	mg/L				13	20	RA

Strontium (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533089													
WG533089ICV	ICV	12/07/21 16:20	II211124-3	2		1.918	mg/L	96	90	110			
WG533089ICB	ICB	12/07/21 16:24				U	mg/L		-0.027	0.027			
WG532683PBS	PBS	12/07/21 16:48				U	mg/L		-0.027	0.027			
WG532683LFB1	LFB	12/07/21 16:51	II211118-4	.5005		.5253	mg/L	105	80	120			
L70052-02MS	MS	12/07/21 17:03	II211118-4	.5005	1.24	1.764	mg/L	105	75	125			
L70052-02MSD	MSD	12/07/21 17:06	II211118-4	.5005	1.24	1.776	mg/L	107	75	125	1	20	
L70073-02DUP	DUP	12/07/21 17:17			.0213	.0225	mg/L				5	20	RA

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ACZ Project ID: **L70075**

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.

Sulfate (1312-DI)

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG531660													
WG531660ICV	ICV	11/12/21 16:42	WI211108-9	51.15		51.15	mg/L	100	90	110			
WG531660ICB	ICB	11/12/21 16:59				U	mg/L		-0.4	0.4			
WG533276													
WG533276LFB	LFB	12/10/21 3:09	WI211112-6	30		31.64	mg/L	105	90	110			
WG532516PBS	PBS	12/10/21 3:27				U	mg/L		-0.4	0.4			
L70073-01DUP	DUP	12/10/21 4:03			63.2	78.69	mg/L				22	20	RD
L70075-01AS	AS	12/10/21 4:39	WI211112-6	30	6.73	39.43	mg/L	109	90	110			

Thallium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533205													
WG533205ICV	ICV	12/08/21 19:58	MS211013-2	.05		.05086	mg/L	102	90	110			
WG533205ICB	ICB	12/08/21 20:00				U	mg/L		-0.0003	0.0003			
WG532683PBS	PBS	12/08/21 20:30				U	mg/L		-0.0003	0.0003			
WG532683LFB2	LFB	12/08/21 20:31	MS211115-2	.05		.04996	mg/L	100	80	120			
L70073-02DUP	DUP	12/08/21 20:40			U	U	mg/L				0	20	RA
L70075-01MS	MS	12/08/21 20:43	MS211115-2	.05	U	.04902	mg/L	98	75	125			
L70075-01MSD	MSD	12/08/21 20:45	MS211115-2	.05	U	.04921	mg/L	98	75	125	0	20	

Tin (1312)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533089													
WG533089ICV	ICV	12/07/21 16:20	II211124-3	2		2.028	mg/L	101	90	110			
WG533089ICB	ICB	12/07/21 16:24				U	mg/L		-0.12	0.12			
WG532683PBS	PBS	12/07/21 16:48				U	mg/L		-0.12	0.12			
WG532683LFB1	LFB	12/07/21 16:51	II211118-4	1.002		.986	mg/L	98	80	120			
L70052-02MS	MS	12/07/21 17:03	II211118-4	1.002	U	.986	mg/L	98	75	125			
L70052-02MSD	MSD	12/07/21 17:06	II211118-4	1.002	U	1.001	mg/L	100	75	125	2	20	
L70073-02DUP	DUP	12/07/21 17:17			U	U	mg/L				0	20	RA

Uranium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533205													
WG533205ICV	ICV	12/08/21 19:58	MS211013-2	.05		.05199	mg/L	104	90	110			
WG533205ICB	ICB	12/08/21 20:00				U	mg/L		-0.0003	0.0003			
WG532683PBS	PBS	12/08/21 20:30				U	mg/L		-0.0003	0.0003			
WG532683LFB2	LFB	12/08/21 20:31	MS211115-2	.05		.05061	mg/L	101	80	120			
L70073-02DUP	DUP	12/08/21 20:40			U	U	mg/L				0	20	RA
L70075-01MS	MS	12/08/21 20:43	MS211115-2	.05	U	.05246	mg/L	105	75	125			
L70075-01MSD	MSD	12/08/21 20:45	MS211115-2	.05	U	.05219	mg/L	104	75	125	1	20	

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ACZ Project ID: **L70075**

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.

Vanadium (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533233													
WG533233ICV	ICV	12/09/21 11:57	MS211013-2	.05		.05082	mg/L	102	90	110			
WG533233ICB	ICB	12/09/21 11:58				U	mg/L		-0.0015	0.0015			
WG532683PBS	PBS	12/09/21 12:06				U	mg/L		-0.0015	0.0015			
WG532683LFB2	LFB	12/09/21 12:08	MS211115-2	.05005		.04609	mg/L	92	80	120			
L70073-02DUP	DUP	12/09/21 12:11			U	U	mg/L				0	20	RA
L70075-01MS	MS	12/09/21 12:16	MS211115-2	.05005	.001	.04836	mg/L	95	75	125			
L70075-01MSD	MSD	12/09/21 12:21	MS211115-2	.05005	.001	.04836	mg/L	95	75	125	0	20	

Zinc (1312)

M6020B ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533205													
WG533205ICV	ICV	12/08/21 19:58	MS211013-2	.05		.0508	mg/L	102	90	110			
WG533205ICB	ICB	12/08/21 20:00				U	mg/L		-0.018	0.018			
WG532683PBS	PBS	12/08/21 20:30				U	mg/L		-0.018	0.018			
WG532683LFB2	LFB	12/08/21 20:31	MS211115-2	.050075		.053	mg/L	106	80	120			
L70073-02DUP	DUP	12/08/21 20:40			.0972	.0989	mg/L				2	20	
L70075-01MS	MS	12/08/21 20:43	MS211115-2	.050075	U	.0527	mg/L	105	75	125			
L70075-01MSD	MSD	12/08/21 20:45	MS211115-2	.050075	U	.052	mg/L	104	75	125	1	20	

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ACZ Project ID: **L70075**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L70075-01	WG533089	Aluminum (1312)	M6010D ICP	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.
			M6010D ICP	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).
	WG533205	Antimony (1312)	M6020B ICP-MS	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).
				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).
		Arsenic (1312)	M6020B ICP-MS	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).
				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).
		Barium (1312)	M6020B ICP-MS	BB	Target analyte detected in calibration blank at or above acceptance limit. Sample value was > 10X the concentration in the calibration blank.
		Beryllium (1312)	M6020B ICP-MS	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).
	WG532819	Bicarbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG533089	Boron (1312)	M6010D ICP	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).
				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).
	WG533276	Bromide (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography	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).
	WG533089	Calcium (1312)	M6010D ICP	RD	For a solid matrix, the duplicate RPD (spike or matrix) exceeded the control limit, which is attributable to the non-homogeneity of the sample.
	WG533057	Carbon, total organic (TOC) (1312-DI)	SM5310B	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
				Q6	Sample was received above recommended temperature.
				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).
	WG532819	Carbonate as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG533276	Chloride (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
				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).
	WG533205	Chromium (1312)	M6020B ICP-MS	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).
	WG533166	Conductivity @25C (1312-DI)	SM2510B	RD	For a solid matrix, the duplicate RPD (spike or matrix) exceeded the control limit, which is attributable to the non-homogeneity of the sample.
	WG533205	Copper (1312)	M6020B ICP-MS	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).
				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).
	WG533381	Fluoride (1312 DI)	SM4500F-C	DJ	Sample dilution required due to insufficient sample.
			SM4500F-C	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated

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Ouray Silver Mines

ACZ Project ID: **L70075**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
					sample is too low for accurate evaluation (< 10x MDL).
	WG532819	Hydroxide as CaCO ₃	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG533089	Iron (1312)	M6010D ICP	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).
	WG533205	Lead (1312)	M6020B ICP-MS	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).
	WG533089	Lithium (1312)	M6010D ICP	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).
		Magnesium (1312)	M6010D ICP	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).
			M6010D ICP	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
	WG532976	Mercury (1312)	M7470A CVAA	Q6	Sample was received above recommended temperature.
			M7470A CVAA	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).
	WG533205	Molybdenum (1312)	M6020B ICP-MS	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).
		Nickel (1312)	M6020B ICP-MS	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).
	WG532752	Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	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).
		Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	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).
	WG533769	Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M350.1 Auto Salicylate w/gas diffusion	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M350.1 Auto Salicylate w/gas diffusion	Q6	Sample was received above recommended temperature.
			M350.1 Auto Salicylate w/gas diffusion	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).
	WG532750	Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic Acid	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M365.1 - Automated Ascorbic Acid	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).

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ACZ Project ID: **L70075**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
	WG533562	Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M365.1 - Auto Ascorbic Acid (digest)	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			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).
	WG533089	Potassium (1312)	M6010D ICP	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
	WG533108	Residue, Filterable (TDS) @180C (1312)	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).
	WG533123	Residue, Non-Filter (TSS) @180C (1312-DI)	SM2540D	DJ	Sample dilution required due to insufficient sample.
			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
	WG533205	Selenium (1312)	M6020B ICP-MS	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).
			M6020B ICP-MS	ZG	The ICP or ICP-MS Serial Dilution was not used for data validation because the sample concentration was less than 50 times the MDL.
	WG533089	Silica (1312)	M6010D ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG533205	Silver (1312)	M6020B ICP-MS	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).
	WG533089	Sodium (1312)	M6010D ICP	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).
		Strontium (1312)	M6010D ICP	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).
	WG533276	Sulfate (1312-DI)	M300.0 - Ion Chromatography	HD	Analysis is outside the intended scope of the method, which does not provide hold time information for soil extracts. No hold time is observed for collection to extraction. The referenced method hold time is observed for extraction-to-analysis.
			M300.0 - Ion Chromatography	RD	For a solid matrix, the duplicate RPD (spike or matrix) exceeded the control limit, which is attributable to the non-homogeneity of the sample.
	WG533205	Thallium (1312)	M6020B ICP-MS	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).
	WG533089	Tin (1312)	M6010D ICP	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).
	WG532819	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.
			SM2320B - Titration	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).
	WG533205	Uranium (1312)	M6020B ICP-MS	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).
	WG533233	Vanadium (1312)	M6020B ICP-MS	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).

Ouray Silver MinesACZ Project ID: **L70075**

Wet Chemistry

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Bicarbonate as CaCO ₃	SM2320B - Titration
Bromide (1312-DI)	M300.0 - Ion Chromatography
Carbonate as CaCO ₃	SM2320B - Titration
Chloride (1312-DI)	M300.0 - Ion Chromatography
Conductivity @25C (1312-DI)	SM2510B
Fluoride (1312 DI)	SM4500F-C
Hydroxide as CaCO ₃	SM2320B - Titration
Nitrate/Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction
Nitrite as N (1312-DI)	M353.2 - Automated Cadmium Reduction
Nitrogen, ammonia (1312-DI)	M350.1 Auto Salicylate w/gas diffusion
Phosphorus, ortho dissolved (1312-DI)	M365.1 - Automated Ascorbic Acid
Phosphorus, Total (1312-DI)	M365.1 - Auto Ascorbic Acid (digest)
Residue, Filterable (TDS) @180C (1312)	SM2540C
Residue, Non-Filter (TSS) @180C (1312-DI)	SM2540D
Sulfate (1312-DI)	M300.0 - Ion Chromatography
Total Alkalinity	SM2320B - Titration

Ouray Silver Mines

ACZ Project ID: L70075

Date Received: 11/22/2021 12:29

Received By:

Date Printed: 11/23/2021

Receipt Verification

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

Samples/Containers

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

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?
NA36491	10.2	NA	15	N/A

Was ice present in the shipment container(s)?

No - Wet or gel ice was not 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.

Ouray Silver Mines

ACZ Project ID: L70075

Date Received: 11/22/2021 12:29

Received By:

Date Printed: 11/23/2021

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).

December 15, 2021

Report to:

Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Environmental, Accounts Payable

Bill to:

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

Project ID:

ACZ Project ID: L70193

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on December 02, 2021. This project has been assigned to ACZ's project number, L70193. 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 L70193. 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 January 14, 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: OF002A

ACZ Sample ID: **L70193-01**

Date Sampled: 12/01/21 11:15

Date Received: 12/02/21

Sample Matrix: Waste Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002- 31.5.31 (2009)								12/05/21 9:05	ssr
Cyanide, WAD	SM4500-CN I- distillation								12/10/21 10:42	bls
Total Hot Plate Digestion	M200.2 ICP-MS								12/08/21 14:57	bsu
Total Recoverable Digestion	M200.2 ICP								12/07/21 16:23	jlw

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, potentially dissolved	M200.8 ICP-MS	1	0.000199	B		mg/L	0.00005	0.00025	12/09/21 15:56	mfm
Copper, potentially dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	12/09/21 15:56	mfm
Iron, total recoverable	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	12/08/21 16:20	kja
Lead, potentially dissolved	M200.8 ICP-MS	1	0.00097			mg/L	0.0001	0.0005	12/09/21 15:56	mfm
Lead, total	M200.8 ICP-MS	1	0.00092			mg/L	0.0001	0.0005	12/10/21 16:47	bsu
Manganese, potentially dissolved	M200.8 ICP-MS	1	0.256			mg/L	0.0004	0.002	12/09/21 15:56	mfm
Mercury, total	M245.1 CVAA	1	<0.0002	U	*	mg/L	0.0002	0.001	12/06/21 14:46	mlh
Silver, potentially dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	12/09/21 15:56	mfm
Zinc, potentially dissolved	M200.8 ICP-MS	1	0.109			mg/L	0.006	0.015	12/09/21 15:56	mfm

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	12/10/21 19:24	mjj1
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	12/07/21 0:00	jck
pH measured at		1	22.7			C	0.1	0.1	12/07/21 0:00	jck
Residue, Non- Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	12/07/21 13:09	anc



Report Header Explanations

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

QC Sample Types

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

OURAYSM

ACZ Project ID: **L70193**

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.

Cadmium, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533277													
WG533277ICV	ICV	12/09/21 14:55	MS211013-2	.05		.052158	mg/L	104	90	110			
WG533277ICB	ICB	12/09/21 14:57				U	mg/L		-0.00011	0.00011			
WG533277LFB	LFB	12/09/21 14:59	MS211115-2	.05005		.051102	mg/L	102	85	115			
WG532152PBW	PBW	12/09/21 15:01				U	mg/L		-0.00015	0.00015			
WG532923PBW	PBW	12/09/21 15:06				U	mg/L		-0.00015	0.00015			
WG532932PBW	PBW	12/09/21 15:51				U	mg/L		-0.00015	0.00015			
L70236-01AS	AS	12/09/21 16:00	MS211115-2	.05005	U	.056839	mg/L	114	70	130			

Copper, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533277													
WG533277ICV	ICV	12/09/21 14:55	MS211013-2	.05		.04966	mg/L	99	90	110			
WG533277ICB	ICB	12/09/21 14:57				U	mg/L		-0.00176	0.00176			
WG533277LFB	LFB	12/09/21 14:59	MS211115-2	.05		.04788	mg/L	96	85	115			
WG532152PBW	PBW	12/09/21 15:01				U	mg/L		-0.0024	0.0024			
WG532923PBW	PBW	12/09/21 15:06				U	mg/L		-0.0024	0.0024			
WG532932PBW	PBW	12/09/21 15:51				U	mg/L		-0.0024	0.0024			
L70236-01AS	AS	12/09/21 16:00	MS211115-2	.05	.00979	.04942	mg/L	79	70	130			

Cyanide, WAD

SM4500-CN I,E-Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533368													
WG533368ICV	ICV	12/10/21 18:35	WI211209-3	.3003		.3235	mg/L	108	90	110			
WG533368ICB	ICB	12/10/21 18:36				U	mg/L		-0.003	0.003			
WG533369													
WG533328LRB	LRB	12/10/21 19:21				U	mg/L		-0.003	0.003			
WG533328LFB	LFB	12/10/21 19:22	WI211208-5	.2002		.2109	mg/L	105	90	110			
L70228-01DUP	DUP	12/10/21 19:32			.0108	.0089	mg/L				19	20	RA
L70229-01LFM	LFM	12/10/21 19:35	WI211208-5	.2002	.0122	.2038	mg/L	96	90	110			

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533160													
WG533160ICV	ICV	12/08/21 14:38	II211118-1	2		1.969	mg/L	98	95	105			
WG533160ICB	ICB	12/08/21 14:44				U	mg/L		-0.18	0.18			
WG533050LRB	LRB	12/08/21 14:56				U	mg/L		-0.132	0.132			
WG533050LFB	LFB	12/08/21 14:59	II211118-4	1.0001		.999	mg/L	100	85	115			
L70186-02LFM	LFM	12/08/21 16:14	II211118-4	1.0001	U	.97	mg/L	97	70	130			
L70186-02LFMD	LFMD	12/08/21 16:17	II211118-4	1.0001	U	.986	mg/L	99	70	130	2	20	

OURAYSM

ACZ Project ID: **L70193**

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.

Lead, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533277													
WG533277ICV	ICV	12/09/21 14:55	MS211013-2	.05		.05236	mg/L	105	90	110			
WG533277ICB	ICB	12/09/21 14:57				U	mg/L		-0.00022	0.00022			
WG533277LFB	LFB	12/09/21 14:59	MS211115-2	.05005		.05179	mg/L	103	85	115			
WG532152PBW	PBW	12/09/21 15:01				U	mg/L		-0.0003	0.0003			
WG532923PBW	PBW	12/09/21 15:06				U	mg/L		-0.0003	0.0003			
WG532932PBW	PBW	12/09/21 15:51				.00011	mg/L		-0.0003	0.0003			
L70236-01AS	AS	12/09/21 16:00	MS211115-2	.05005	.00031	.05602	mg/L	111	70	130			

Lead, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533347													
WG533347ICV	ICV	12/10/21 16:03	MS211013-2	.05		.05003	mg/L	100	90	110			
WG533347ICB	ICB	12/10/21 16:04				U	mg/L		-0.0003	0.0003			
WG533128LRB	LRB	12/10/21 16:06				U	mg/L		-0.00022	0.00022			
WG533128LFB1	LFB	12/10/21 16:08	MS211115-2	.05005		.04915	mg/L	98	85	115			
L70167-01LFM	LFM	12/10/21 16:11	MS211115-2	.05005	U	.04975	mg/L	99	70	130			
L70167-01LFMD	LFMD	12/10/21 16:12	MS211115-2	.05005	U	.04771	mg/L	95	70	130	4	20	

Manganese, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533277													
WG533277ICV	ICV	12/09/21 14:55	MS211013-2	.05		.05257	mg/L	105	90	110			
WG533277ICB	ICB	12/09/21 14:57				U	mg/L		-0.00088	0.00088			
WG533277LFB	LFB	12/09/21 14:59	MS211115-2	.0498		.05223	mg/L	105	85	115			
WG532152PBW	PBW	12/09/21 15:01				U	mg/L		-0.0012	0.0012			
WG532923PBW	PBW	12/09/21 15:06				U	mg/L		-0.0012	0.0012			
WG532932PBW	PBW	12/09/21 15:51				U	mg/L		-0.0012	0.0012			
L70236-01AS	AS	12/09/21 16:00	MS211115-2	.0498	.0157	.06916	mg/L	107	70	130			

Mercury, total

M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG532972													
WG532972ICV	ICV	12/06/21 14:30	HG211115-3	.00501		.00508	mg/L	101	95	105			
WG532972ICB	ICB	12/06/21 14:31				U	mg/L		-0.0002	0.0002			
WG532972LRB	LRB	12/06/21 14:32				U	mg/L		-0.00044	0.00044			
WG532972LFB	LFB	12/06/21 14:33	HG211130-4	.002002		.00218	mg/L	109	85	115			
L70165-01LFM	LFM	12/06/21 14:35	HG211130-4	.002002	U	.00209	mg/L	104	85	115			
L70165-01LFMD	LFMD	12/06/21 14:36	HG211130-4	.002002	U	.00242	mg/L	121	85	115	15	20	MA

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533037													
WG533037LCSW1	LCSW	12/06/21 19:47	PCN62948	6		6.1	units	102	5.9	6.1			
WG533037LCSW4	LCSW	12/06/21 22:51	PCN62948	6		6.1	units	102	5.9	6.1			
WG533037LCSW7	LCSW	12/07/21 2:11	PCN62948	6		6.1	units	102	5.9	6.1			
L70199-02DUP	DUP	12/07/21 4:41			8.1	8.2	units				1	20	
WG533037LCSW10	LCSW	12/07/21 6:11	PCN62948	6		6.1	units	102	5.9	6.1			
WG533037LCSW13	LCSW	12/07/21 9:47	PCN62948	6		6.1	units	102	5.9	6.1			

OURAYSM

ACZ Project ID: **L70193**

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.

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

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533080													
WG533080PBW	PBW	12/07/21 12:33				U	mg/L		-2	2			
WG533080LCSW	LCSW	12/07/21 12:35	PCN64719	100		92	mg/L	92	80	120			
L70199-07DUP	DUP	12/07/21 13:33			11	9	mg/L				20	10	RA

Silver, potentially dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533277													
WG533277ICV	ICV	12/09/21 14:55	MS211013-2	.02		.01938	mg/L	97	90	110			
WG533277ICB	ICB	12/09/21 14:57				U	mg/L		-0.00022	0.00022			
WG533277LFB	LFB	12/09/21 14:59	MS211115-2	.01		.00944	mg/L	94	85	115			
WG532152PBW	PBW	12/09/21 15:01				U	mg/L		-0.0003	0.0003			
WG532923PBW	PBW	12/09/21 15:06				U	mg/L		-0.0003	0.0003			
WG532932PBW	PBW	12/09/21 15:51				U	mg/L		-0.0003	0.0003			
L70236-01AS	AS	12/09/21 16:00	MS211115-2	.01	U	.00897	mg/L	90	70	130			

Zinc, potentially dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533277													
WG533277ICV	ICV	12/09/21 14:55	MS211013-2	.05		.0505	mg/L	101	90	110			
WG533277ICB	ICB	12/09/21 14:57				U	mg/L		-0.0132	0.0132			
WG533277LFB	LFB	12/09/21 14:59	MS211115-2	.050075		.0537	mg/L	107	85	115			
WG532152PBW	PBW	12/09/21 15:01				U	mg/L		-0.018	0.018			
WG532923PBW	PBW	12/09/21 15:06				U	mg/L		-0.018	0.018			
WG532932PBW	PBW	12/09/21 15:51				U	mg/L		-0.018	0.018			
L70236-01AS	AS	12/09/21 16:00	MS211115-2	.050075	.0369	.0943	mg/L	115	70	130			

Ouray Silver MinesACZ Project ID: **L70193**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L70193-01	WG533369	Cyanide, WAD	SM4500-CN I,E-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).
	WG532972	Mercury, total	M245.1 CVAA	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG533080	Residue, Non-Filterable (TSS) @105C	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

Ouray Silver Mines

ACZ Project ID: **L70193**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L70193

Date Received: 12/02/2021 11:56

Received By:

Date Printed: 12/3/2021

Receipt Verification

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

Samples/Containers

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

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?
-----	-----	-----	-----	-----
4511	5	<=6.0	15	Yes

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.

Ouray Silver Mines

ACZ Project ID: L70193

Date Received: 12/02/2021 11:56

Received By:

Date Printed: 12/3/2021

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).

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

Report to:

Name:	Briana Greer
Company:	Solid Solution Geosciences LLC
E-mail:	briana@solidsolutiongeosciences.com.com

Address:	112 Village Square W Suite 205.
	Ridgway CO, 81432
Telephone:	307-760-8838

Copy of Report to:

Name:	Environmental
Company:	Ouray Silver Mines Inc.

E-mail: environmental@ouraysilvermines.com
Telephone: 970-325-9830

Invoice to:

Name:	Ashlee Briggs
Company:	Ouray Silver Mines Inc.
E-mail:	abriggs@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	☒
NO	☐

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	☒

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

Sampler's Name: Joshua A. Moore **Sampler's Site Information** **State** CO **Zip code** 81427 **Time Zone** Mtn

***Sampler's 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

ANALYSES REQUESTED (attach list or use quote number)

[illegible]

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

<i>Salma Moore</i>	12/1/21 13:30	<i>MM</i>	12/2/21 11:56

December 15, 2021

Report to:

Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Environmental, Accounts Payable

Bill to:

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

Project ID: SPLP-Waste-Aggregate
ACZ Project ID: L70274

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on December 06, 2021. This project has been assigned to ACZ's project number, L70274. 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 L70274. 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 January 14, 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID: SPLP-Waste-Aggregate

Sample ID: RT20211005

ACZ Sample ID: **L70274-01**

Date Sampled: 10/05/21 15:30

Date Received: 12/06/21

Sample Matrix: Soil

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Hot Plate Digestion	M3010A ICP								12/10/21 13:23	aeH

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic (TCLP)	M6010D ICP	1	0.070	B	*	mg/L	0.04	0.2	12/13/21 10:34	jlw
Barium (TCLP)	M6010D ICP	1	0.898		*	mg/L	0.007	0.035	12/13/21 10:34	jlw
Cadmium (TCLP)	M6010D ICP	1	<0.008	U	*	mg/L	0.008	0.025	12/13/21 10:34	jlw
Chromium (TCLP)	M6010D ICP	1	<0.02	U	*	mg/L	0.02	0.05	12/13/21 10:34	jlw
Lead (TCLP)	M6010D ICP	1	0.979			mg/L	0.03	0.15	12/13/21 10:34	jlw
Mercury (TCLP)	M7470A CVAA	1	<0.0002	UH	*	mg/L	0.0002	0.001	12/13/21 12:16	mlh
Selenium (TCLP)	M6010D ICP	1	<0.05	U	*	mg/L	0.05	0.25	12/13/21 10:34	jlw
Silver (TCLP)	M6010D ICP	1	<0.01	U	*	mg/L	0.01	0.025	12/13/21 10:34	jlw

Soil Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
pH, Corrosivity	M9045D/M9040C									
pH		1	7.9			units	0.1	0.1	12/08/21 0:00	mlp
Temperature		1	21.0			C	0.1	0.1	12/08/21 0:00	mlp

Soil Preparation

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
TCLP Metal Extraction	M1311								12/08/21 22:00	mlp



Report Header Explanations

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

QC Sample Types

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

OURAYSM

ACZ Project ID: **L70274**

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.

Arsenic (TCLP)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533411													
WG533411ICV	ICV	12/13/21 9:58	II211124-3	4		3.988	mg/L	100	90	110			
WG533411ICB	ICB	12/13/21 10:02				U	mg/L		-0.12	0.12			
WG533192PBS	PBS	12/13/21 10:26				U	mg/L		-0.12	0.12			
WG533192LFB	LFB	12/13/21 10:30	IITCLPSPIKE	1.001		1.13	mg/L	113	80	120			
L70274-01MS	MS	12/13/21 10:42	IITCLPSPIKE	1.001	.07	1.141	mg/L	107	75	125			
L70274-01MSD	MSD	12/13/21 10:46	IITCLPSPIKE	1.001	.07	1.107	mg/L	104	75	125	3	20	
L70274-01DUP	DUP	12/13/21 10:50			.07	.045	mg/L				43	20	RA

Barium (TCLP)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533411													
WG533411ICV	ICV	12/13/21 9:58	II211124-3	2		1.97	mg/L	99	90	110			
WG533411ICB	ICB	12/13/21 10:02				U	mg/L		-0.021	0.021			
WG533192PBS	PBS	12/13/21 10:26				.0229	mg/L		-0.021	0.021			BA
WG533192LFB	LFB	12/13/21 10:30	IITCLPSPIKE	20.5		20.67	mg/L	101	80	120			
L70274-01MS	MS	12/13/21 10:42	IITCLPSPIKE	20.5	.898	21.64	mg/L	101	75	125			
L70274-01MSD	MSD	12/13/21 10:46	IITCLPSPIKE	20.5	.898	21.34	mg/L	100	75	125	1	20	
L70274-01DUP	DUP	12/13/21 10:50			.898	.914	mg/L				2	20	

Cadmium (TCLP)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533411													
WG533411ICV	ICV	12/13/21 9:58	II211124-3	2		1.945	mg/L	97	90	110			
WG533411ICB	ICB	12/13/21 10:02				U	mg/L		-0.024	0.024			
WG533192PBS	PBS	12/13/21 10:26				.008	mg/L		-0.024	0.024			
WG533192LFB	LFB	12/13/21 10:30	IITCLPSPIKE	.501		.5261	mg/L	105	80	120			
L70274-01MS	MS	12/13/21 10:42	IITCLPSPIKE	.501	U	.512	mg/L	102	75	125			
L70274-01MSD	MSD	12/13/21 10:46	IITCLPSPIKE	.501	U	.4978	mg/L	99	75	125	3	20	
L70274-01DUP	DUP	12/13/21 10:50			U	.0083	mg/L				200	20	RA

Chromium (TCLP)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533411													
WG533411ICV	ICV	12/13/21 9:58	II211124-3	2		1.988	mg/L	99	90	110			
WG533411ICB	ICB	12/13/21 10:02				U	mg/L		-0.06	0.06			
WG533192PBS	PBS	12/13/21 10:26				U	mg/L		-0.06	0.06			
WG533192LFB	LFB	12/13/21 10:30	IITCLPSPIKE	.501		.533	mg/L	106	80	120			
L70274-01MS	MS	12/13/21 10:42	IITCLPSPIKE	.501	U	.524	mg/L	105	75	125			
L70274-01MSD	MSD	12/13/21 10:46	IITCLPSPIKE	.501	U	.513	mg/L	102	75	125	2	20	
L70274-01DUP	DUP	12/13/21 10:50			U	U	mg/L				0	20	RA

OURAYSM

ACZ Project ID: **L70274**

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.

Lead (TCLP)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533411													
WG533411ICV	ICV	12/13/21 9:58	II211124-3	4		3.952	mg/L	99	90	110			
WG533411ICB	ICB	12/13/21 10:02				U	mg/L		-0.09	0.09			
WG533192PBS	PBS	12/13/21 10:26				U	mg/L		-0.09	0.09			
WG533192LFB	LFB	12/13/21 10:30	IITCLPSPIKE	1.001		1.078	mg/L	108	80	120			
L70274-01MS	MS	12/13/21 10:42	IITCLPSPIKE	1.001	.979	2.008	mg/L	103	75	125			
L70274-01MSD	MSD	12/13/21 10:46	IITCLPSPIKE	1.001	.979	1.961	mg/L	98	75	125	2	20	
L70274-01DUP	DUP	12/13/21 10:50			.979	1.07	mg/L				9	20	

Mercury (TCLP)

M7470A CVA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533407													
WG533407ICV1	ICV	12/13/21 12:11	HG211213-3	.00501		.0052	mg/L	104	90	110			
WG533407ICB	ICB	12/13/21 12:11				U	mg/L		-0.0006	0.0006			
WG533407PBW	PBW	12/13/21 12:13				U	mg/L		-0.00044	0.00044			
WG533192PBS	PBS	12/13/21 12:14				U	mg/L		-0.0006	0.0006			
WG533192LFB	LFB	12/13/21 12:15	HG211213-6	.002002		.00217	mg/L	108	85	115			
L70274-01MS	MS	12/13/21 12:17	HG211213-6	.002002	U	.00215	mg/L	107	85	115			
L70274-01MSD	MSD	12/13/21 12:18	HG211213-6	.002002	U	.00217	mg/L	108	85	115	1	20	
L70274-01DUP	DUP	12/13/21 12:19			U	U	mg/L				0	20	RA

Ph

M9045D/M9040C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533165													
WG533165ICV	ICV	12/08/21 13:43	PCN63115	4.01		4	units	100	3.9	4.1			
L70076-01DUP	DUP	12/08/21 14:12			7.9	8	units				1	20	

Selenium (TCLP)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533411													
WG533411ICV	ICV	12/13/21 9:58	II211124-3	4		3.992	mg/L	100	90	110			
WG533411ICB	ICB	12/13/21 10:02				U	mg/L		-0.15	0.15			
WG533192PBS	PBS	12/13/21 10:26				U	mg/L		-0.15	0.15			
WG533192LFB	LFB	12/13/21 10:30	IITCLPSPIKE	1.001		1.11	mg/L	111	80	120			
L70274-01MS	MS	12/13/21 10:42	IITCLPSPIKE	1.001	U	1.165	mg/L	116	75	125			
L70274-01MSD	MSD	12/13/21 10:46	IITCLPSPIKE	1.001	U	1.119	mg/L	112	75	125	4	20	
L70274-01DUP	DUP	12/13/21 10:50			U	U	mg/L				0	20	RA

Silver (TCLP)

M6010D ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533411													
WG533411ICV	ICV	12/13/21 9:58	II211124-3	1		.988	mg/L	99	90	110			
WG533411ICB	ICB	12/13/21 10:02				U	mg/L		-0.03	0.03			
WG533192PBS	PBS	12/13/21 10:26				U	mg/L		-0.03	0.03			
WG533192LFB	LFB	12/13/21 10:30	IITCLPSPIKE	.501		.521	mg/L	104	80	120			
L70274-01MS	MS	12/13/21 10:42	IITCLPSPIKE	.501	U	.532	mg/L	106	75	125			
L70274-01MSD	MSD	12/13/21 10:46	IITCLPSPIKE	.501	U	.519	mg/L	104	75	125	2	20	
L70274-01DUP	DUP	12/13/21 10:50			U	U	mg/L				0	20	RA

Ouray Silver Mines

ACZ Project ID: **L70274**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L70274-01	WG533411	Arsenic (TCLP)	M6010D ICP	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).
		Barium (TCLP)	M6010D ICP	BA	Target analyte detected in prep / method blank at or above acceptance limit. Sample value is > 20X the concentration in the method blank.
		Cadmium (TCLP)	M6010D ICP	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).
		Chromium (TCLP)	M6010D ICP	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).
	WG533407	Mercury (TCLP)	M7470A CVAA	H3	Sample was received and analyzed past holding time.
			M7470A CVAA	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).
	WG533411	Selenium (TCLP)	M6010D ICP	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).
		Silver (TCLP)	M6010D ICP	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).

Ouray Silver Mines

ACZ Project ID: **L70274**

No certification qualifiers associated with this analysis

Ouray Silver Mines
SPLP-Waste-Aggregate

ACZ Project ID: L70274
Date Received: 12/06/2021 11:29
Received By:
Date Printed: 12/7/2021

Receipt Verification

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

Samples/Containers

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

Some parameters were received past hold time.

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?
UNKNOWN	-----	NA	-----	-----

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.

Ouray Silver Mines
SPLP-Waste-Aggregate

ACZ Project ID: L70274

Date Received: 12/06/2021 11:29

Received By:

Date Printed: 12/7/2021

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).

December 29, 2021

Report to:
Briana Greer
Ouray Silver Mines
105 Meadow Estates Dr.

Ridgway, CO 81432

cc: Briana Greer, Accounts Payable, Joshua Moore

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

Project ID:
ACZ Project ID: L70367

Briana Greer:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on December 09, 2021. This project has been assigned to ACZ's project number, L70367. Please reference this number in all future inquiries.

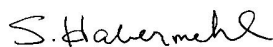
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L70367. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 January 28, 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.



Scott Habermehl has reviewed
and approved this report.



Ouray Silver Mines

Project ID:

Sample ID: OF002A

ACZ Sample ID: **L70367-01**

Date Sampled: 12/08/21 13:00

Date Received: 12/09/21

Sample Matrix: Waste Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002- 31.5.31 (2009)								12/12/21 10:10	ssr
Cyanide, WAD	SM4500-CN I- distillation								12/15/21 20:22	mjj1
Total Hot Plate Digestion	M200.2 ICP-MS								12/15/21 16:25	scp
Total Recoverable Digestion	M200.2 ICP								12/14/21 15:18	aeh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cadmium, potentially dissolved	M200.8 ICP-MS	1	0.000139	B		mg/L	0.00005	0.00025	12/13/21 22:39	bsu
Copper, potentially dissolved	M200.8 ICP-MS	1	<0.0008	U		mg/L	0.0008	0.002	12/15/21 11:44	mfm
Iron, total recoverable	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	12/15/21 15:51	kja
Lead, potentially dissolved	M200.8 ICP-MS	1	0.00071			mg/L	0.0001	0.0005	12/13/21 22:39	bsu
Lead, total	M200.8 ICP-MS	1	0.00084			mg/L	0.0001	0.0005	12/20/21 16:59	mfm
Manganese, potentially dissolved	M200.8 ICP-MS	1	0.215			mg/L	0.0004	0.002	12/13/21 22:39	bsu
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	12/14/21 18:48	mlh
Silver, potentially dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	12/13/21 22:39	bsu
Zinc, potentially dissolved	M200.8 ICP-MS	1	0.0965			mg/L	0.006	0.015	12/13/21 22:39	bsu

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, WAD	SM4500-CN I,E- Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	12/17/21 17:07	mjj1
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	12/17/21 0:00	emk
pH measured at		1	22.6			C	0.1	0.1	12/17/21 0:00	emk
Residue, Non- Filterable (TSS) @105C	SM2540D	1	<5	U	*	mg/L	5	20	12/13/21 16:03	jck

Report Header Explanations

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

QC Sample Types

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

OURAYSM

ACZ Project ID: **L70367**

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.

Cadmium, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533474													
WG533474ICV	ICV	12/13/21 22:12	MS211013-2	.05		.05228	mg/L	105	90	110			
WG533474ICB	ICB	12/13/21 22:13				U	mg/L		-0.00011	0.00011			
WG533474LFB	LFB	12/13/21 22:15	MS211115-2	.05005		.047594	mg/L	95	85	115			
WG533394PBW	PBW	12/13/21 22:17				U	mg/L		-0.00015	0.00015			
L70378-01AS	AS	12/13/21 22:42	MS211115-2	.05005	U	.051275	mg/L	102	70	130			
L70378-01ASD	ASD	12/13/21 22:44	MS211115-2	.05005	U	.050569	mg/L	101	70	130	1	20	

Copper, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533581													
WG533581ICV	ICV	12/15/21 11:24	MS211013-2	.05		.05209	mg/L	104	90	110			
WG533581ICB	ICB	12/15/21 11:26				U	mg/L		-0.00176	0.00176			
WG533581LFB	LFB	12/15/21 11:27	MS211115-2	.05		.04814	mg/L	96	85	115			
WG533394PBW	PBW	12/15/21 11:29				U	mg/L		-0.0024	0.0024			
L70364-02AS	AS	12/15/21 11:38	MS211115-2	.05	.00501	.04758	mg/L	85	70	130			
L70364-02ASD	ASD	12/15/21 11:40	MS211115-2	.05	.00501	.04507	mg/L	80	70	130	5	20	

Cyanide, WAD

SM4500-CN I,E-Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533839													
WG533839ICV	ICV	12/17/21 16:07	WI211209-3	.3003		.3068	mg/L	102	90	110			
WG533839ICB	ICB	12/17/21 16:08				U	mg/L		-0.003	0.003			
WG533841													
WG533555LRB	LRB	12/17/21 16:44				U	mg/L		-0.003	0.003			
WG533555LFB	LFB	12/17/21 16:45	WI211208-5	.2002		.2039	mg/L	102	90	110			
L70351-01DUP	DUP	12/17/21 16:58			U	U	mg/L				0	20	RA
L70353-03LFM	LFM	12/17/21 17:00	WI211208-5	.2002	U	.2045	mg/L	102	90	110			

Iron, total recoverable

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533613													
WG533613ICV	ICV	12/15/21 15:05	II211214-2	2		1.97	mg/L	99	95	105			
WG533613ICB	ICB	12/15/21 15:11				U	mg/L		-0.18	0.18			
WG533499LRB	LRB	12/15/21 15:23				U	mg/L		-0.132	0.132			
WG533499LFB	LFB	12/15/21 15:26	II211118-4	1.0001		.869	mg/L	87	85	115			
L70367-01LFM	LFM	12/15/21 16:00	II211118-4	1.0001	U	.98	mg/L	98	70	130			
L70367-01LFMD	LFMD	12/15/21 16:03	II211118-4	1.0001	U	1.009	mg/L	101	70	130	3	20	

Lead, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533474													
WG533474ICV	ICV	12/13/21 22:12	MS211013-2	.05		.05203	mg/L	104	90	110			
WG533474ICB	ICB	12/13/21 22:13				U	mg/L		-0.00022	0.00022			
WG533474LFB	LFB	12/13/21 22:15	MS211115-2	.05005		.04773	mg/L	95	85	115			
WG533394PBW	PBW	12/13/21 22:17				U	mg/L		-0.0003	0.0003			
L70378-01AS	AS	12/13/21 22:42	MS211115-2	.05005	.00029	.05239	mg/L	104	70	130			
L70378-01ASD	ASD	12/13/21 22:44	MS211115-2	.05005	.00029	.05295	mg/L	105	70	130	1	20	

OURAYSM

ACZ Project ID: **L70367**

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.

Lead, total

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533948													
WG533948ICV	ICV	12/20/21 16:50	MS211013-2	.05		.05275	mg/L	106	90	110			
WG533948ICB	ICB	12/20/21 16:53				U	mg/L		-0.0003	0.0003			
WG533621LRB	LRB	12/20/21 16:55				U	mg/L		-0.00022	0.00022			
WG533621LFB	LFB	12/20/21 16:57	MS211115-2	.05005		.04835	mg/L	97	85	115			
L70372-01LFM	LFM	12/20/21 17:03	MS211115-2	.05005	.00142	.05275	mg/L	103	70	130			
L70372-01LFMD	LFMD	12/20/21 17:05	MS211115-2	.05005	.00142	.05242	mg/L	102	70	130	1	20	

Manganese, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533474													
WG533474ICV	ICV	12/13/21 22:12	MS211013-2	.05		.0531	mg/L	106	90	110			
WG533474ICB	ICB	12/13/21 22:13				U	mg/L		-0.00088	0.00088			
WG533474LFB	LFB	12/13/21 22:15	MS211115-2	.0498		.04948	mg/L	99	85	115			
WG533394PBW	PBW	12/13/21 22:17				U	mg/L		-0.0012	0.0012			
L70378-01AS	AS	12/13/21 22:42	MS211115-2	.0498	.00893	.06086	mg/L	104	70	130			
L70378-01ASD	ASD	12/13/21 22:44	MS211115-2	.0498	.00893	.0615	mg/L	106	70	130	1	20	

Mercury, total

M245.1 CVA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533524													
WG533524ICV1	ICV	12/14/21 17:30	HG211213-3	.00501		.00515	mg/L	103	95	105			
WG533524ICB	ICB	12/14/21 17:31				U	mg/L		-0.0002	0.0002			
WG533528													
WG533528LRB	LRB	12/14/21 18:40				U	mg/L		-0.00044	0.00044			
WG533528LFB	LFB	12/14/21 18:41	HG211213-6	.002002		.00199	mg/L	99	85	115			
L70277-01LFM	LFM	12/14/21 18:43	HG211213-6	.002002	.0026	.00457	mg/L	98	85	115			
L70277-01LFMD	LFMD	12/14/21 18:44	HG211213-6	.002002	.0026	.00459	mg/L	99	85	115	0	20	

pH (lab)

SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533738													
WG533738LCSW1	LCSW	12/16/21 17:16	PCN62948	6		6.1	units	102	5.9	6.1			
WG533738LCSW4	LCSW	12/16/21 20:30	PCN62948	6		6.1	units	102	5.9	6.1			
WG533738LCSW10	LCSW	12/17/21 4:38	PCN62948	6		6.1	units	102	5.9	6.1			
L70370-02DUP	DUP	12/17/21 6:51			8	8	units				0	20	
WG533738LCSW13	LCSW	12/17/21 8:36	PCN62948	6		6.1	units	102	5.9	6.1			

Residue, Non-Filterable (TSS) @105C

SM2540D

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533468													
WG533468PBW	PBW	12/13/21 15:55				U	mg/L		-5	5			
WG533468LCSW	LCSW	12/13/21 15:57	PCN64712	100		96	mg/L	96	80	120			
L70408-01DUP	DUP	12/13/21 16:21			U	U	mg/L				0	10	RA

OURAYSM

ACZ Project ID: **L70367**

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.

Silver, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533474													
WG533474ICV	ICV	12/13/21 22:12	MS211013-2	.02		.01965	mg/L	98	90	110			
WG533474ICB	ICB	12/13/21 22:13				U	mg/L		-0.00022	0.00022			
WG533474LFB	LFB	12/13/21 22:15	MS211115-2	.01		.00857	mg/L	86	85	115			
WG533394PBW	PBW	12/13/21 22:17				U	mg/L		-0.0003	0.0003			
L70378-01AS	AS	12/13/21 22:42	MS211115-2	.01	U	.00914	mg/L	91	70	130			
L70378-01ASD	ASD	12/13/21 22:44	MS211115-2	.01	U	.00925	mg/L	93	70	130	1	20	

Zinc, potentially dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG533474													
WG533474ICV	ICV	12/13/21 22:12	MS211013-2	.05		.0526	mg/L	105	90	110			
WG533474ICB	ICB	12/13/21 22:13				U	mg/L		-0.0132	0.0132			
WG533474LFB	LFB	12/13/21 22:15	MS211115-2	.050075		.052	mg/L	104	85	115			
WG533394PBW	PBW	12/13/21 22:17				U	mg/L		-0.018	0.018			
L70378-01AS	AS	12/13/21 22:42	MS211115-2	.050075	.0467	.1004	mg/L	107	70	130			
L70378-01ASD	ASD	12/13/21 22:44	MS211115-2	.050075	.0467	.101	mg/L	108	70	130	1	20	

Ouray Silver Mines

ACZ Project ID: **L70367**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L70367-01	WG533841	Cyanide, WAD	SM4500-CN I,E-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).
	WG533468	Residue, Non-Filterable (TSS) @105C	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

Ouray Silver Mines

ACZ Project ID: **L70367**

No certification qualifiers associated with this analysis

Ouray Silver Mines

ACZ Project ID: L70367

Date Received: 12/09/2021 11:14

Received By:

Date Printed: 12/10/2021

Receipt Verification

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

Samples/Containers

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

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?
NA36577	5.9	<=6.0	15	Yes

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.

Ouray Silver Mines

ACZ Project ID: L70367

Date Received: 12/09/2021 11:14

Received By:

Date Printed: 12/10/2021

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).

**Laboratories, Inc.**

L70367

CHAIN of CUSTODY

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

Report to:

Name: Briana Greer
Company: Solid Solution Geosciences LLC
E-mail: briana@solidsolutiongeosciences.com.com

Address: 112 Village Square W Suite 205.
Ridgway CO, 81432
Telephone: 307-760-8838

Copy of Report to:

Name: Environmental
Company: Ouray Silver Mines Inc.

E-mail: environmental@ouraysilvermines.com
Telephone: 970-325-9830

Invoice to:

Name: Ashlee Briggs
Company: Ouray Silver Mines Inc.
E-mail: abriggs@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 ☒
NO ☐

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 ☒

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

Sampler's Name: Joshua A. Moore Sampler's Site Information State CO Zip code 81427 Time Zone Mtn

*Sampler's Signature: *Joshua Moore* *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

ANALYSES REQUESTED (attach list or use quote number)

Quote #: CDPS-BIMONTH-VVV

PO#:

Reporting state for compliance testing: CO

Check box if samples include NRC licensed material? ☐

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	CDPS-BIMONTH-VVV									
OF002A	12/8/21 13:00	WW	4	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐
		WW		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		WW		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		WW		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		WW		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		WW		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		WW		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		WW		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		WW		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
		WW		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐



Whole Effluent Toxicity Testing Report

Ouray Silver Mines Inc.

Submitted to:

Briana Greer

Solid Solution Geosciences, LLC

105 Meadow Estates Drive

Ridgeway, CO 81432

Submitted by:

GEI Consultants, Inc.

Ecological Division

4601 DTC Boulevard, Suite 900

Denver, CO 80237

July 7, 2021

Project 2004862

Report prepared by: MH



1.0 Test Summary

Enclosed are the results of the chronic *Ceriodaphnia dubia* and *Pimephales promelas* tests performed June 3 to 10, 2021. Chronic toxicity test procedures followed the methods described in EPA documentation (EPA 2002) and CDPHE guidelines (CDPHE 1998). All chemistry measurements within this report (i.e. alkalinity, pH, dissolved oxygen, etc...) are support data for the WET tests and are not intended to be used as measurements for compliance purposes.

Daily temperatures were taken in the test chambers for the duration of both tests. The temperature in the *C. dubia* test differed by 3.7°C.

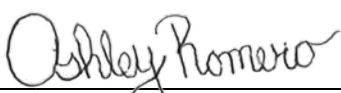
There were no significant effects on survival in the *C. dubia* test, however, there were significant effects on reproduction, with an IC₂₅ of >100% effluent (95% C.I. unavailable) and a NOEC of 45% effluent. The reproduction data were consistent with the pattern described in EPA's method guidance document of "significant effect bracketed by non-significant effects" (EPA 2000). When this pattern occurs, the guidance requires a review of the concentration-response curve. In this case, the percent minimum significant difference (PMSD) of 10.3% was below the lower bound set by the EPA of 13% indicating a highly sensitive test. When this occurs, only effects greater than the lower PMSD bound should be considered significant. The effects in all tested concentrations were below the lower PMSD bound, therefore, the lower NOEC is considered anomalous and the higher NOEC is approved. The new NOEC for reproduction is 100% effluent, with the IC₂₅ of >100% effluent (95% C.I. unavailable) remaining unchanged. Control performance criteria were met.

There were no significant effects in the *P. promelas* test and control performance criteria were met.

Table 1: Test results summary based on an instream waste concentration of 89% effluent.

Test Species	Survival		Reproduction/Growth	
	IC ₂₅	NOEC	IC ₂₅	NOEC
<i>C. dubia</i>	Pass	Pass	Pass	Pass
<i>P. promelas</i>	Pass	Pass	Pass	Pass

Report approved by:


Ashley Romero, Laboratory Manager


Natalie Love, Laboratory Director

2.0 Test Conditions

2.1 *Ceriodaphnia dubia* 7-day toxicity test to estimate chronic toxicity

Method: EPA-821-R-02-013 -- Short-Term Method for Estimating Chronic Toxicity. . .

Test Duration: until at least 60% of control organisms release 3 broods

Sample Collection Procedure: composite

Sample Collection Dates: 6/2/21, 6/4/21, 6/7/21

Dilution water: moderately hard reconstituted water

Age of organisms at start: <24 hours old

Feeding: 0.1 mL YCT/0.1 mL *Selenastrum* daily

End Point: mortality, normalized reproduction

Start Date and Time: 6/3/21 11:00

End Date and Time: 6/9/21 10:45

Type of exposure chamber: 30 mL disposable plastic cup

Volume of exposure chamber: 15 mL

Number of animals exposed/chamber: 1

Number of replicates/treatment: 10

Test temperature: 24.4°C ± 1.9°C
EPA recommended range: 25.0°C ± 1.0°C

Standard toxicant used: NaCl

2.2 *Pimephales promelas* 7-day toxicity test to estimate chronic toxicity

Method: EPA-821-R-02-013 -- Short-Term Method for Estimating Chronic Toxicity. . .

Test Duration: 7 days

Sample Collection Procedure: composite

Sample Collection Date: 6/2/21, 6/4/21, 6/7/21

Dilution water: moderately hard reconstituted water

Age of organisms at start: <24 hours old

Feeding: 0.15 mL *Artemia* nauplii 2 times per day

End Point: mortality, growth

Start Date and Time: 6/3/21 11:40

End Date and Time: 6/10/21 10:50

Type of exposure chamber: 300 mL beakers

Volume of exposure chamber: 250 mL

Number of animals exposed/chamber: 10

Number of replicates/treatment: 4

Test temperature: 25.1°C ± 1.0°C
EPA recommended range: 25.0°C ± 1.0°C

Aeration: None

Standard toxicant used: NaCl

3.0 QA/QC Summary

3.1 Sample QA/QC

Client: Ouray Silver Mines Inc.

Date tests started: 6/3/21

Chain of custody received Yes

Chain of custody completed Yes/No*

*Relinquishment date, time, and signature not recorded by client for sample received 6/5/21.

Samples received within holding times Yes

Samples at correct temperature (0-6°C or sampled the same day received) Yes

Samples used within 36 hours of collection Yes

3.2 Test Acceptability

Control performance criteria met (Table 2) Yes

Table 2: Control performance criteria requirements and test results by species.

Test Species	Survival		Reproduction/Growth	
	Test (%)	Acceptable (%)	Test (# or mg)	Acceptable (# or mg)
<i>C. dubia</i>	100	80	45.7	15.0
<i>P. promelas</i>	92.5	80	0.407	0.250

Tests renewed within acceptable timeframe Yes

At least 60% of control organisms in chronic *C. dubia* test released at least 3 broods Yes

3.3 Statistical QA/QC

Percent minimum significant difference (PMSD) below upper bound (Table 3) Yes

Table 3: Calculated and allowable PMSD upper bounds by species.

Test Species	Calculated PMSD	EPA PMSD Upper Bound
<i>C. dubia</i>	10	47
<i>P. promelas</i>	16	30

Evaluation of concentration-response curve conducted for all endpoints

(Figures 1-4 & Table 4).....Yes

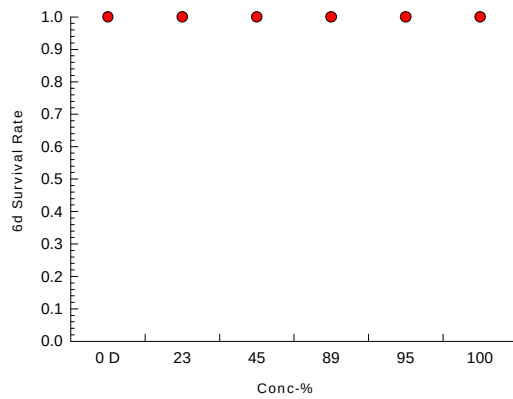


Figure 1: *C. dubia* survival

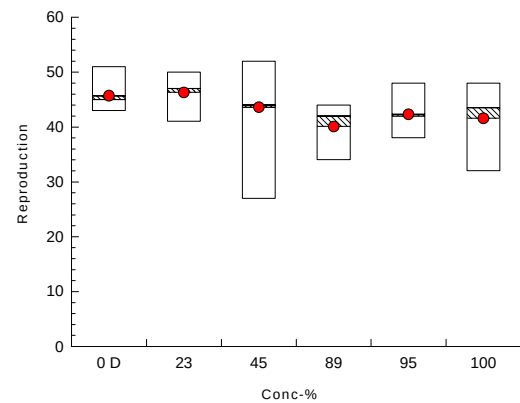


Figure 2: *C. dubia* reproduction

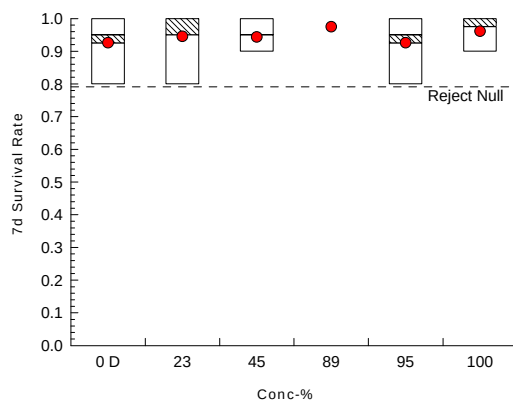


Figure 3: *P. promelas* survival

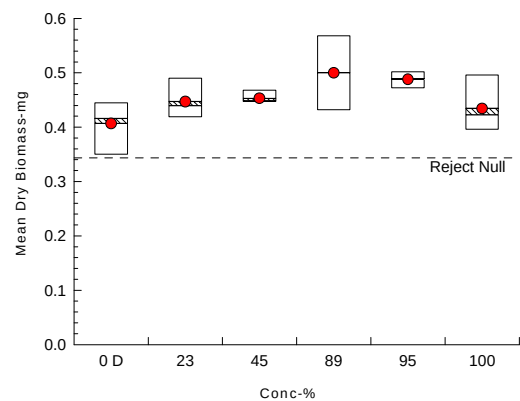


Figure 4: *P. promelas* growth

Table 4: Concentration-response curve evaluation summary.

Species	Endpoint	Concentration-Response Pattern	Valid Curve	Data Acceptability
<i>C. dubia</i>	Survival	Flat	Yes	Approved
	Reproduction	Interrupted concentration-response with significant effects in the 89% test concentration	Yes - Low PMSD	Only effects greater than lower PMSD bound considered significant; Approved with no significant effects
<i>P. promelas</i>	Survival	Varied with no significant effects	Yes	Approved
	Growth	Varied with no significant effects	Yes	Approved

3.4 Reference Toxicant Summary

Most recent reference toxicant tests met performance requirements (Tables 5 & 6).....Yes

Most recent reference toxicant tests within control chart requirements.....Yes

Table 5: Chronic *Ceriodaphnia dubia* reference toxicant test with NaCl, conducted June 1 to 7, 2021.

mg NaCl/L	Control	150	300	600	1200	2400
#alive/#exposed	10/10	9/10	10/10	9/10	9/10	0/10
% survival	100	90	100	90	90	0
Normalized reproduction $\pm$ SD	37.7 $\pm$ 5.3	35.8 $\pm$ 13.3	33.5 $\pm$ 9.0	29.6 $\pm$ 10.3	18.3 $\pm$ 12.4	0.0 $\pm$ 0.0

Normalized Reproduction:

IC₂₅ (ICp Method) = 670.4 mg NaCl/L (95% C.I. 294.3 to 879.5)

Note: This is within our accepted performance range (550.8 to 1228.8) determined by 20 previous reference tests performed.

Table 6: Chronic *Pimephales promelas* reference toxicant test with NaCl, conducted June 8 to 15, 2021.

g NaCl/L	Control	0.5	1.5	3.0	5.0	7.0
#alive/#exposed	40/40	40/40	38/40	22/40	20/40	9/40
% survival	100	100	95	55	50	22.5
Dry Weight (mg) $\pm$ SD	0.414 $\pm$ 0.015	0.371 $\pm$ 0.022	0.379 $\pm$ 0.039	0.191 $\pm$ 0.039	0.134 $\pm$ 0.061	0.062 $\pm$ 0.060

Growth:

IC₂₅ (ICp Method) = 2.03 gm NaCl/L (95% C.I. 1.74 to 2.33)

Note: This is within our accepted performance range (0.93 to 2.41) determined by 20 previous reference tests performed.

4.0 Results

4.1 *Ceriodaphnia dubia* Chronic Toxicity Test

TEST: 7-day chronic with *Ceriodaphnia dubia*

OPERATORS: TE, JW, JMS, KG, MH

Start: 6/3/21 11:00

End: 6/9/21 10:45

Test Substance: Effluent

Client/Project: Ouray Silver Mines Inc.

Table 7: Summary results of *C. dubia* chronic toxicity test.

Treatment % Effluent	0	23	45	89	95	100
#alive/#exposed	10/10	10/10	10/10	10/10	10/10	10/10
% survival	100	100	100	100	100	100
Normalized repro / # females exposed $\pm$ SD	45.7 $\pm$ 2.8	46.3 $\pm$ 2.6	43.6 $\pm$ 7.3	40.1 $\pm$ 3.9	42.3 $\pm$ 3.2	41.6 $\pm$ 5.8
Dissolved O ₂ range (mg/L)	<u>6.8</u> 6.3	<u>6.8</u> 6.4	<u>6.8</u> 6.4	<u>6.9</u> 6.5	<u>6.8</u> 6.5	<u>6.9</u> 6.5
pH range (SU)	<u>8.4</u> 8.3	<u>8.4</u> 8.3	<u>8.4</u> 8.3	<u>8.4</u> 8.3	<u>8.4</u> 8.3	<u>8.4</u> 8.3
Conductivity range (μ mho/cm)	<u>382</u> 343	<u>367</u> 334	<u>362</u> 312	<u>349</u> 281	<u>344</u> 281	<u>350</u> 283
Temperature range (°C)	<u>25.7</u> 23.2	<u>26.0</u> 23.1	<u>25.6</u> 23.2	<u>25.5</u> 23.0	<u>26.2</u> 22.5	<u>25.8</u> 23.3

Statistical Analysis:

Survival:

NOEC (Fisher Exact/Bonferroni-Holm) = 100% Effluent

IC₂₅ (ICp Method) = >100% Effluent (95% C.I. unavailable)

Normalized Reproduction:

Approved: Higher NOEC (Steel Many-One Rank Sum) = 100% Effluent

Not Used: Lower NOEC (Steel Many-One Rank Sum) = 45% Effluent

IC₂₅ (ICp Method) = >100% Effluent (95% C.I. unavailable)

4.2 *Pimephales promelas* Chronic Toxicity Test

TEST: 7-day chronic with *Pimephales promelas*

OPERATORS: JW, AW, JMS, MH

Start: 6/3/21 11:40

End: 6/10/21 10:50

Test Substance: Effluent

Client/Project: Ouray Silver Mines Inc.

Table 8: Summary results of *P. promelas* chronic toxicity test.

Treatment % Effluent	0	23	45	89	95	100
#alive/#exposed	37/40	38/40	38/40	40/40	37/40	39/40
% survival	92.5	95	95	100	92.5	97.5
Dry weight (mean wt. (mg) / #exposed $\pm$ SD)	0.407 $\pm$ 0.041	0.447 $\pm$ 0.031	0.453 $\pm$ 0.010	0.500 $\pm$ 0.059	0.488 $\pm$ 0.012	0.434 $\pm$ 0.044
Dissolved O ₂ range (mg/L)	<u>5.8</u> 4.8	<u>5.5</u> 4.6	<u>5.5</u> 4.5	<u>5.4</u> 4.2	<u>5.4</u> 4.4	<u>5.5</u> 4.3
pH range (SU)	<u>7.9</u> 7.7	<u>7.9</u> 7.7	<u>7.9</u> 7.7	<u>7.9</u> 7.6	<u>7.9</u> 7.5	<u>7.9</u> 7.5
Conductivity range (μ mho/cm)	<u>346</u> 318	<u>341</u> 319	<u>336</u> 314	<u>331</u> 286	<u>326</u> 280	<u>327</u> 280
Temperature range (°C)	<u>25.8</u> 24.1	<u>25.9</u> 25.1	<u>26.1</u> 25.2	<u>26.1</u> 25.4	<u>25.9</u> 25.1	<u>26.0</u> 25.3

Statistical Analysis:

Survival:

NOEC (Dunnett Multiple Comparison) = 100% Effluent

IC₂₅ (ICp Method) = >100% Effluent (95% C.I. unavailable)

Growth:

NOEC (Dunnett Multiple Comparison) = 100% Effluent

IC₂₅ (ICp Method) = >100% Effluent (95% C.I. unavailable)

4.3 Water Chemistry Results from Samples Received for Toxicity Tests

Table 9: Wet chemistry on reconstituted water and effluent samples.

Measurement	MH Recon Water*	100% Effluent Received 6/3/21	100% Effluent Received 6/5/21	100% Effluent Received 6/8/21
Analysis Temperature (°C)	25.0	25.0	25.0	25.0
Total Hardness (mg CaCO ₃ /L)	91	118	110	130
pH (SU)	8.3	7.7	7.7	7.6
Alkalinity (mg CaCO ₃ /L)	68	70	60	92
Conductivity (µmho/cm)	307	295	282	327
Total Dissolved Solids Calculated from Conductivity (mg/L)	--	144	138	160
Dissolved Oxygen (mg/L)	7.1	8.2	8.0	6.7
Ammonia as N (mg NH ₃ /L)	--	0.05	0.18	0.08
Un-ionized Ammonia (mg NH ₃ /L)	--	<0.10	<0.10	<0.10
Total Residual Chlorine (mg/L)	--	<0.02	<0.02	<0.02

*Represents an average of two reconstituted waters used.

5.0 References

Colorado Department of Public Health and Environment (CDPHE). 1998. Water Quality Control Division. Laboratory guidelines for conducting whole effluent toxicity tests. Denver, Colorado.

Tidepool Scientific Software. 2000-2018. CETIS - Comprehensive Environmental Toxicity Information System. V1.9.5.5. McKinleyville, CA.

U.S. Environmental Protection Agency (EPA). 2000. Method Guidance and Recommendations for Whole Effluent Toxicity (WET) Testing. EPA-821-B-00-004. Office of Water, Washington, D.C.

U.S. Environmental Protection Agency (EPA). 2002. Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms. EPA-821-R-02-013. Office of Water, Washington D.C.

Appendix A

Colorado CDPS WET test report forms

COLORADO – CDPS WET TEST REPORT FORM – CHRONIC

 PERMITEE NAME: Ouray Silver Mines Inc.

 CDPS NO: CO-0000003

 OUTFALL: 002A

 TYPE TEST: ROUTINE ☒

ACCELERATED

 TEST SPECIES: Ceriodaphnia dubia

Test Results:

Lethality

Growth

Reproduction

CONC. WITH STAT. DIFFERENCE	>100%	NA	>100%
PASS/FAIL	PASS	NA	PASS
NOEC	100%	NA	100%
PASS/FAIL	PASS	NA	PASS
IC ₂₅	>100%	NA	>100%
PASS/FAIL	PASS	NA	PASS

STAT. METHOD USED: STATISTICAL DIFF.:

NOEC, LC₅₀
IC₂₅
ICp METHOD

 TEST DATE/TIME: START 6/3/21 11:00

 END 6/9/21 10:45

DILUTIONS (%EFFLUENT)

	CONTROL	23%	45%	89%	95%	100%
% SURVIVAL FOR DAY: 1	100	100	100	100	100	100
2	100	100	100	100	100	100
3	100	100	100	100	100	100
4	100	100	100	100	100	100
5	100	100	100	100	100	100
6	100	100	100	100	100	100
MEAN 3 BROOD TOTAL:	45.7	46.3	43.6	40.1	42.3	41.6
7 DAY MEAN DRY WEIGHT:						
pH MAX/MIN:	8.4/8.3	8.4/8.3	8.4/8.3	8.4/8.3	8.4/8.3	8.4/8.3

 MEAN HARDNESS (mg/L) RECEIVING WATER: NA EFFLUENT: 119 RECON WATER: 91

 MEAN ALKALINITY (mg/L) RECEIVING WATER: NA EFFLUENT: 74 RECON WATER: 68

 MEAN T. AMMONIA as N (mg/L) INITIAL EFFLUENT: 0.10 FINAL EFFLUENT: NA

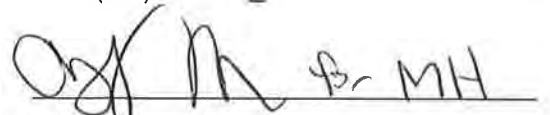
 MEAN T. RESIDUAL CHLORINE (mg/L) 100%: <0.02 RECEIVING WATER USED FOR DILUTIONS? (Y/N) N

 WERE ALL TEST CONDITIONS IN CONFORMANCE WITH DIVISION GUIDELINES? (Y/N) Y

IF NO, LIST DEVIATIONS FROM TEST SPECIFICATIONS:

 ANALYST: Michael Hendricks

SIGNATURE:



 LABORATORY: GEI Consultants, Inc./Ecological Division

DATE:

6/29/2021

 COMMENTS: The temperature in the test differed by 3.7°C.

COLORADO – CDPS WET TEST REPORT FORM – CHRONIC

 PERMITEE NAME: Ouray Silver Mines Inc.

 CDPS NO: CO-0000003

 OUTFALL: 002A

 TYPE TEST: ROUTINE ☒

ACCELERATED

 TEST SPECIES: Pimephales promelas

Test Results:

Lethality

Growth

Reproduction

CONC. WITH STAT. DIFFERENCE	>100%	>100%	NA
PASS/FAIL	PASS	PASS	NA
NOEC	100%	100%	NA
PASS/FAIL	PASS	PASS	NA
IC ₂₅	>100%	>100%	NA
PASS/FAIL	PASS	PASS	NA

STAT. METHOD USED: STATISTICAL DIFF.:

NOEC, LC₅₀
IC₂₅
ICp METHOD

 TEST DATE/TIME: START 6/3/21 11:40

 END 6/10/21 10:50

DILUTIONS (%EFFLUENT)

	CONTROL	23%	45%	89%	95%	100%
% SURVIVAL FOR DAY: 1	100	100	100	100	100	100
2	100	97.5	97.5	100	95	100
3	95	95	97.5	100	95	100
4	92.5	95	95	100	92.5	97.5
5	92.5	95	95	100	92.5	97.5
6	92.5	95	95	100	92.5	97.5
7	92.5	95	95	100	92.5	97.5
MEAN 3 BROOD TOTAL:						
7 DAY MEAN DRY WEIGHT:	0.407	0.447	0.453	0.500	0.488	0.434
pH MAX/MIN:	7.9/7.7	7.9/7.7	7.9/7.7	7.9/7.6	7.9/7.5	7.9/7.5

 MEAN HARDNESS (mg/L) RECEIVING WATER: NA EFFLUENT: 119 RECON WATER: 91

 MEAN ALKALINITY (mg/L) RECEIVING WATER: NA EFFLUENT: 74 RECON WATER: 68

 MEAN T. AMMONIA as N (mg/L) INITIAL EFFLUENT: 0.10 FINAL EFFLUENT: NA

 MEAN T. RESIDUAL CHLORINE (mg/L) 100%: <0.02 RECEIVING WATER USED FOR DILUTIONS? (Y/N) N

 WERE ALL TEST CONDITIONS IN CONFORMANCE WITH DIVISION GUIDELINES? (Y/N) Y

IF NO, LIST DEVIATIONS FROM TEST SPECIFICATIONS:

 ANALYST: Michael Hendricks

 SIGNATURE: 

 LABORATORY: GEI Consultants, Inc./Ecological Division

 DATE: 6/29/2021

COMMENTS:

Appendix B

Chain-of-custody forms and laboratory bench sheets from whole effluent toxicity tests

(GFI Use) Log Number 05621-2

[illegible]

GEI Consultants, Inc./Ecological Division
4601 DTC BLVD., SUITE L100
DENVER, CO 80237
Main: (303) 662-0100 Lab: (303) 264-1120

(GEI Use) Log Number

05621-0024-3

BIOASSAY LABORATORY CHAIN-OF-CUSTODY

CLIENT/PROJECT		TESTS REQUIRED		CHLORINE			
		ACUTE	CHRONIC				
CLIENT/PROJECT: <u>Civica Silver Pines</u>				Measured by: Client ☐ Lab ☒			
ADDRESS: <u>1900 Main St</u>							
CITY: <u>Curey</u> STATE: <u>CO</u> ZIP: <u>81427</u>							
PHONE #: _____							
PROJ. MANAGER: <u>Todd Rose</u> SAMPLER: <u>Chris Roberts</u>							
SAMPLE TYPE/SITE	Composite	Grab	Date Collected	Time Collected	TRC (mg/L)	Date/Time Measured	COMMENTS:
<u>COI-A / WEST</u>		☒	<u>6/7</u>	<u>9:54a</u>	<u><0.02</u>	<u>6/8/21 1230</u>	
PROJECT INFORMATION		LABORATORY RECEIVING INFORMATION		CLIENT			
CLIENT DROP OFF: ☐	CONDITION OF SAMPLE ON RECEIPT: <u>Good</u>	RELINQUISHED BY: <u>Chris - caps</u>		DATE/TIME: <u>6/7 @ 1000</u>			
COURIER: <u>UPS</u> FEDEX ☐ OTHER ☐	CUSTODY SEAL INTACT?: YES ☐ NO ☐ N/A ☒	DATE/TIME: <u>6/8/21</u>		LABORATORY RECEIVED BY: <u>TMR</u>			
TOTAL NUMBER OF CONTAINERS: <u>4</u>	TEMPERATURE (°C): <u>6.0</u>	TEMPERATURE IN RANGE (0-6°C): YES ☒ NO ☐		DATE/TIME: <u>6/8/21 1200</u>			
IF NOT IN RANGE, SAMPLED SAME DAY, TEMP OK?: YES ☐ NO ☐							
COMMENTS:							

1300 Blue Spruce Drive, Suite C
Fort Collins, Colorado 80524



Toll Free: 800/331-5916
Tel: 970/484-5091 Fax: 970/484-2514

05621-002A

ORGANISM HISTORY

DATE: 6/2/2021

SPECIES: *Pimephales promelas*

AGE: N/A

LIFE STAGE: Embryo

HATCH DATE: 6/2/2021

BEGAN FEEDING: N/A

FOOD: N/A

Water Chemistry Record:

	Current	Range
TEMPERATURE:	25°C	--
SALINITY/CONDUCTIVITY:	--	--
TOTAL HARDNESS (as CaCO ₃):	142 mg/l	--
TOTAL ALKALINITY (as CaCO ₃):	85 mg/l	--
pH:	8.28	--

Comments:


Facility Supervisor

INITIAL CHEMISTRY BENCH SHEET

Client/Project: Ouray 002A/OS 021 -002A

Samples Received: Date/Time 6/3/21 8:30

Test Substance: Effluent 002A

What tests will samples be used in?

Ch C/F

Dilution Water lab water for receiving water

SAMPLE TYPE LOG NUMBER DATE COLLECTED	DATE/TIME ANALYZED	DATES USED	ANALYSES TEMP. (°C)	TOTAL HARDNESS (mg/L)	pH (SU)	TOTAL ALKALINITY (mg/L)	D.O. (mg/L)	COND. (µs)	TDS CALCULATED FROM COND. (mg/L)	TRC (mg/L)	AMMONIA AS N (mg/L)	METER USED	ANALYST
Effluent OS 021-1 6/12/21	6/3/21 1005	6/3/21	25.0	5.91 118	7.7	3.31 70	8.2	295	144	<0.02	0.05	1	W
Effluent OS 021-2 6/14/21	6/15/21 945	6/15/21 6/17/21	25.0	5.31 110	7.7	3.01 60	8.0	282	138	<0.02	0.18	1	W
Effluent OS 021-3 6/17/21	6/18/21 1245	6/18/21 6/19/21	25.0	6.51 130	7.6	4.01 92	6.7	327	160	<0.02	0.08	1	W
Average			25.0	119	7.7	74	7.6	301	147	<0.02	0.10		

Site Daily Measurements	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7					
pH/initials	7.7/W	7.7/HE	7.7/W	7.7/W	7.7/AS	7.6/ 146	7.87/ 146						
pH/initials													
pH/initials													
pH/initials													

COMMENTS:

Samples stored in refrigerator: N

Data Checked and Approved by Laboratory Manager (Initials): AR

RECONSTITUTED SYNTHETIC LABORATORY WATER CHEMISTRY BENCH SHEET

Client/Project: Ouray 002A/OS 421 -002A

Test Substance: Effluent 002A

Analyst: AW

What test/s will samples be used in? Ch C/F

Test/s Start Date: 4/1/21

BATCH #	ANALYSES TEMP. (°C)	TOTAL HARDNESS (mg/L)	pH (SU)	TOTAL ALKALINITY (mg/L)	D.O. (mg/L)	COND. (µS)
MH 137	25.0	92	8.3	68	7.1	302
MH 133	25.0	90	8.2	68	7.1	312
AVERAGE VALUE	25.0	91	8.3	68	7.1	307

COMMENTS:

CHRONIC TOXICITY CHEMISTRY BENCH SHEET

START Date: 6/3/21

FINISH Date: 6/9/21

Dilution Water: MH Recon

Test Substance: Effluent 002A

Client/Project: Ouray 002A/OS 621 -002A

Organism: C. dubia

Test Conc.	Chemical Parameter	Day of Test							COMMENTS
		1	2	3	4	5	6	7	
0	DO (mg/L)	6.7	6.4	6.3	6.7	6.8	6.8		
	Cond. (µS)	344	382	343	346	344	347		
	pH	8.3	8.4	8.3	8.4	8.3	8.3		
	Temp. (°C)	24.0	23.2	24.0	24.2	25.7	25.1		
23	DO (mg/L)	6.7	6.4	6.6	6.7	6.7	6.8		
	Cond. (µS)	334	367	335	339	336	345		
	pH	8.3	8.3	8.3	8.4	8.3	8.3		
	Temp. (°C)	23.9	23.1	23.8	24.1	26.0	25.1		
45	DO (mg/L)	6.6	6.4	6.6	6.7	6.7	6.8		
	Cond. (µS)	323	362	312	323	322	337		
	pH	8.4	8.4	8.3	8.4	8.3	8.4		
	Temp. (°C)	24.4	23.2	23.6	24.7	25.6	25.5		
89	DO (mg/L)	6.7	6.5	6.4	6.7	6.8	6.9		
	Cond. (µS)	304	349	282	281	289	332		
	pH	8.3	8.4	8.3	8.4	8.3	8.4		
	Temp. (°C)	24.7	23.0	24.0	24.3	25.3	25.5		
95	DO (mg/L)	6.7	6.5	6.7	6.7	6.7	6.8		
	Cond. (µS)	308	344	281	288	289	332		
	pH	8.4	8.4	8.3	8.4	8.3	8.4		
	Temp. (°C)	25.2	22.5	24.2	25.1	25.7	26.2		
100	DO (mg/L)	6.8	6.5	6.7	6.8	6.8	6.9		
	Cond. (µS)	323	350	283	290	288	334		
	pH	8.4	8.4	8.3	8.4	8.3	8.4		
	Temp. (°C)	24.9	23.3	24.2	23.3	23.8	25.8		
Incubator Temperature (°C)		26.0	26.0	26.0	26.0	26.5	26.0		Max: 26.2
Analyst		TE	W	W	JMS	TE	W		Min: 22.5
Time Analyzed		1015	1045	1020	1000	1400	1120		Range: 3.7
Environmental Chamber		W	W	W	W	W	W		Mean: 24.4±1.9
Meter Number		1	1		1	1	1		

Data Checked and Approved by Laboratory Manager (Initials): AK

CHRONIC TOXICITY CHEMISTRY BENCH SHEET

START Date: 6/3/21

FINISH Date: 6/10/21

Dilution Water: MH Recon

Test Substance: Effluent 002A

Client/Project: Ouray 002A/OS 021 -002A

Organism: P. promelas

Test Conc.	Chemical Parameter	Day of Test								COMMENTS
		1	2	3	4	5	6	7		
0	DO (mg/L)	5.8	5.8	5.2	5.5	4.8	5.5	5.6		
	Cond. (µS)	331	338	346	346	343	342	318		
	pH	7.4	7.9	7.8	7.9	7.9	7.7	7.9		
	Temp. (°C)	25.3	25.5	25.0	24.1	25.7	25.7	25.8		
23	DO (mg/L)	5.5	5.5	4.9	5.4	4.6	5.3	5.4		
	Cond. (µS)	328	331	329	332	328	341	319		
	pH	7.4	7.8	7.7	7.4	7.7	7.7	7.9		
	Temp. (°C)	25.5	25.5	25.4	25.3	25.9	25.8	25.1		
45	DO (mg/L)	5.5	5.4	5.2	5.1	4.5	5.2	5.3		
	Cond. (µS)	319	326	314	317	315	336	314		
	pH	7.8	7.8	7.7	7.8	7.7	7.7	7.9		
	Temp. (°C)	25.5	25.5	25.5	25.2	25.5	26.1	26.1		
89	DO (mg/L)	5.4	5.4	5.1	5.1	4.2	5.0	5.2		
	Cond. (µS)	304	315	290	317	286	331	309		
	pH	7.8	7.8	7.7	7.8	7.6	7.7	7.9		
	Temp. (°C)	25.7	25.5	25.5	25.5	25.4	26.1	25.7		
95	DO (mg/L)	5.4	5.4	5.1	5.2	4.4	5.0	5.2		
	Cond. (µS)	300	314	283	289	280	326	306		
	pH	7.8	7.8	7.7	7.7	7.5	7.7	7.9		
	Temp. (°C)	25.5	25.4	25.6	25.1	25.6	25.6	25.9		
100	DO (mg/L)	5.5	5.4	5.1	5.2	4.3	5.0	5.1		
	Cond. (µS)	312	308	284	281	280	327	307		
	pH	7.4	7.8	7.7	7.8	7.5	7.8	7.9		
	Temp. (°C)	25.5	25.4	25.4	25.3	25.7	25.8	26.0		
Incubator Temperature (°C)		26.5	26.5	26.5	26.5	26.5	26.5	26.5		Max: 26.1
Analyst		JMS	M	M	JMS	MT	M	MT		Min: 24.1
Time Analyzed		1055	1040	1015	1025	1630	1355	1140		Range: 2.0
Environmental Chamber		✓	✓	✓	✓	✓	✓	✓		Mean: 25.1 ± 1.0
Meter Number		1	1	1	1	1	1	1		

Data Checked and Approved by Laboratory Manager (Initials): AK

CERIODAPHNIA DUBIA 3-BROOD CHRONIC TOXICITY TEST BENCH SHEET

PAGE 1/2

START Date/Time: 6/3/21 1100

FINISH Date/Time: 6/19/21 1045

Dilution Water: MH Recon

Test Substance: Effluent 002A

Client/Project: Ouray 002A/OS 621 -002A

Begun By: yw

Conc.	Day	Replicate										D.O. (mg/L)	Analyst	Time Renewed and Fed	NOTES:		
		A	B	C	D	E	F	G	H	I	J						
0	1	0									0	7.6	TE	945			
	2	0									0	7.6	W	1005			
	3	0	6	0	8	0	7	7	0	7	5	6.7	W	935			
	4	8	0	8	0	8	0	0	7	0	1	7.2	JMS	915			
	5	18	18	14	19	14	14	14	17	17	17	7.9	MH	1250			
	6	17	25	21	24	23	22	23	24	21	23	7.1	KG	1045			
	7																
	8																
TOTALS		43	49	43	51	45	43	44	48	45	40				10	45.7±2.8	45.7±2.8

Conc.	Day	Replicate										D.O. (mg/L)	Analyst	NOTES:		
		A	B	C	D	E	F	G	H	I	J					
23	1	0									0	7.4	TE			
	2	0									0	7.0	W			
	3	0	5	0	0	0	7	6	7	0	5	6.6	W			
	4	5	0	0	8	9	0	0	0	8	1	7.2	JMS			
	5	15	18	18	17	17	16	16	16	18	18	7.6	MH			
	6	23	24	26	20	15	24	25	24	22	24	7.0	KG			
	7															
	8															
TOTALS		43	47	50	45	41	47	47	47	48	48			10	46.3±2.6	

Conc.	Day	Replicate										D.O. (mg/L)	Analyst	NOTES:		
		A	B	C	D	E	F	G	H	I	J					
45	1	0									0	7.4	TE			
	2	0									0	7.3	W			
	3	0	8	7	0	7	0	6	0	6	5	6.7	W			
	4	4	0	0	3	1	8	0	7	0	0	7.2	JMS			
	5	18	18	18	12	17	16	17	16	15	14	7.0	MH			
	6	19	20	25	12	25	23	18	17	25	23	6.9	KG			
	7															
	8															
TOTALS		41	52	50	27	50	47	41	40	46	42			10	43.6±7.3	

Board Used	Cup									
5/24A	2	7	9	12	13	14	15	17	18	32

Date/time adults isolated	6/2/21 1420
Date/time neonates harvested	6/2/21 2000

Data used for Statistical Analyses: 6 Day 7 Day 8 Day

Template number 4

Data Checked and Approved by Laboratory Manager (Initials): AR

START Date/Time: 6/3/21 1100

FINISH Date/Time: 6/9/21 1045

Dilution Water: MH Recon

Test Substance: Effluent 002A

Client/Project: Ouray 002A/OS 621 -002A

Begun By: mv

Conc.	Day	Replicate										D.O. (mg/L)	Analyst	Time Renewed and Fed	NOTES:			
		A	B	C	D	E	F	G	H	I	J							
89	1	0									0	7.3	TE	945				
	2	0									0	7.7	W	1005				
	3	0	6	6	7	0	7	5	5	4	6	6.7	W	935				
	4	6	0								0	7.6	JMS	915				
	5	14	15	15	18	18	16	14	15	17	15	7.5	MIT	1250				
	6	10	15	23	18	19	20	15	24	21	21	6.8	KG	1045				
	7																	
	8																	
TOTALS		36	36	44	43	37	43	34	44	42	42					# live adults	10	40.1 ± 3.9

Conc.	Day	Replicate										D.O. (mg/L)	Analyst	NOTES:		
		A	B	C	D	E	F	G	H	I	J					
95	1	0									0	7.3	TE			
	2	0									0	7.7	W			
	3	0	6	5	7	0	6	5	4	5	0	6.7	W			
	4	7	0	1	0	3	0			0	5	7.7	Jmy			
	5	17	15	19	17	15	17	16	16	16	15	7.4	MLt			
	6	16	24	23	17	21	22	19	23	23	18	6.6	KG			
	7															
	8															
TOTALS		40	45	48	41	39	45	40	43	44	38				# live adults	10
															normalized reproduction $\pm$ S.D.	42.3 $\pm$ 3.2

Conc.	Day	Replicate										D.O. (mg/L)	Analyst	NOTES:			
		A	B	C	D	E	F	G	H	I	J						
100	1	0									0	7.5	TE				
	2	0									0	7.8	W				
	3	0	7	7	7	5	4	5	7	0	0	7.0	W				
	4	5	0						0	6	3	8.2	JMS				
	5	16	17	18	18	16	17	14	16	15	17	6.7	MT				
	6	20	24	21	22	21	24	14	22	16	12	6.6	KG				
	7																
	8																
TOTALS		41	48	46	47	42	45	33	45	37	32				# live adults	10	41.6±5.8

Board Used	Cup									
5/24A	2	7	9	12	13	14	15	17	18	32

Date/time adults isolated	6/2/21 1420
Date/time neonates harvested	6/2/21 2000

Data used for Statistical Analyses: 6 Day 7 Day 8 Day

Template number 4

Data Checked and Approved by Laboratory Manager (Initials): AR

FATHEAD MINNOW 7-DAY CHRONIC TOXICITY TEST BENCH SHEET

START Date/Time: 6/3/21 1140

FINISH Date/Time: 6/10/21 1050

Dilution Water: MH Recon

Test Substance: Effluent 002A

Client/Project: Ouray 002A/OS 621 -002A

Begun By: W

CONCENTRATION & REPLICATE		Number alive/day of test								#alive/ # exposed (% survival)	COMMENTS
		Start	1	2	3	4	5	6	7		
0	A	10	10	10	8	8	8	8	8	37/40 92.5%.	
	B	10	10	10	10	9	9	9	9		
	C	10	10	10	10	10	10	10	10		
	D	10	10	10	10	10	10	10	10		
23	A	10	10	10	10	10	10	10	10	38/40 95%.	
	B	10	10	9	8	8	8	8	8		
	C	10	10	10	10	10	10	10	10		
	D	10	10	10	10	10	10	10	10		
45	A	10	10	10	10	10	10	10	10	38/40 95%.	
	B	10	10	10	10	9	9	9	9		
	C	10	10	10	10	10	10	10	10		
	D	10	10	9	9	9	9	9	9		
89	A	10	10	10	10	10	10	10	10	40/40 100%.	
	B	10	10	10	10	10	10	10	10		
	C	10	10	10	10	10	10	10	10		
	D	10	10	10	10	10	10	10	10		
95	A	10	10	9	9	8	8	8	8	37/40 92.5%.	
	B	10	10	10	10	10	10	10	10		
	C	10	10	9	9	9	9	9	9		
	D	10	10	10	10	10	10	10	10		
100	A	10	10	10	10	9	9	9	9	39/40 97.5%.	
	B	10	10	10	10	10	10	10	10		
	C	10	10	10	10	10	10	10	10		
	D	10	10	10	10	10	10	10	10		
ANALYST		W	JMS	W	W	JMS	Mit	W	AW		
TIME FED AM		655	700	630	630	615	545	550	—		
TIME FED PM		1645	1530	1520	1425	1530	1700	1840	—		
TIME RENEWED		1140	1100	1100	1025	1025	1630	1405	1050		

Template Number 11

Data Checked and Approved by Laboratory Manager (Initials): KM

FATHEAD MINNOW 7-DAY CHRONIC TOXICITY WEIGHT BENCH SHEET

DRYING START Date/Time: 6/10/21 1130 Temp. 59.0 °C END Date/Time: 6/11/21 1220 Temp. 60.0 °C

Client/Project: Ouray 002A/OS621 -002A

Analyst: KG

CONTROLS & REPLICATE	Larvae Wt. (g.)	# FISH		MEAN WT Weight/Surviving Fish/Rep (mg)	MEAN WT Mean Weight/Surv. Fish (mg) ± SD	GROWTH Weight/Fish Exposed/Rep (mg.)	GROWTH Mean Wt/fish exp (mg) ± SD
		BEGIN	END				
0	A	0.00350	10	8	0.438	0.441 ± 0.037	0.350
	B	0.00445	10	9	0.494		0.445
	C	0.00423	10	10	0.423		0.423
	D	0.00409	10	10	0.409		0.409
	A						
	B						
	C						
	D						
CONCENTRATION & REPLICATE	Larvae Wt. (g.)	# Fish Begin		GROWTH Weight/Fish Exposed/Rep (mg.)		GROWTH Mean Weight/Fish Exposed (mg) ± SD	
23	A	0.00431	10		0.431	0.447 ± 0.031	
	B	0.00419	10		0.419		
	C	0.00447	10		0.447		
	D	0.00490	10		0.490		
45	A	0.00449	10		0.449	0.453 ± 0.010	
	B	0.00447	10		0.447		
	C	0.00468	10		0.468		
	D	0.00448	10		0.448		
89	A	0.00568	10		0.568	0.500 ± 0.059	
	B	0.00523	10		0.523		
	C	0.00477	10		0.477		
	D	0.00432	10		0.432		
95	A	0.00491	10		0.491	0.488 ± 0.012	
	B	0.00502	10		0.502		
	C	0.00487	10		0.487		
	D	0.00472	10		0.472		
100	A	0.00411	10		0.411	0.434 ± 0.044	
	B	0.00496	10		0.496		
	C	0.00396	10		0.396		
	D	0.00434	10		0.434		

Data Checked and Approved by Laboratory Manager (Initials): AK

CETIS Summary Report

Higher NOEL

Report Date: 17 Jun-21 15:05 (p 1 of 1)
Test Code/ID: 75EF2B2A / 19-7860-8426

Ceriodaphnia 7-d Survival and Reproduction Test

GEI Consultants, Inc

Batch ID: 07-9662-1213	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 03 Jun-21 11:00	Protocol: EPA/821/R-02-013 (2002)	Diluent: Mod-Hard Synthetic Water
Ending Date: 09 Jun-21 10:45	Species: Ceriodaphnia dubia	Brine:
Test Length: 6d	Taxon: Branchiopoda	Source: In-House Culture Age:
Sample ID: 01-6728-9015	Code: OS621-002A	Project: WET Quarterly Compliance Test (2Q)
Sample Date: 02 Jun-21 11:15	Material: Mining Effluent	Source: NPDES Permit #CO-0000003
Receipt Date: 03 Jun-21 08:30	CAS (PC):	Station: 002A
Sample Age: 24h (0 °C)	Client: Ouray Silver Mines	

Multiple Comparison Summary

Analysis ID	Endpoint	Comparison Method	✓	NOEL	LOEL	TOEL	TU	PMSD	S
14-4762-4740	6d Survival Rate	Fisher Exact/Bonferroni-Holm Test		100	>100	n/a	1	n/a	1
11-7164-3849	Reproduction	Steel Many-One Rank Sum Test		100	>100	n/a	1	10.3%	1

Point Estimate Summary

Analysis ID	Endpoint	Point Estimate Method	✓	Level	%	95% LCL	95% UCL	TU	S
09-6655-7518	6d Survival Rate	Linear Interpolation (ICPIN)		EC5	>100	n/a	n/a	<1	1
				EC10	>100	n/a	n/a	<1	
			✓	EC15	>100	n/a	n/a	<1	
			✓	EC20	>100	n/a	n/a	<1	
			✓	EC25	>100	n/a	n/a	<1	
			✓	EC40	>100	n/a	n/a	<1	
			✓	EC50	>100	n/a	n/a	<1	
14-3210-2187	Reproduction	Linear Interpolation (ICPIN)	✓	IC5	44.08	29.34	72.74	2.268	1
			✓	IC10	87.71	41.2	n/a	1.14	
			✓	IC15	>100	n/a	n/a	<1	
			✓	IC20	>100	n/a	n/a	<1	
			✓	IC25	>100	n/a	n/a	<1	
			✓	IC40	>100	n/a	n/a	<1	
			✓	IC50	>100	n/a	n/a	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits		Overlap	Decision
				Lower	Upper		
11-7164-3849	Reproduction	Control Resp	45.7	15	>>	Yes	Passes Criteria
14-3210-2187	Reproduction	Control Resp	45.7	15	>>	Yes	Passes Criteria
11-7164-3849	Reproduction	PMSD	0.1027	0.13	0.47	Yes	Below Criteria

6d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
23		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
45		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
89		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
95		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
100		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%

Reproduction Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	10	45.7	43.7	47.7	43	51	0.8825	2.791	6.11%	0.00%
23		10	46.3	44.42	48.18	41	50	0.8307	2.627	5.67%	-1.31%
45		10	43.6	38.41	48.79	27	52	2.296	7.26	16.65%	4.60%
89		10	40.1	37.33	42.87	34	44	1.224	3.872	9.65%	12.25%
95		10	42.3	40.01	44.59	38	48	1.012	3.199	7.56%	7.44%
100		10	41.6	37.47	45.73	32	48	1.827	5.777	13.89%	8.97%

CETIS Summary Report

Lower NOEL

Report Date: 17 Jun-21 15:06 (p 1 of 1)
Test Code/ID: 75EF2B2A / 19-7860-8426

Ceriodaphnia 7-d Survival and Reproduction Test

GEI Consultants, Inc

Batch ID: 07-9662-1213	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 03 Jun-21 11:00	Protocol: EPA/821/R-02-013 (2002)	Diluent: Mod-Hard Synthetic Water
Ending Date: 09 Jun-21 10:45	Species: Ceriodaphnia dubia	Brine:
Test Length: 6d	Taxon: Branchiopoda	Source: In-House Culture Age:
Sample ID: 01-6728-9015	Code: OS621-002A	Project: WET Quarterly Compliance Test (2Q)
Sample Date: 02 Jun-21 11:15	Material: Mining Effluent	Source: NPDES Permit #CO-0000003
Receipt Date: 03 Jun-21 08:30	CAS (PC):	Station: 002A
Sample Age: 24h (0 °C)	Client: Ouray Silver Mines	

Multiple Comparison Summary

Analysis ID	Endpoint	Comparison Method	✓ NOEL	LOEL	TOEL	TU	PMSD	S
14-4762-4740	6d Survival Rate	Fisher Exact/Bonferroni-Holm Test	100	>100	n/a	1	n/a	1
08-9932-8129	Reproduction	Steel Many-One Rank Sum Test	45	89	63.29	2.222	10.3%	1

Point Estimate Summary

Analysis ID	Endpoint	Point Estimate Method	✓ Level	%	95% LCL	95% UCL	TU	S
09-6655-7518	6d Survival Rate	Linear Interpolation (ICPIN)	✓ EC5	>100	n/a	n/a	<1	1
			EC10	>100	n/a	n/a	<1	
			✓ EC15	>100	n/a	n/a	<1	
			✓ EC20	>100	n/a	n/a	<1	
			✓ EC25	>100	n/a	n/a	<1	
			✓ EC40	>100	n/a	n/a	<1	
			✓ EC50	>100	n/a	n/a	<1	
14-3210-2187	Reproduction	Linear Interpolation (ICPIN)	✓ IC5	44.08	29.34	72.74	2.268	1
			✓ IC10	87.71	41.2	n/a	1.14	
			✓ IC15	>100	n/a	n/a	<1	
			✓ IC20	>100	n/a	n/a	<1	
			✓ IC25	>100	n/a	n/a	<1	
			✓ IC40	>100	n/a	n/a	<1	
			✓ IC50	>100	n/a	n/a	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits		Overlap	Decision
				Lower	Upper		
08-9932-8129	Reproduction	Control Resp	45.7	15	>>	Yes	Passes Criteria
14-3210-2187	Reproduction	Control Resp	45.7	15	>>	Yes	Passes Criteria
08-9932-8129	Reproduction	PMSD	0.1027	0.13	0.47	Yes	Below Criteria

6d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
23		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
45		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
89		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
95		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
100		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%

Reproduction Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	10	45.7	43.7	47.7	43	51	0.8825	2.791	6.11%	0.00%
23		10	46.3	44.42	48.18	41	50	0.8307	2.627	5.67%	-1.31%
45		10	43.6	38.41	48.79	27	52	2.296	7.26	16.65%	4.60%
89		10	40.1	37.33	42.87	34	44	1.224	3.872	9.65%	12.25%
95		10	42.3	40.01	44.59	38	48	1.012	3.199	7.56%	7.44%
100		10	41.6	37.47	45.73	32	48	1.827	5.777	13.89%	8.97%

CETIS Summary Report

Report Date: 17 Jun-21 15:17 (p 1 of 1)
Test Code/ID: 3BBF3856 / 10-0238-7542

Fathead Minnow 7-d Larval Survival and Growth Test

GEI Consultants, Inc

Batch ID: 08-3455-4791	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 03 Jun-21 11:40	Protocol: EPA/821/R-02-013 (2002)	Diluent: Mod-Hard Synthetic Water
Ending Date: 10 Jun-21 10:50	Species: Pimephales promelas	Brine:
Test Length: 6d 23h	Taxon: Actinopterygii	Source: Aquatic Biosystems, CO Age:
Sample ID: 10-4836-8894	Code: OS621-002A	Project: WET Quarterly Compliance Test (2Q)
Sample Date: 02 Jun-21 11:15	Material: Mining Effluent	Source: NPDES Permit #CO-0000003
Receipt Date: 03 Jun-21 08:30	CAS (PC):	Station: 002A
Sample Age: 24h (0 °C)	Client: Ouray Silver Mines	

Multiple Comparison Summary

Analysis ID	Endpoint	Comparison Method	✓	NOEL	LOEL	TOEL	TU	PMSD	S
07-4851-7583	7d Survival Rate	Dunnett Multiple Comparison Test		100	>100	n/a	1	14.5%	1
06-2317-9478	Mean Dry Biomass-mg	Dunnett Multiple Comparison Test		100	>100	n/a	1	15.5%	1

Point Estimate Summary

Analysis ID	Endpoint	Point Estimate Method	✓	Level	%	95% LCL	95% UCL	TU	S
17-9776-1371	7d Survival Rate	Linear Interpolation (ICPIN)		EC5	>100	n/a	n/a	<1	1
				EC10	>100	n/a	n/a	<1	
				EC15	>100	n/a	n/a	<1	
				EC20	>100	n/a	n/a	<1	
				EC25	>100	n/a	n/a	<1	
				EC40	>100	n/a	n/a	<1	
				EC50	>100	n/a	n/a	<1	
01-9257-6449	Mean Dry Biomass-mg	Linear Interpolation (ICPIN)		IC5	99.65	95.45	n/a	1.004	1
				IC10	>100	n/a	n/a	<1	
				IC15	>100	n/a	n/a	<1	
				IC20	>100	n/a	n/a	<1	
				IC25	>100	n/a	n/a	<1	
				IC40	>100	n/a	n/a	<1	
				IC50	>100	n/a	n/a	<1	

Test Acceptability

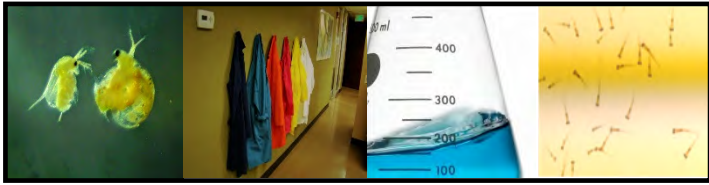
Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits			Overlap	Decision
				Lower	Upper			
07-4851-7583	7d Survival Rate	Control Resp	0.925	0.8	>>		Yes	Passes Criteria
17-9776-1371	7d Survival Rate	Control Resp	0.925	0.8	>>		Yes	Passes Criteria
01-9257-6449	Mean Dry Biomass-mg	Control Resp	0.4068	0.25	>>		Yes	Passes Criteria
06-2317-9478	Mean Dry Biomass-mg	Control Resp	0.4068	0.25	>>		Yes	Passes Criteria
06-2317-9478	Mean Dry Biomass-mg	PMSD	0.155	0.12	0.3		Yes	Passes Criteria

7d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	4	0.9250	0.7727	1.0000	0.8000	1.0000	0.0479	0.0957	10.35%	0.00%
23		4	0.9500	0.7909	1.0000	0.8000	1.0000	0.0500	0.1000	10.53%	-2.70%
45		4	0.9500	0.8581	1.0000	0.9000	1.0000	0.0289	0.0577	6.08%	-2.70%
89		4	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	-8.11%
95		4	0.9250	0.7727	1.0000	0.8000	1.0000	0.0479	0.0957	10.35%	0.00%
100		4	0.9750	0.8954	1.0000	0.9000	1.0000	0.0250	0.0500	5.13%	-5.41%

Mean Dry Biomass-mg Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	4	0.4068	0.3421	0.4714	0.35	0.445	0.02032	0.04063	9.99%	0.00%
23		4	0.447	0.3979	0.4961	0.419	0.49	0.01543	0.03087	6.90%	-9.90%
45		4	0.453	0.437	0.469	0.447	0.468	0.005017	0.01003	2.21%	-11.37%
89		4	0.5	0.4067	0.5933	0.432	0.568	0.02931	0.05861	11.72%	-22.93%
95		4	0.488	0.4683	0.5077	0.472	0.502	0.006205	0.01241	2.54%	-19.98%
100		4	0.4343	0.3642	0.5043	0.396	0.496	0.02202	0.04403	10.14%	-6.76%



Whole Effluent Toxicity Testing Report

Ouray Silver Mines Inc.

Submitted to:

Briana Greer

Solid Solution Geosciences, LLC

105 Meadow Estates Drive

Ridgeway, CO 81432

Submitted by:

GEI Consultants, Inc.

Ecological Division

4601 DTC Boulevard, Suite 900

Denver, CO 80237

October 22, 2021

Project 2004862

Report prepared by: MH



1.0 Test Summary

Enclosed are the results of the chronic *Ceriodaphnia dubia* and *Pimephales promelas* tests performed August 26 to September 1, 2021 and September 30 to October 7, 2021, respectively. Chronic toxicity test procedures followed the methods described in EPA documentation (EPA 2002) and CDPHE guidelines (CDPHE 1998). All chemistry measurements within this report (i.e., alkalinity, pH, dissolved oxygen, etc...) are support data for the WET tests and are not intended to be used as measurements for compliance purposes.

The *P. promelas* test was originally initiated August 26, 2021, however, the percent minimum significant difference (PMSD) of 35% was above the EPA required maximum value of 30%, indicating high variability in growth, therefore, the test was rescheduled to begin September 30, 2021.

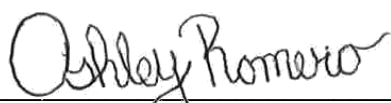
Surrogate chambers were included within the setup for the *C. dubia* test with temperatures taken daily. Temperatures on the final day of the test were taken in the test chambers. Daily temperatures were taken in the test chambers for the duration of the *P. promelas* test.

There were no significant effects in either test and control performance criteria were met.

Table 1: Test results summary based on instream waste concentration of 89% effluent.

Test Species	Survival		Reproduction/Growth	
	IC ₂₅	NOEC	IC ₂₅	NOEC
<i>C. dubia</i>	Pass	Pass	Pass	Pass
<i>P. promelas</i>	Pass	Pass	Pass	Pass

Report approved by:



Ashley Romero, Laboratory Manager



Natalie Love, Laboratory Director

2.0 Test Conditions

2.1 *Ceriodaphnia dubia* and *Pimephales promelas* 7-day toxicity tests to estimate chronic toxicity

Table 2: Summary of test conditions for chronic toxicity tests.

Parameter	Test Conditions	
Test species	<i>C. dubia</i>	<i>P. promelas</i>
Method	EPA-821-R-02-013 – Short-Term Methods for Estimating Chronic Toxicity...	
Sample collection procedure	Composite	
Sample collection dates	8/25/21, 8/27/21, 8/30/21	9/29/21, 10/2/21, 10/4/21
Dilution water	Moderately hard reconstituted water	
Test duration	Until at least 60% of control organisms release 3 broods	7 days
Age of organisms at start	<24 hours old	<24 hours old
Acclimation water	Moderately hard reconstituted water	N/A
Feeding	0.1 mL YCT/ 0.1 mL <i>Selenastrum</i> daily	0.15 mL <i>Artemia</i> nauplii 2 times per day
End Point	Mortality, normalized reproduction	Mortality, growth
Start date/time	8/26/21 11:55	9/30/21 12:40
End date/time	9/1/21 11:30	10/7/21 12:10
Type of exposure chamber	30 mL disposable plastic cup	14 oz. disposable plastic cup
Volume of exposure chamber	15 mL	250 mL
Number of organisms exposed/chamber	1	10
Number of replicates/treatment	10	4
Test temperature	25.1°C ± 1.2°C	24.6°C ± 1.1°C
EPA recommended temperature	25.0°C ± 1.0°C	25.0°C ± 1.0°C
Standard toxicant used	NaCl	NaCl
Aeration	N/A	None
CO ₂ atmosphere	None	None

3.0 QA/QC Summary

3.1 Sample QA/QC

Table 3: Sample QA/QC Summary.

QA Requirement	Yes	No	N/A	Note
Chain of Custody received	x			
Chain of Custody complete	x			
Custody Seal Intact	x			
Samples received within holding times	x			
Samples at correct temperature (0-6°C) or delivered the same day as samples were collected	x			
Samples used within 36 hours of collection	x			

3.2 Test Acceptability

Table 4: Control performance criteria requirements and test results by species.

Test Species	Survival		Reproduction/Growth		All Test Acceptability Criteria Met
	Test (%)	Acceptable (%)	Test (# or mg)	Acceptable (# or mg)	
<i>C. dubia</i>	100	≥ 80	40.1	≥ 15.0	Yes
<i>P. promelas</i>	100	≥ 80	0.428	≥ 0.250	Yes

3.3 Statistical QA/QC

Table 5: Calculated and allowable PMSD upper bounds per species and concentration-response curve evaluation.

Test Species	Calculated PMSD	EPA PMSD Upper Bound	PMSD Acceptable	Concentration-Response Curve Validity	
				Survival	Reproduction/Growth
<i>C. dubia</i>	24	47	Yes	Yes; Data approved	Yes; Data approved
<i>P. promelas</i>	20	30	Yes	Yes; Data approved	Yes; Data approved

3.4 Concentration-Response Figures

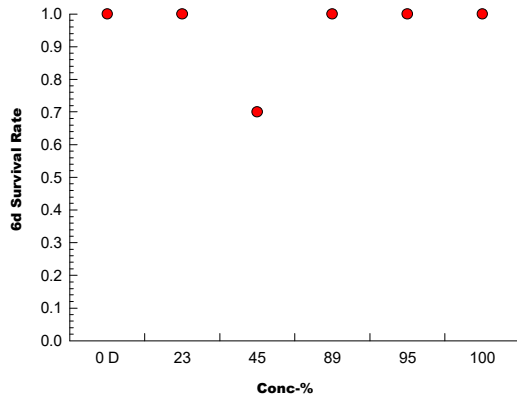


Figure 1: *C. dubia* survival

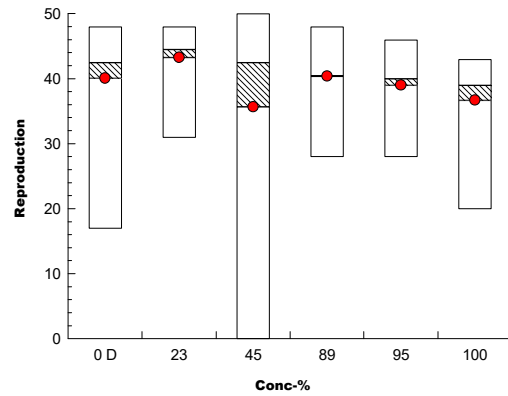


Figure 2: *C. dubia* reproduction

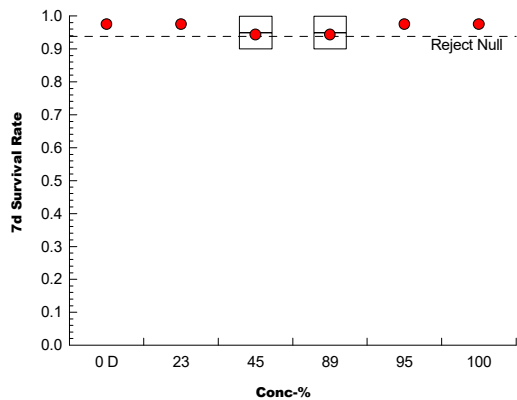


Figure 3: *P. promelas* survival

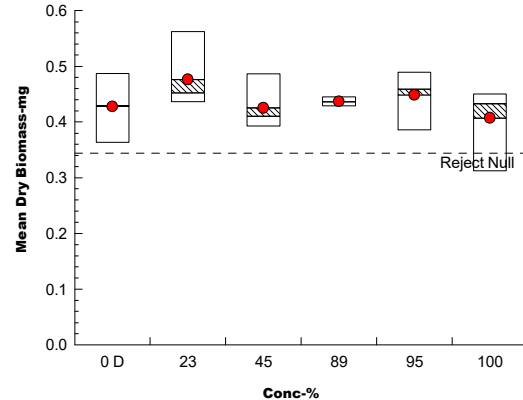


Figure 4: *P. promelas* growth

3.5 Reference Toxicant Summary

Table 6: Most recent reference toxicant test data summary per species.

Species	Test Initiation Date	Reproduction/Growth IC ₂₅ (95% CI)	Performance Range Last 20 Tests	Within Performance Range
<i>C. dubia</i>	8/5/2021	785.6 mg NaCl/L (260.7 to 1088.0)	547.1 to 1247.6	Yes
<i>P. promelas</i>	9/14/2021	1.72 g NaCl/L (1.33 to 2.06)	0.95 to 2.44	Yes

4.0 Results

4.1 Chronic Toxicity Test Results

Table 7: Summary results of *C. dubia* chronic toxicity test.

Client/Project	Ouray Silver Mines Inc.					
Test Date/Time	Start: 8/26/21 @ 11:55			End: 9/1/21 @ 11:30		
Treatment % Effluent	0	23	45	89	95	100
#alive/#exposed	10/10	10/10	7/10	10/10	10/10	10/10
% survival	100	100	70	100	100	100
Normalized repro / # females exposed $\pm$ SD	40.1 $\pm$ 9.5	43.3 $\pm$ 5.0	35.7 $\pm$ 16.9	40.4 $\pm$ 5.4	39.0 $\pm$ 5.5	36.7 $\pm$ 7.2
Operators	JW, JMS, AW, LAG, KH					
Statistical Analysis	NOEC			IC ₂₅ (95% C.I.)		
Survival	100% Effluent			>100% Effluent (unavailable)		
Normalized Reproduction	100% Effluent			>100% Effluent (unavailable)		

Table 8: Summary results of *P. promelas* chronic toxicity test.

Client/Project	Ouray Silver Mines Inc.					
Test Date/Time	Start: 9/30/21 @ 12:40			End: 10/7/21 @ 12:10		
Treatment % Effluent	0	23	45	89	95	100
#alive/#exposed	40/40	40/40	38/40	38/40	40/40	40/40
% survival	100	100	95	95	100	100
Dry weight (mean wt. (mg) / #exposed $\pm$ SD)	0.428 $\pm$ 0.055	0.477 $\pm$ 0.058	0.426 $\pm$ 0.043	0.437 $\pm$ 0.008	0.449 $\pm$ 0.047	0.408 $\pm$ 0.064
Operators	JW, TE, AW, JMS, MH					
Statistical Analysis	NOEC			IC ₂₅ (95% C.I.)		
Survival	100% Effluent			>100% Effluent (unavailable)		
Growth	100% Effluent			>100% Effluent (unavailable)		

4.2 Water Chemistry Results from Samples Received for Chronic Toxicity Tests

Table 9: Wet chemistry on reconstituted water and effluent samples for *C. dubia* test.

Measurement	MH Recon Water*	100% Effluent Received 8/26/21	100% Effluent Received 8/28/21	100% Effluent Received 8/31/21
Analysis Temperature (°C)	25.0	25.0	25.0	25.0
Total Hardness (mg CaCO ₃ /L)	96	134	130	128
pH (SU)	8.3	7.8	8.2	8.0
Alkalinity (mg CaCO ₃ /L)	71	72	64	70
Conductivity (µmho/cm)	306	300	303	308
Total Dissolved Solids Calculated from Conductivity (mg/L)	--	147	148	151
Dissolved Oxygen (mg/L)	7.5	8.1	8.0	7.8
Ammonia as N (mg NH ₃ /L)	--	0.09	0.05	0.03
Un-ionized Ammonia (mg NH ₃ /L)	--	<0.10	<0.10	<0.10
Total Residual Chlorine (mg/L)	--	0.04	<0.02	<0.02

*Represents an average of two reconstituted waters used.

Table 10: Wet chemistry on reconstituted water and effluent samples for *P. promelas* test.

Measurement	MH Recon Water*	100% Effluent Received 9/30/21	100% Effluent Received 10/2/21	100% Effluent Received 10/5/21
Analysis Temperature (°C)	25.0	25.0	25.0	25.0
Total Hardness (mg CaCO ₃ /L)	91	138	140	144
pH (SU)	8.4	8.3	8.7	8.4
Alkalinity (mg CaCO ₃ /L)	66	68	72	66
Conductivity (µmho/cm)	312	337	343	175
Total Dissolved Solids Calculated from Conductivity (mg/L)	--	165	168	86
Dissolved Oxygen (mg/L)	7.3	9.4	9.0	9.2
Ammonia as N (mg NH ₃ /L)	--	0.01	0.01	0.04
Un-ionized Ammonia (mg NH ₃ /L)	--	<0.10	<0.10	<0.10
Total Residual Chlorine (mg/L)	--	0.03	0.02	0.06

*Represents an average of two reconstituted waters used.

5.0 References

Colorado Department of Public Health and Environment (CDPHE). 1998. Water Quality Control Division. Laboratory guidelines for conducting whole effluent toxicity tests. Denver, Colorado.

Tidepool Scientific Software. 2000-2018. CETIS - Comprehensive Environmental Toxicity Information System. V1.9.5.5. McKinleyville, CA.

U.S. Environmental Protection Agency (EPA). 2002. Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms. EPA-821-R-02-013. Office of Water, Washington D.C.

Appendix A

Colorado CDPS WET test report forms

COLORADO – CDPS WET TEST REPORT FORM – CHRONIC

PERMITEE NAME: Ouray Silver Mines Inc.

CDPS NO: CO-0000003

OUTFALL: 002A

TYPE TEST: ROUTINE ☒

ACCELERATED

TEST SPECIES: Ceriodaphnia dubia

Test Results:

Lethality

Growth

Reproduction

CONC. WITH STAT. DIFFERENCE	>100%	NA	>100%
PASS/FAIL	PASS	NA	PASS
NOEC	100%	NA	100%
PASS/FAIL	PASS	NA	PASS
IC ₂₅	>100%	NA	>100%
PASS/FAIL	PASS	NA	PASS

STAT. METHOD USED: STATISTICAL DIFF.:

NOEC, LC₅₀

IC₂₅

ICp METHOD

TEST DATE/TIME: START

8/26/21 11:55

END

9/1/21 11:30

DILUTIONS (%EFFLUENT)

	CONTROL	23%	45%	89%	95%	100%
% SURVIVAL FOR DAY: 1	100	100	100	100	100	100
2	100	100	100	100	100	100
3	100	100	90	100	100	100
4	100	100	80	100	100	100
5	100	100	80	100	100	100
6	100	100	70	100	100	100
MEAN 3 BROOD TOTAL:	40.1	43.3	35.7	40.4	39.0	36.7
7 DAY MEAN DRY WEIGHT:						
pH MAX/MIN:	8.4/8.2	8.4/8.2	8.4/8.2	8.4/8.2	8.4/8.2	8.4/8.2

MEAN HARDNESS (mg/L) RECEIVING WATER: NA EFFLUENT: 131 RECON WATER: 96

MEAN ALKALINITY (mg/L) RECEIVING WATER: NA EFFLUENT: 69 RECON WATER: 71

MEAN T. AMMONIA as N (mg/L) INITIAL EFFLUENT: 0.06 FINAL EFFLUENT: NA

MEAN T. RESIDUAL CHLORINE (mg/L) 100%: 0.02 RECEIVING WATER USED FOR DILUTIONS? (Y/N) N

WERE ALL TEST CONDITIONS IN CONFORMANCE WITH DIVISION GUIDELINES? (Y/N) Y

IF NO, LIST DEVIATIONS FROM TEST SPECIFICATIONS:

ANALYST: Michael Hendricks

SIGNATURE: 

LABORATORY: GEI Consultants, Inc./Ecological Division

DATE: 10/15/21

COMMENTS:

COLORADO – CDPS WET TEST REPORT FORM – CHRONIC

PERMITEE NAME: Ouray Silver Mines Inc.

CDPS NO: CO-0000003

OUTFALL: 002A

TYPE TEST: ROUTINE ☒

ACCELERATED

TEST SPECIES: Pimephales promelas

Test Results:

Lethality

Growth

Reproduction

CONC. WITH STAT. DIFFERENCE	>100%	>100%	NA
PASS/FAIL	PASS	PASS	NA
NOEC	100%	100%	NA
PASS/FAIL	PASS	PASS	NA
IC ₂₅	>100%	>100%	NA
PASS/FAIL	PASS	PASS	NA

STAT. METHOD USED: STATISTICAL DIFF.:

NOEC, LC₅₀

IC₂₅

ICp METHOD

TEST DATE/TIME: START

9/30/21 12:40

END

10/7/21 12:10

DILUTIONS (%EFFLUENT)

	CONTROL	23%	45%	89%	95%	100%
% SURVIVAL FOR DAY: 1	100	100	100	100	100	100
2	100	100	100	100	100	100
3	100	100	97.5	100	100	100
4	100	100	97.5	100	100	100
5	100	100	95	100	100	100
6	100	100	95	95	100	100
7	100	100	95	95	100	100
MEAN 3 BROOD TOTAL:						
7 DAY MEAN DRY WEIGHT:	0.428	0.477	0.426	0.437	0.449	0.408
pH MAX/MIN:	7.9/7.8	8.0/7.7	7.9/7.7	8.0/7.6	8.0/7.6	8.1/7.6

MEAN HARDNESS (mg/L) RECEIVING WATER: NA EFFLUENT: 141 RECON WATER: 91

MEAN ALKALINITY (mg/L) RECEIVING WATER: NA EFFLUENT: 69 RECON WATER: 66

MEAN T. AMMONIA as N (mg/L) INITIAL EFFLUENT: 0.02 FINAL EFFLUENT: NA

MEAN T. RESIDUAL CHLORINE (mg/L) 100%: 0.04 RECEIVING WATER USED FOR DILUTIONS? (Y/N) N

WERE ALL TEST CONDITIONS IN CONFORMANCE WITH DIVISION GUIDELINES? (Y/N) Y

IF NO, LIST DEVIATIONS FROM TEST SPECIFICATIONS:

ANALYST: Michael Hendricks

SIGNATURE: 

LABORATORY: GEI Consultants, Inc./Ecological Division

DATE: 10/15/21

COMMENTS:

Appendix B

Chain-of-custody forms and laboratory bench sheets from whole effluent toxicity tests

BIOASSAY LABORATORY CHAIN-OF-CUSTODY

(GEI Use) Log Number

05821-DOZA-1

[illegible]

BIOASSAY LABORATORY CHAIN-OF-CUSTODY

(GEI Use) Log Number

05821-DD2A-1

CLIENT/PROJECT <u>Duray Silver Mines Inc</u>		TESTS REQUIRED		CHLORINE Measured by: Client ☐ Lab ☒	COMMENTS:		
ADDRESS <u>PO Box 564</u>		ACUTE					
CITY <u>Duray</u> STATE <u>CO</u> ZIP <u>81427</u>		CHRONIC					
PHONE # <u>970-325-9830</u>		C E R T C F A L D I E H P A L A P A A E N I A A G A T U O I H A E H O O E E E N D A D A N I A					
PROJ. MANAGER <u>Todd Tesse</u> SAMPLER <u>Toshua Moore</u>							
SAMPLE TYPE/SITE <u>OF 002A</u>	Composite	Grab	Date Collected <u>8/25/21</u>	Time Collected <u>13:25-13:47</u>	TRC (mg/L) <u>0.04</u>	Date/Time Measured <u>8/26/21 9:50</u>	
PROJECT INFORMATION		LABORATORY RECEIVING INFORMATION					
CLIENT DROP OFF: ☐	CONDITION OF SAMPLE ON RECEIPT: <u>Good</u>						
COURIER:	CUSTODY SEAL INTACT?: YES ☒ NO ☐ N/A ☐						
UPS ☒ FEDEX ☐ OTHER ☐	TEMPERATURE (°C): <u>6.0°C</u>						
TOTAL NUMBER OF CONTAINERS: <u>3</u>	TEMPERATURE IN RANGE (0-6°C): YES ☒ NO ☐ IF NOT IN RANGE, SAMPLED SAME DAY, TEMP OK?: YES ☒ NO ☐						
COMMENTS:		CLIENT RELINQUISHED BY: <u>Toshua Moore</u>		LABORATORY RECEIVED BY: <u>[Signature]</u>			
		DATE/TIME: <u>8/25/2021 14:40</u>					
		DATE/TIME: <u>8/26/21 9:40</u>					

GEI Consultants, Inc./Ecological Division
4601 DTC BLVD., SUITE L100
DENVER, CO 80237
Main: (303) 662-0100 Lab: (303) 264-1120

(GEI Use) Log Number

OS921-0024-1

BIOASSAY LABORATORY CHAIN-OF-CUSTODY

CLIENT/PROJECT <u>Duray Silver Mines, MET Test</u> ADDRESS <u>P.O. Box 564</u> CITY <u>Duray</u> STATE <u>CO</u> ZIP <u>81427</u> PHONE # <u>970-325-9830</u> PROJ. MANAGER <u>Todd Tesse</u> SAMPLER <u>Joshua Moore</u>		TESTS REQUIRED ACUTE CHRONIC C E F D T C F A L D O A A A R E A G A I T P P O R T H A P O E H H U I O I H N D A A I A D A A I A		CHLORINE Measured by: Client ☐ Lab ☒	
SAMPLE TYPE/SITE <u>OF 0024</u>		Composite ☐ Grab ☒	Date Collected <u>9/29/21</u> Time Collected <u>12:45-12:50</u>	TRC (mg/L) <u>0.03</u> Date/Time Measured <u>9/30/21 1045</u>	COMMENTS:
PROJECT INFORMATION					
CLIENT DROP OFF: ☐ COURIER: ☐ UPS ☒ FEDEX ☐ OTHER ☐		CONDITION OF SAMPLE ON RECEIPT: <u>good</u>			
TOTAL NUMBER OF CONTAINERS: <u>2</u>		CUSTODY SEAL INTACT?: YES ☒ NO ☐ N/A ☐			
COMMENTS: <u>Collected with dedicated d.p sampler.</u> <u>gan</u>		LABORATORY RECEIVED BY: <u>Joshua Moore</u> DATE/TIME: <u>9/29/21 13:05</u>			
COMMENTS:		LABORATORY RECEIVED BY: <u>Joshua Moore</u> DATE/TIME: <u>9/30/21 1015</u>			

BIOASSAY LABORATORY CHAIN-OF-CUSTODY

OS921-002A-1

[illegible]

GEI Consultants, Inc./Ecological Division
4601 DTC BLVD., SUITE L100
DENVER, CO 80237
Main: (303) 662-0100 Lab: (303) 264-1120

(GEI Use) Log Number OS821-002A-2

BIOASSAY LABORATORY CHAIN-OF-CUSTODY

CLIENT/PROJECT <u>Curay Silver Mines Inc.</u>		TESTS REQUIRED		CHLORINE			
ADDRESS <u>P.O. Box 564</u>		ACUTE		Measured by: ☐			
CITY <u>Curay</u> STATE <u>CO</u> ZIP <u>81427</u>		CHRONIC		Client ☐			
PHONE # <u>970-325-9830</u>		C E R I O	F A D	T R O I O	F A L A D	Lab ☒	
PROJ. MANAGER <u>Todd Tesse</u> SAMPLER <u>Joshua Moore</u>		F A D	T R O I O	F A L A D			
SAMPLE TYPE/SITE	Composite	Grab	Date Collected	Time Collected	TRC (mg/L)	Date/Time Measured	COMMENTS:
<u>OF 002A</u>		<u>X</u>	<u>8/27/21</u>	<u>10:43</u>	<u>LO-02</u>	<u>8/28/21 850</u>	
PROJECT INFORMATION		LABORATORY RECEIVING INFORMATION					
CLIENT DROP OFF: ☐	CONDITION OF SAMPLE ON RECEIPT:	CLIENT RELINQUISHED BY <u>Joshua Moore</u>					
COURIER:	CUSTODY SEAL INTACT?: YES ☒ NO ☐ N/A ☐	DATE/TIME: <u>8/27/21</u> <u>12:05</u>					
UPS ☒ FEDEX ☐ OTHER ☐	TEMPERATURE (°C): <u>6.0</u>	LABORATORY RECEIVED BY: <u>Todd Tesse</u>					
TOTAL NUMBER OF CONTAINERS: <u>3</u>	TEMPERATURE IN RANGE (0-6°C): YES ☒ NO ☐ IF NOT IN RANGE, SAMPLED SAME DAY, TEMP OK?: YES ☐ NO ☐	DATE/TIME: <u>8/28/21</u> <u>805</u>					
COMMENTS:							

BIOASSAY LABORATORY CHAIN-OF-CUSTODY

OS 821002A-2

[illegible]

BIOASSAY LABORATORY CHAIN-OF-CUSTODY

234

(GEI Use) Log Number

OS921-2-002A-2

[illegible]

GEI Consultants, Inc./Ecological Division
4601 DTC BLVD., SUITE L100
DENVER, CO 80237
Main: (303) 662-0100 Lab: (303) 264-1120

(GEI Use) Log Number 05921-2nd CO2A-2

BIOASSAY LABORATORY CHAIN-OF-CUSTODY

CLIENT/PROJECT		TESTS REQUIRED		CHLORINE		
		ACUTE	CHRONIC			
CLIENT/PROJECT <u>Duray Silver Mines, WET Test</u>				Measured by: Client ☐ Lab ☒		
ADDRESS <u>P.O. Box 564</u>						
CITY <u>Duray</u> STATE <u>CO</u> ZIP <u>81427</u>				Date/Time Measured		
PHONE # <u>970-325-9830</u>						
PROJ. MANAGER <u>Todd Jesse</u> SAMPLER <u>Brian Borer</u>				COMMENTS:		
SAMPLE TYPE/SITE	Composite	Grab	Date Collected	Time Collected	TRC (mg/L)	
<u>OF 002A</u>		<u>X</u>	<u>10/2/21</u>	<u>10:45</u>	<u>0.02</u>	<u>10/2/21 1740</u>
PROJECT INFORMATION		LABORATORY RECEIVING INFORMATION				
CLIENT DROP OFF: <u>X</u>	CONDITION OF SAMPLE ON RECEIPT: <u>good</u>					
COURIER:	CUSTODY SEAL INTACT?: YES ☐ NO ☐ N/A <u>X</u>					
UPS ☐ FEDEX ☐ OTHER ☐						
TOTAL NUMBER OF CONTAINERS:	TEMPERATURE (°C): <u>3.0</u>					
	TEMPERATURE IN RANGE (0-6°C): YES <u>X</u> NO ☐					
	IF NOT IN RANGE, SAMPLED SAME DAY, TEMP OK?: YES ☐ NO ☐					
COMMENTS:		LABORATORY RECEIVED BY: <u>Michelle Winer</u>				
		DATE/TIME: <u>10/2/21</u> <u>1738</u>				

BIOASSAY LABORATORY CHAIN-OF-CUSTODY

05821-002A-3

CLIENT/PROJECT <u>Duray Silver Mines Inc</u>						TESTS REQUIRED								CHLORINE					
ADDRESS <u>P.O.Box 564</u>						ACUTE				CHRONIC				Measured by: Client ☐ Lab ☒					
CITY <u>Duray</u> STATE <u>CO</u> ZIP <u>81427</u>						C	F	D	T	C	F	A	A	D					
PHONE # <u>970-325-9830</u>						E	A	A	R	E	A	L	G	A					
PROJ. MANAGER <u>Todd Jesse</u> SAMPLER <u>Joshua Moore</u>						I	H	P	O	R	T	H	A	P					
						O	A	I		O	A	E	N	I					
SAMPLE TYPE/SITE	Composite	Grab	Date Collected	Time Collected											TRC (mg/L)	Date/Time Measured	COMMENTS:		
<u>OF002A</u>		X	<u>8/30/21</u>	<u>13:45-</u> <u>13:08</u>		X	X								<u>20.02</u>	<u>8/31/21 1000</u>			
PROJECT INFORMATION					LABORATORY RECEIVING INFORMATION														
CLIENT DROP OFF: ☐					CONDITION OF SAMPLE ON RECEIPT: <u>good</u>														
COURIER:					CUSTODY SEAL INTACT?: YES ☒ NO ☐ N/A ☐														
UPS ☒ FEDEX ☐ OTHER ☐																			
TOTAL NUMBER OF CONTAINERS: <u>3</u>					TEMPERATURE (°C): <u>6.0</u> TEMPERATURE IN RANGE (0-6°C): YES ☒ NO ☐ IF NOT IN RANGE, SAMPLED SAME DAY, TEMP OK?: YES ☐ NO ☐														
COMMENTS: <u>Law Anti-Herd</u>					CLIENT RELINQUISHED BY: <u>Joshua Moore</u>					DATE/TIME: <u>8/30/21</u> <u>13:45</u>					LABORATORY RECEIVED BY: <u>[Signature]</u>				
					DATE/TIME: <u>8/31/21</u> <u>9:45</u>														

OS921-6024-3

BIOASSAY CHAIN-OF-CUSTODY

[illegible]

(GEI Use) Log Number

05921-0024-3

BIOASSAY LABORATORY CHAIN-OF-CUSTODY

[illegible]

1300 Blue Spruce Drive, Suite C
Fort Collins, Colorado 80524



Toll Free: 800/331-5916
Tel: 970/484-5091 Fax: 970/484-2514

05921-002A

ORGANISM HISTORY

DATE: 9/27/2021

SPECIES: *Pimephales promelas*

AGE: N/A

LIFE STAGE: Embryo

HATCH DATE: 9/27/2021

BEGAN FEEDING: N/A

FOOD: N/A

Water Chemistry Record:

	Current	Range
TEMPERATURE:	25°C	--
SALINITY/CONDUCTIVITY:	--	--
TOTAL HARDNESS (as CaCO ₃):	112 mg/l	--
TOTAL ALKALINITY (as CaCO ₃):	90 mg/l	--
pH:	7.66	--

Comments:

Facility Supervisor

INITIAL CHEMISTRY BENCH SHEET

Client/Project: Ouray 002A/OS 821 -002A

Samples Received: Date/Time 8/26/21 940

Test Substance: Effluent 002A What test/s will samples be used in? Ch C/F Dilution Water lab water or receiving water

SAMPLE TYPE LOG NUMBER DATE COLLECTED	DATE/TIME ANALYZED	DATES USED	ANALYSES TEMP. (°C)	TOTAL HARDNESS (mg/L)	pH (SU)	TOTAL ALKALINITY (mg/L)	D.O. (mg/L)	COND. (µS)	TDS CALCULATED FROM COND. (mg/L)	TRC (mg/L)	AMMONIA AS N (mg/L)	METER USED	ANALYST
Effluent 05821-002A-1 8/25/21	8/26/21 1000	8/26/21 8/27/21	25.0	134	7.8	72	8.1	300	147	0.04	0.09	1	ISH JN
Effluent 05821-002A-2 8/27/21	8/28/21 950	8/28/21 8/30/21	25.0	130	8.2	64	8.0	303	148	0.02	0.05	1	WV
Effluent 05821-002A-3 8/30/21	8/31/21 1020	8/31/21 9/1/21	25.0	128	8.0	70	7.8	308	151	0.02	0.03	1	JMS
Average			25.0	131	8.0	69	8.0	304	149	0.02	0.06		

Site Daily Measurements	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7					
pH/initials	7.8/ISH	8.3/HC	8.2/WV	8.2/WV	8.2/ISH	8.2/WV	8.0/ASH	7.9/WV					
pH/initials													
pH/initials													
pH/initials													

COMMENTS:

Samples stored in refrigerator: N Data Checked and Approved by Laboratory Manager (Initials): AR

INITIAL CHEMISTRY BENCH SHEET

Client/Project: Ouray 002A/OS921 - 002A

Samples Received: Date/Time 9/30/21 11:00 AM 10/5

Test Substance: Effluent 002A

What test/s will samples be used in?

Ch F

Dilution Water: lab water for receiving water

SAMPLE TYPE LOG NUMBER DATE COLLECTED	DATE/TIME ANALYZED	DATES USED	ANALYSES TEMP. (°C)	TOTAL HARDNESS (mg/L)	pH (SU)	TOTAL ALKALINITY (mg/L)	D.O. (mg/L)	COND. (µs)	TDS CALCULATED FROM COND. (mg/L)	TRC (mg/L)	AMMONIA AS N (mg/L)	METER USED	ANALYST
Effluent 05921-002A-1 9/29/21	9/30/21 3:05 PM	9/30/21 10/2/21	25.0	6.9 138	8.3	3.4 68	9.4	337	105	0.03	0.018 MA	1	kt
Effluent 05921-002A-2 10/2/21	10/3/21 635	10/3/21 10/11/21	25.0	7.0 146	8.7	3.6 72	9.0	343	168	0.02	0.01	1	TE
Effluent 05921-002A-3 10/5/21	10/5/21 1100	10/5/21 10/6/21	25.0	7.2 144	8.4	3.3 60	9.2	175	154 86	0.06	0.04	1	ISM
Average			25.0	141	8.5	69	9.2	285	140	0.04	0.02		

Site Daily Measurements	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7					
pH/initials	8.3/kt	8.6/TE	8.6/TE	8.7/TE	★	8.4/ISM	8.8/kt						
pH/initials													
pH/initials													
pH/initials													

COMMENTS: ★ Temp error not recorded

Samples stored in refrigerator: N

Data Checked and Approved by Laboratory Manager (Initials): AR

RECONSTITUTED SYNTHETIC LABORATORY WATER CHEMISTRY BENCH SHEET

Client/Project: Ouray 002A/OS 821 -002A

Test Substance: Effluent 002A

Analyst: AN

What test/s will samples be used in? Ch C/F

Test/s Start Date: 8/24/21

BATCH #	ANALYSES TEMP. (°C)	TOTAL HARDNESS (mg/L)	pH (SU)	TOTAL ALKALINITY (mg/L)	D.O. (mg/L)	COND. (µS)
MH195	25.0	92	8.3	70	7.3	303
MH182	25.0	100	8.3	72	7.7	309
AVERAGE VALUE	25.0	96	8.3	71	7.5	306

COMMENTS:

RECONSTITUTED SYNTHETIC LABORATORY WATER CHEMISTRY BENCH SHEET

Client/Project: Ouray 002A/OS921 - 002A

Test Substance: Effluent 002A

What test/s will
samples be used in? Ch F

Analyst: CH

Test/s Start Date: 9/30/21

BATCH #	ANALYSES TEMP. (°C)	TOTAL HARDNESS (mg/L)	pH (SU)	TOTAL ALKALINITY (mg/L)	D.O. (mg/L)	COND. (µS)
MH230	25.0	92	8.3	64	7.4	316
MH258	25.0	90	8.4	68	7.2	308
AVERAGE VALUE	25.0	91	8.4	66	7.3	312

COMMENTS:

CHRONIC TOXICITY CHEMISTRY BENCH SHEET

START Date: 8/26/21

FINISH Date: 9/01/21

Dilution Water: MH Recon

Test Substance: Effluent 002A

Client/Project: Ouray 002A/OS821 - 002A

Organism: C. dubia

Test Conc.	Chemical Parameter	Day of Test								COMMENTS
		1	2	3	4	5	6	7		
0	DO (mg/L)	6.4	6.4	6.4	6.8	7.8	6.9			
	Cond. (µS)	328	355	349	325	352	323			
	pH	8.3	8.4	8.3	8.4	8.3	8.2			
	Temp. (°C)	25.8	25.7	25.6	25.4	24.8	25.8			
23	DO (mg/L)	6.9	6.4	6.5	6.8	6.7	6.6			
	Cond. (µS)	323	342	340	323	348	324			
	pH	8.4	8.3	8.2	8.3	8.3	8.3			
	Temp. (°C)	25.6	25.4	25.4	25.1	24.6	25.5			
45	DO (mg/L)	6.9	6.4	6.4	6.8	6.7	6.6			
	Cond. (µS)	315	331	335	317	327	314			
	pH	8.4	8.3	8.2	8.4	8.3	8.2			
	Temp. (°C)	25.7	25.6	25.6	25.4	24.6	24.6			
89	DO (mg/L)	6.9	6.4	6.5	6.9	6.8	6.6			
	Cond. (µS)	304	321	326	314	322	307			
	pH	8.4	8.2	8.2	8.4	8.3	8.3			
	Temp. (°C)	26.2	25.3	24.8	25.5	24.5	24.0			
95	DO (mg/L)	6.9	6.4	6.5	6.9	6.8	6.7			
	Cond. (µS)	307	318	332	309	322	310			
	pH	8.4	8.3	8.2	8.4	8.3	8.3			
	Temp. (°C)	25.6	26.1	26.1	25.7	26.0	23.9			
100	DO (mg/L)	6.9	6.5	6.5	7.0	6.8	6.8			
	Cond. (µS)	304	321	334	318	316	307			
	pH	8.4	8.3	8.2	8.4	8.3	8.3			
	Temp. (°C)	25.8	25.3	25.4	24.3	25.4	24.1			
Incubator Temperature (°C)		25.5	25.5	25.0	25.5	25.5	25.5			Max: 26.2
Analyst		JMS	W	W	AW	LAG	W/LAG			Min: 23.9
Time Analyzed		1145	1255	1340	1110	1130	1230			Range: 2.3
Environmental Chamber		W	W	W	W	W	W			Mean: 25.1 ± 1.2
Meter Number		1	1	1	1	1	1			

Data Checked and Approved by Laboratory Manager (Initials): AR

CHRONIC TOXICITY CHEMISTRY BENCH SHEET

START Date: 9/30/21

FINISH Date: 10/7/21

Dilution Water: MH Recon

Test Substance: Effluent 002A

Client/Project: Ouray 002A/OS921 - 002A

Organism: P. promelas

Test Conc.	Chemical Parameter	Day of Test								COMMENTS
		1	2	3	4	5	6	7		
0	DO (mg/L)	6.0	5.3	5.5	5.7	5.5	5.1	5.5		
	Cond. (µS)	329	357	349	343	316	333	324		
	pH	7.9	7.8	7.8	7.9	7.9	7.8	7.9		
	Temp. (°C)	25.1	25.0	25.5	24.1	25.0	24.9	24.5		
23	DO (mg/L)	6.0	5.2	5.4	5.6	5.5	4.7	5.6		24.6
	Cond. (µS)	334	350	343	344	313	334	330		
	pH	8.0	7.8	7.8	7.9	7.9	7.7	7.9		
	Temp. (°C)	24.3	24.4	24.1	23.9	25.1	24.4	24.4		
45	DO (mg/L)	6.0	5.2	5.5	5.6	5.5	4.7	5.5		
	Cond. (µS)	332	350	343	346	316	337	332		
	pH	7.9	7.8	7.7	7.9	7.9	7.7	7.9		
	Temp. (°C)	24.7	24.6	25.7	24.0	24.4	24.3	24.5		
89	DO (mg/L)	6.0	5.5	5.6	5.2	5.2	4.6	5.1		
	Cond. (µS)	336	347	342	355	324	343	337		
	pH	8.0	7.9	7.8	7.8	7.8	7.6	7.8		
	Temp. (°C)	24.6	24.6	25.5	23.9	24.1	24.2	24.1		
95	DO (mg/L)	6.0	5.4	5.4	5.0	4.9	4.2	5.2		
	Cond. (µS)	339	345	340	352	323	344	336		
	pH	8.0	7.9	7.8	7.8	7.8	7.6	7.8		
	Temp. (°C)	24.5	24.7	24.6	23.5	23.6	23.8	24.3		
100	DO (mg/L)	6.1	5.6	5.5	5.0	5.0	4.0	5.0		
	Cond. (µS)	338	344	342	356	327	344	339		
	pH	8.1	7.9	7.9	7.8	7.8	7.6	7.8		
	Temp. (°C)	23.7	24.4	24.9	23.9	23.7	23.7	24.3		
Incubator Temperature (°C)		25.5	25.5	25.5	25.5	25.5	25.5	25.5		Max: 25.7
Analyst		TE	AW	TE	JMS	KH	JMS	KH		Min: 23.5
Time Analyzed		945	1505	905	1030	1545	1300	1210		Range: 2.2
Environmental Chamber		✓	✓	✓	✓	✓	✓	✓		Mean: 24.6 ± 1.1
Meter Number		1	1	1	1	1	1	1		

Data Checked and Approved by Laboratory Manager (Initials): AR

START Date/Time: 8/26/21 1155

FINISH Date/Time: 9/01/21 1230

Dilution Water: MH Recon

Test Substance: Effluent 002A

Client/Project: Ouray 002A/OS 821 -002A

Begun By: mw

Conc.	Day	Replicate										D.O. (mg/L)	Analyst	Time Renewed and Fed	NOTES:			
		A	B	C	D	E	F	G	H	I	J							
0	1	0									0	7.1	JMS	1045	Δ dead/underdeveloped neonates - number not counted			
	2	0									0	6.9	WV	1230				
	3	~~0~~	5	7	6	6	6	5	7	6	8	7.1	WV	1250				7
	4	0	8 ^Δ	11 ^Δ	14	14	17	11	13	0	0	7.8	AW	1015				
	5	14	0						0	17	16	7.3	LAG	1105				
	6	23	4	18	21	24	25	18	21	25	24	6.7	W	1130	Summarized Results:			
	7															# live adults	mean reprod. ± S.D.	norm. reprod. ± S.D.
	8																	
TOTALS		44	17	36	41	44	48	34	41	48	48					10	40.1 ± 9.5	40.1 ± 9.5

Conc.	Day	Replicate										D.O. (mg/L)	Analyst	NOTES:			
		A	B	C	D	E	F	G	H	I	J						
23	1	0									0	6.9	JMS	Δ Dead/underdeveloped neonates - number not counted			
	2	0									0	7.3	W				
	3	9	8	5	7	7	4	9	5	8	5	7.3	W				
	4	0	15	14	11	16	15	14	15	7	1	7.3	AW				
	5	15	0							0	16	7.2	UG				
	6	20	18	21	22	23	25	24	28	16	25	6.6	W	Summarized Results:			
	7															# live adults	normalized reproduction ± S.D.
	8																
TOTALS		44	41	40	45	46	44	47	48	31	47			10	43.3 ± 5.0		

Conc.	Day	Replicate										D.O. (mg/L)	Analyst	NOTES:	
		A	B	C	D	E	F	G	H	I	J				
45	1	0									0	7.0	Jm		
	2	0									0	7.4	W		
	3	6	9	8	8	0	9	8	7	16	6	7.4	W		
	4	1	0	14	16		15	15	17	14	18	7.1	AW		
	5	14		0	0		0			0	16	7.1	LG		
	6	23		24	13		19	19	26	24	2	6.5	W		
	7				1									# live adults	normalized reproduction $\pm$ S.D.
	8														
TOTALS		44	9	46	37	0	43	42	50	44	42			7	35.7 $\pm$ 16.9

Board Used	8/110A Cup								8/17A	
	23	29	32	34	35	36	37	38	30	39

Date/time adults isolated	8/25/21 1400
Date/time neonates harvested	8/25/21 1700

Data used for Statistical Analyses: 6 Day 7 Day 8 Day

Template number 6

Data Checked and Approved by Laboratory Manager (Initials): AR

START Date/Time: 8/26/21 1156

FINISH Date/Time: 9/01/21 1230

Dilution Water: MH Recon

Test Substance: Effluent 002A

Client/Project: Ouray 002A/OS 821 -002A

Begun By: mv

Conc.	Day	Replicate										D.O. (mg/L)	Analyst	Time Renewed and Fed	NOTES:
		A	B	C	D	E	F	G	H	I	J				
89	1	0									0	7.1	Jms	1045	
	2	0									0	7.7	WV	1230	
	3	4	6	6	7	8	7	7	7	5	8	7.5	WV	1250	
	4	0	0	14	14	16	15	13	13	0	0	7.1	AW	1015	
	5	12	0							0	13	7.4	WV	1105	
	6	24	22	24	17	24	16	20	21	24	22	6.8	WV	1130	
	7														
	8														
TOTALS		40	28	44	38	48	38	46	41	42	45				
														Summarized Results:	
														# live adults	normalized reproduction $\pm$ S.D.
														10	40.4 $\pm$ 5.4

Conc.	Day	Replicate										D.O. (mg/L)	Analyst	NOTES:	
		A	B	C	D	E	F	G	H	I	J				
95	1	0									0	7.4	Jms		
	2	0									0	7.8	WV		
	3	5	7	5	6	5	8	6	8	7	6	7.5	WV		
	4	2	15	14	14	0	12	16	0	11	15	7.1	AW		
	5	15	0		0	2	0	0	15	0	0	7.8 ^{mm}	LAG		
	6	18	23	21	18	21	23	24	17	14	17	6.8	rt		
	7													Summarized Results:	
	8														# live adults
TOTALS		40	45	40	38	28	43	46	40	22	38			10	39.0 $\pm$ 5.5

Conc.	Day	Replicate										D.O. (mg/L)	Analyst	NOTES:		
		A	B	C	D	E	F	G	H	I	J					
100	1	0									0	7.6	Jms			
	2	0									0	8.0	WV			
	3	6	6	6	7	6	6	7	5	6	5	7.2	WV			
	4	0	16	14	16	14	15	10	12	0	0	7.2	AW			
	5	12	8							16	12	7.2	WV			
	6	21	12	21	20	22	17	22	3	20	12	6.9	WV			
	7															
	8															
TOTALS		39	34	41	43	42	38	39	20	42	29				# live adults	normalized reproduction $\pm$ S.D.
														10	36.7 $\pm$ 7.2	

Board Used	8/16A Cup								8/17A	
	23	29	32	34	35	36	37	38	30	39

Date/time adults isolated	8/25/21	1400
Date/time neonates harvested	8/25/21	1700

Data used for Statistical Analyses: 6 Day 7 Day 8 Day

Template number 6

Data Checked and Approved by Laboratory Manager (Initials): AR

FATHEAD MINNOW 7-DAY CHRONIC TOXICITY TEST BENCH SHEET

START Date/Time: 9/30/21 1240

FINISH Date/Time: 10/7/21 1210

Dilution Water: MH Recon

Test Substance: Effluent 002A

Client/Project: Ouray 002A/OS921 - 002A

Begun By: WV

CONCENTRATION & REPLICATE	Number alive/day of test								#alive/ # exposed (% survival)	COMMENTS
	Start	1	2	3	4	5	6	7		
0	A	10	10	10	10	10	10	10	40/40 100%	
	B	10	10	10	10	10	10	10		
	C	10	10	10	10	10	10	10		
	D	10	10	10	10	10	10	10		
23	A	10	10	10	10	10	10	10	40/40 100%	
	B	10	10	10	10	10	10	10		
	C	10	10	10	10	10	10	10		
	D	10	10	10	10	10	10	10		
45	A	10	10	10	9	9	9	9	38/40 95%	
	B	10	10	10	10	10	10	10		
	C	10	10	10	10	10	10	10		
	D	10	10	10	10	10	9	9		
89	A	10	10	10	10	10	9	9	38/40 95%	
	B	10	10	10	10	10	10	10		
	C	10	10	10	10	10	10	10		
	D	10	10	10	10	10	9	9		
95	A	10	10	10	10	10	10	10	40/40 100%	
	B	10	10	10	10	10	10	10		
	C	10	10	10	10	10	10	10		
	D	10	10	10	10	10	10	10		
100	A	10	10	10	10	10	10	10	40/40 100%	
	B	10	10	10	10	10	10	10		
	C	10	10	10	10	10	10	10		
	D	10	10	10	10	10	10	10		
ANALYST	WV	TE	AW	TE	JMS	MH	MH	TE		
TIME FED AM	700	725	640	515	745	700	800	-		
TIME FED PM	1610	1610	1530	1530	1610	1615	1640	-		
TIME RENEWED	1240	950	1515	910	1445	1400	1305	1210		

Template Number 13

Data Checked and Approved by Laboratory Manager (Initials): AR

FATHEAD MINNOW 7-DAY CHRONIC TOXICITY WEIGHT BENCH SHEET

DRYING START Date/Time: 10/7/21 1245 Temp. 60.0 °C END Date/Time: 10/8/21 1245 Temp. 58.0 °C

Client/Project: Ouray 002A/OS921 - 002A

Analyst: TE

CONTROLS & REPLICATE	Larvae Wt. (g.)	# FISH		MEAN WT Weight/Surviving Fish/Rep (mg)	MEAN WT Mean Weight/Surv. Fish (mg) ± SD	GROWTH Weight/Fish Exposed/Rep (mg)	GROWTH Mean Wt/fish exp. (mg) ± SD
		BEGIN	END				
0	A	0.00405	10	10	0.405	0.428 ± 0.055	0.428 ± 0.055
	B	0.00488	10	10	0.488		
	C	0.00455	10	10	0.455		
	D	0.00364	10	10	0.364		
	A						
	B						
	C						
	D						
CONCENTRATION & REPLICATE	Larvae Wt. (g.)	# Fish Begin		GROWTH Weight/Fish Exposed/Rep (mg.)		GROWTH Mean Weight/Fish Exposed (mg) ± SD	
23	A	0.00448	10	10	0.448	0.477 ± 0.058	
	B	0.00437	10	10	0.437		
	C	0.00458	10	10	0.458		
	D	0.00563	10	10	0.563		
45	A	0.00398	10	10	0.398	0.426 ± 0.043	
	B	0.00393	10	10	0.393		
	C	0.00487	10	10	0.487		
	D	0.00424	10	10	0.424		
89	A	0.00440	10	10	0.440	0.437 ± 0.008	
	B	0.00446	10	10	0.446		
	C	0.00433	10	10	0.433		
	D	0.00429	10	10	0.429		
95	A	0.00490	10	10	0.490	0.449 ± 0.047	
	B	0.00479	10	10	0.479		
	C	0.00386	10	10	0.386		
	D	0.00440	10	10	0.440		
100	A	0.00451	10	10	0.451	0.408 ± 0.064	
	B	0.00313	10	10	0.313		
	C	0.00438	10	10	0.438		
	D	0.00428	10	10	0.428		

Data Checked and Approved by Laboratory Manager (Initials): AR

CETIS Summary Report

Report Date: 17 Sep-21 16:02 (p 1 of 1)

Test Code/ID: 6A6E562F / 17-8561-5919

Ceriodaphnia 7-d Survival and Reproduction Test

GEI Consultants, Inc

Batch ID: 02-2829-3437	Test Type: Reproduction-Survival (7d)	Analyst:
Start Date: 26 Aug-21 11:55	Protocol: EPA/821/R-02-013 (2002)	Diluent: Mod-Hard Synthetic Water
Ending Date: 01 Sep-21 12:30 ^{PM}	Species: Ceriodaphnia dubia	Brine:
Test Length: 6d 1h	Taxon: Branchiopoda	Source: In-House Culture Age:
Sample ID: 11-4842-3001	Code: OS821	Project: WET Quarterly Compliance Test (3Q)
Sample Date: 25 Aug-21 14:23	Material: Mining Effluent	Source: NPDES Permit #CO-0000003
Receipt Date: 26 Aug-21 09:40	CAS (PC):	Station: 002A
Sample Age: 22h (6 °C)	Client: Ouray Silver Mines	

Multiple Comparison Summary

Analysis ID	Endpoint	Comparison Method	✓	NOEL	LOEL	TOEL	TU	PMSD	S
08-2702-9022	6d Survival Rate	Fisher Exact/Bonferroni-Holm Test		100	>100	n/a	1	n/a	1
19-7364-5954	Reproduction	Steel Many-One Rank Sum Test		100	>100	n/a	1	23.6%	1

Point Estimate Summary

Analysis ID	Endpoint	Point Estimate Method	✓	Level	%	95% LCL	95% UCL	TU	S
16-8340-1942	6d Survival Rate	Linear Interpolation (ICPIN)		EC5	37.67	30.33	n/a	2.655	1
				EC10	>100	n/a	n/a	<1	
			✓	EC15	>100	n/a	n/a	<1	
			✓	EC20	>100	n/a	n/a	<1	
			✓	EC25	>100	n/a	n/a	<1	
			✓	EC40	>100	n/a	n/a	<1	
			✓	EC50	>100	n/a	n/a	<1	
11-1361-9617	Reproduction	Linear Interpolation (ICPIN)	✓	IC5	36.76	25.83	n/a	2.72	1
			✓	IC10	97.51	33.83	n/a	1.026	
			✓	IC15	>100	n/a	n/a	<1	
			✓	IC20	>100	n/a	n/a	<1	
			✓	IC25	>100	n/a	n/a	<1	
			✓	IC40	>100	n/a	n/a	<1	
			✓	IC50	>100	n/a	n/a	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits		Overlap	Decision
				Lower	Upper		
11-1361-9617	Reproduction	Control Resp	40.1	15	>>	Yes	Passes Criteria
19-7364-5954	Reproduction	Control Resp	40.1	15	>>	Yes	Passes Criteria
19-7364-5954	Reproduction	PMSD	0.236	0.13	0.47	Yes	Passes Criteria

6d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
23		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
45		10	0.7000	0.3544	1.0000	0.0000	1.0000	0.1528	0.4830	69.01%	30.00%
89		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
95		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
100		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%

Reproduction Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	10	40.1	33.33	46.87	17	48	2.994	9.469	23.61%	0.00%
23		10	43.3	39.7	46.9	31	48	1.592	5.034	11.63%	-7.98%
45		10	35.7	23.61	47.79	0	50	5.344	16.9	47.34%	10.97%
89		10	40.4	36.55	44.25	28	48	1.701	5.379	13.31%	-0.75%
95		10	39	35.04	42.96	28	46	1.751	5.538	14.20%	2.74%
100		10	36.7	31.52	41.88	20	43	2.29	7.243	19.73%	8.48%

CETIS Summary Report

Report Date: 13 Oct-21 09:13 (p 1 of 1)
Test Code/ID: 6DB119C7 / 18-4032-3015

Fathead Minnow 7-d Larval Survival and Growth Test

GEI Consultants, Inc

Batch ID: 04-5481-5078	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 30 Sep-21 12:40	Protocol: EPA/821/R-02-013 (2002)	Diluent: Mod-Hard Synthetic Water
Ending Date: 07 Oct-21 12:10	Species: Pimephales promelas	Brine:
Test Length: 6d 23h	Taxon: Actinopterygii	Source: Aquatic Biosystems, CO Age:
Sample ID: 11-2148-4112	Code: OS921-002A	Project: WET Quarterly Compliance Test (3Q)
Sample Date: 29 Sep-21 12:35	Material: Mining Effluent	Source: NPDES Permit #CO-0000003
Receipt Date: 30 Sep-21 10:15	CAS (PC):	Station: 002A
Sample Age: 24h (2.5 °C)	Client: Ouray Silver Mines	

Multiple Comparison Summary

Analysis ID	Endpoint	Comparison Method	✓	NOEL	LOEL	TOEL	TU	PMSD	S
18-1025-4212	7d Survival Rate	Dunnett Multiple Comparison Test		100	>100	n/a	1	6.18%	1
05-2421-0280	Mean Dry Biomass-mg	Dunnett Multiple Comparison Test		100	>100	n/a	1	19.6%	1

Point Estimate Summary

Analysis ID	Endpoint	Point Estimate Method	✓	Level	%	95% LCL	95% UCL	TU	S
17-2033-5630	7d Survival Rate	Linear Interpolation (ICPIN)		EC5	>100	n/a	n/a	<1	1
				EC10	>100	n/a	n/a	<1	
				EC15	>100	n/a	n/a	<1	
				EC20	>100	n/a	n/a	<1	
				EC25	>100	n/a	n/a	<1	
				EC40	>100	n/a	n/a	<1	
				EC50	>100	n/a	n/a	<1	
19-7038-9781	Mean Dry Biomass-mg	Linear Interpolation (ICPIN)		IC5	96.26	n/a	n/a	1.039	1
				IC10	>100	n/a	n/a	<1	
				IC15	>100	n/a	n/a	<1	
				IC20	>100	n/a	n/a	<1	
				IC25	>100	n/a	n/a	<1	
				IC40	>100	n/a	n/a	<1	
				IC50	>100	n/a	n/a	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits		Overlap	Decision
				Lower	Upper		
17-2033-5630	7d Survival Rate	Control Resp	1	0.8	>>	Yes	Passes Criteria
18-1025-4212	7d Survival Rate	Control Resp	1	0.8	>>	Yes	Passes Criteria
05-2421-0280	Mean Dry Biomass-mg	Control Resp	0.428	0.25	>>	Yes	Passes Criteria
19-7038-9781	Mean Dry Biomass-mg	Control Resp	0.428	0.25	>>	Yes	Passes Criteria
05-2421-0280	Mean Dry Biomass-mg	PMSD	0.196	0.12	0.3	Yes	Passes Criteria

7d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	4	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
23		4	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
45		4	0.9500	0.8581	1.0000	0.9000	1.0000	0.0289	0.0577	6.08%	5.00%
89		4	0.9500	0.8581	1.0000	0.9000	1.0000	0.0289	0.0577	6.08%	5.00%
95		4	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
100		4	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%

Mean Dry Biomass-mg Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	4	0.428	0.3411	0.5149	0.364	0.488	0.02732	0.05463	12.76%	0.00%
23		4	0.4765	0.3837	0.5693	0.437	0.563	0.02915	0.0583	12.24%	-11.33%
45		4	0.4255	0.3568	0.4942	0.393	0.487	0.0216	0.04319	10.15%	0.58%
89		4	0.437	0.425	0.449	0.429	0.446	0.003764	0.007528	1.72%	-2.10%
95		4	0.4487	0.3739	0.5236	0.386	0.49	0.02351	0.04701	10.48%	-4.85%
100		4	0.4075	0.3061	0.5089	0.313	0.451	0.03185	0.0637	15.63%	4.79%



Whole Effluent Toxicity Testing Report

Ouray Silver Mines Inc.

Submitted to:

Briana Greer

Solid Solution Geosciences, LLC

105 Meadow Estates Drive

Ridgeway, CO 81432

Submitted by:

GEI Consultants, Inc.

Ecological Division

4601 DTC Boulevard, Suite 900

Denver, CO 80237

January 15, 2021

Project 2004862

Report prepared by: MH



1.0 Test Summary

Enclosed are the results of the chronic *Ceriodaphnia dubia* and *Pimephales promelas* tests performed December 8 to 15, 2020. Chronic toxicity test procedures followed the methods described in EPA documentation (EPA 2002) and CDPHE guidelines (CDPHE 1998).

Daily temperatures were taken in the test chambers for the duration of the *C. dubia* test. Surrogate chambers were included within the setup for the *P. promelas* test with temperatures taken daily. Temperatures on the final day of the test were taken in the actual test chambers. The temperature in the *P. promelas* test differed by 3.3°C.

The *C. dubia* test was conducted for seven days; however, control performance criteria were met on day six. Therefore, data from day seven were excluded from all statistical analyses. There were no significant effects on survival, however, there were significant effects on reproduction, with an IC₂₅ of 68.1% effluent (95% C.I. 62.8 to 75.0) and a NOEC of 45% effluent. The IC₂₅ for reproduction calculated by the statistical software was determined to be anomalous due to smoothing error. The IC₂₅ was recalculated manually per EPA methodology (EPA 2002) and determined to be 79.6% effluent (95% C.I. unavailable). Control performance criteria were met.

There were no significant effects in the *P. promelas* test and control performance criteria were met.

According to your permit, a test is considered a permit violation when both the NOEC and IC₂₅ are less than the instream waste concentration of 89% effluent as is the case with *C. dubia* reproduction. Steps should be taken to contact your regulator to establish a plan for follow-up testing.

Table 1: Test results summary based on an instream waste concentration of 89% effluent.

Test Species	Survival		Reproduction/Growth	
	IC ₂₅	NOEC	IC ₂₅	NOEC
<i>C. dubia</i>	Pass	Pass	Fail	Fail
<i>P. promelas</i>	Pass	Pass	Pass	Pass

Report approved by:



Ashley Romero, Laboratory Manager



Natalie Love, Laboratory Director

2.0 Test Conditions

2.1 *Ceriodaphnia dubia* 7-day toxicity test to estimate chronic toxicity

Method: EPA-821-R-02-013 -- Short-Term Method for Estimating Chronic Toxicity. . .

Test Duration: until at least 60% of control organisms release 3 broods

Sample Collection Procedure: composite

Sample Collection Dates: 12/7/20, 12/8/20, 12/11/20

Dilution water: moderately hard reconstituted water

Age of organisms at start: <24 hours old

Feeding: 0.1 mL YCT/0.1 mL *Selenastrum* daily

End Point: mortality, normalized reproduction

Start Date and Time: 12/8/20 12:35

End Date and Time: 12/15/20 12:15

Type of exposure chamber: 30 mL disposable plastic cup

Volume of exposure chamber: 15 mL

Number of animals exposed/chamber: 1

Number of replicates/treatment: 10

Test temperature: 24.7°C ± 1.2°C
EPA recommended range: 25.0°C ± 1.0°C

Standard toxicant used: NaCl

2.2 *Pimephales promelas* 7-day toxicity test to estimate chronic toxicity

Method: EPA-821-R-02-013 -- Short-Term Method for Estimating Chronic Toxicity. . .

Test Duration: 7 days

Sample Collection Procedure: composite

Sample Collection Date: 12/7/20, 12/8/20, 12/11/20

Dilution water: moderately hard reconstituted water

Age of organisms at start: <24 hours old

Feeding: 0.15 mL *Artemia* nauplii 2 times per day

End Point: mortality, growth

Start Date and Time: 12/8/20 12:15

End Date and Time: 12/15/20 12:10

Type of exposure chamber: 300 mL culture dish

Volume of exposure chamber: 250 mL

Number of animals exposed/chamber: 10

Number of replicates/treatment: 4

Test temperature: 23.3°C ± 1.7°C
EPA recommended range: 25.0°C ± 1.0°C

Aeration: None

Standard toxicant used: NaCl

3.0 QA/QC Summary

3.1 Sample QA/QC

Client: Ouray Silver Mines Inc.

Date tests start: 12/8/20

Chain of custody received Yes

Chain of custody completed Yes/No*

*Relinquishment date and time not recorded by client for sample received 12/8/20 and relinquishment date, time, and signature not recorded by client for sample received 12/12/20.

Samples received within holding times Yes

Samples at correct temperature (0-6°C or sampled the same day received) Yes

Samples used within 36 hours of collection Yes

3.2 Test Acceptability

Control performance criteria met (Table 2) Yes

Table 2: Control performance criteria requirements and test results by species.

Test Species	Survival		Reproduction/Growth	
	Test (%)	Acceptable (%)	Test (# or mg)	Acceptable (# or mg)
<i>C. dubia</i>	80	80	30.3	15.0
<i>P. promelas</i>	100	80	0.510	0.250

Tests renewed within acceptable timeframe Yes

At least 60% of control organisms in chronic *C. dubia* test released at least 3 broods Yes

3.3 Statistical QA/QC

Percent minimum significant difference (PMSD) below upper bound (Table 3) Yes

Table 3: Calculated and allowable PMSD upper bounds by species.

Test Species	Calculated PMSD	EPA PMSD Upper Bound
<i>C. dubia</i>	27	47
<i>P. promelas</i>	23	30

Evaluation of concentration-response curve conducted for all endpoints
 (Figures 1-4 & Table 4).....Yes

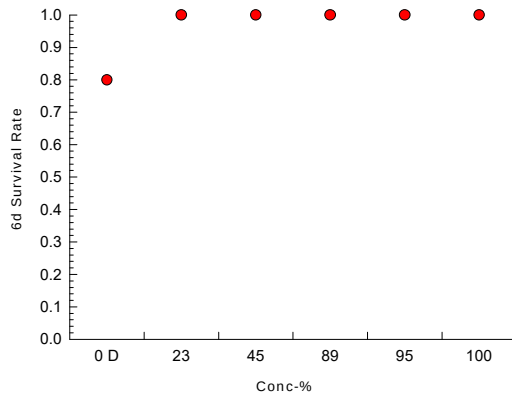


Figure 1: *C. dubia* survival

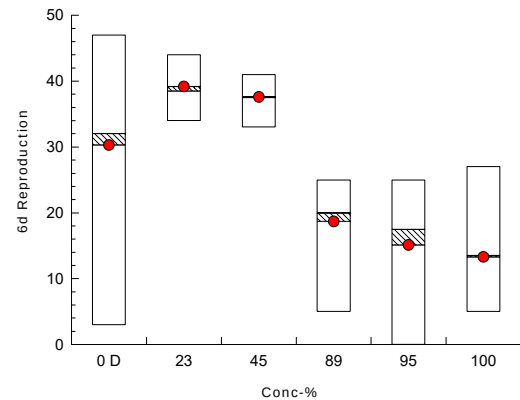


Figure 2: *C. dubia* reproduction

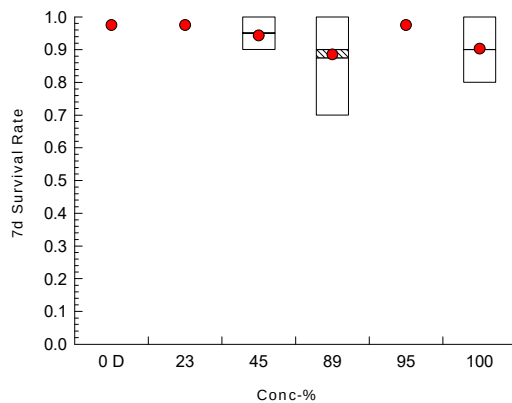


Figure 3: *P. promelas* survival

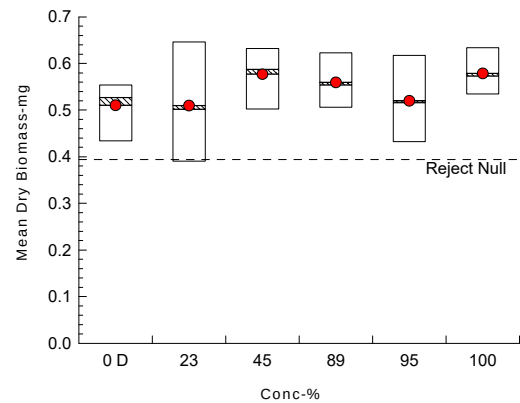


Figure 4: *P. promelas* growth

Table 4: Concentration-response curve evaluation summary.

Species	Endpoint	Concentration-Response Pattern	Valid Curve	Data Acceptability
<i>C. dubia</i>	Survival	Varied with no significant effects	Yes	Approved
	Reproduction	Ideal concentration-response with significant effects in the three highest test concentrations	Yes	Approved with Smoothed IC ₂₅
<i>P. promelas</i>	Survival	Varied with no significant effects	Yes	Approved
	Growth	Varied with no significant effects	Yes	Approved

3.4 Reference Toxicant Summary

Most recent reference toxicant tests met performance requirements (Tables 5 & 6).....Yes

Most recent reference toxicant tests within control chart requirements.....Yes

Table 5: Chronic *Ceriodaphnia dubia* reference toxicant test with NaCl, conducted December 8 to 14, 2020.

mg NaCl/L	Control	150	300	600	1200	2400
#alive/#exposed	10/10	10/10	10/10	10/10	10/10	3/10
% survival	100	100	100	100	100	30
Normalized reproduction $\pm$ SD	35.8 $\pm$ 8.5	31.5 $\pm$ 10.4	36.8 $\pm$ 6.0	35.4 $\pm$ 6.2	25.7 $\pm$ 7.8	0.0 $\pm$ 0.0

Normalized Reproduction:

IC₂₅ (ICp Method) = 1122 mg NaCl/L (95% C.I. 830.5 to 1326)

Note: This is within our accepted performance range (449.4 to 1288.1) determined by 20 previous reference tests performed.

Table 6: Chronic *Pimephales promelas* reference toxicant test with NaCl, conducted December 8 to 15, 2020.

g NaCl/L	Control	0.5	1.5	3.0	5.0	7.0
#alive/#exposed	39/40	40/40	38/40	11/40	15/40	8/40
% survival	97.5	100	95	27.5	37.5	20
Dry Weight (mg) $\pm$ SD	0.599 $\pm$ 0.024	0.547 $\pm$ 0.028	0.556 $\pm$ 0.065	0.193 $\pm$ 0.083	0.101 $\pm$ 0.049	0.051 $\pm$ 0.052

Growth:

IC₂₅ (ICp Method) = 1.93 mg NaCl/L (95% C.I. 1.65 to 2.17)

Note: This is within our accepted performance range (1.00 to 2.31) determined by 20 previous reference tests performed.

4.0 Results

4.1 *Ceriodaphnia dubia* Chronic Toxicity Test

TEST: 7-day chronic with *Ceriodaphnia dubia*

OPERATORS: TE, JW, AW, BK, MH

Start: 12/8/20 12:35

End: 12/15/20 12:15

Test Substance: Effluent

Client/Project: Ouray Silver Mines Inc.

Table 7: Summary results of *C. dubia* chronic toxicity test.

Treatment % Effluent	0	23	45	89	95	100
#alive/#exposed	8/10	10/10	10/10	10/10	10/10	10/10
% survival	80	100	100	100	100	100
Normalized repro / # females exposed $\pm$ SD	30.3 $\pm$ 15.1	39.2 $\pm$ 3.2	37.6 $\pm$ 2.3	18.7 $\pm$ 6.2	15.1 $\pm$ 8.3	13.3 $\pm$ 6.3
Dissolved O ₂ range (mg/L)	<u>7.0</u> 6.6	<u>6.9</u> 6.6	<u>6.7</u> 6.6	<u>6.7</u> 6.6	<u>6.7</u> 6.5	<u>6.7</u> 6.5
pH range (SU)	<u>8.4</u> 8.3	<u>8.4</u> 8.2	<u>8.3</u> 8.2	<u>8.2</u> 8.1	<u>8.2</u> 8.1	<u>8.2</u> 8.1
Conductivity range (μ mho/cm)	<u>369</u> 337	<u>384</u> 357	<u>399</u> 366	<u>430</u> 392	<u>428</u> 396	<u>427</u> 403
Temperature range (°C)	<u>25.8</u> 23.5	<u>25.1</u> 24.4	<u>25.6</u> 24.6	<u>25.4</u> 24.7	<u>25.4</u> 24.7	<u>25.3</u> 24.1

Statistical Analysis:

Survival:

NOEC (Fisher Exact/Bonferroni-Holm) = 100% Effluent

IC₂₅ (ICp Method) = >100% Effluent (95% C.I. unavailable)

Normalized Reproduction:

NOEC (Steel Many-One Rank Sum) = 45% Effluent

Approved: Smoothed IC₂₅ (Manual Calculation) = 79.6% Effluent (95% C.I. unavailable)

Not Used: IC₂₅ (ICp Method) = 68.1% Effluent (95% C.I. 62.8 to 75.0)

4.2 *Pimephales promelas* Chronic Toxicity Test

TEST: 7-day chronic with *Pimephales promelas*

OPERATORS: CL, AW, JMS, TE, JW

Start: 12/8/20 12:15

End: 12/15/20 12:10

Test Substance: Effluent

Client/Project: Ouray Silver Mines Inc.

Table 8: Summary results of *P. promelas* chronic toxicity test.

Treatment % Effluent	0	23	45	89	95	100
#alive/#exposed	40/40	40/40	38/40	35/40	40/40	36/40
% survival	100	100	95	87.5	100	90
Dry weight (mean wt. (mg) / #exposed $\pm$ SD)	0.510 $\pm$ 0.054	0.510 $\pm$ 0.105	0.577 $\pm$ 0.055	0.559 $\pm$ 0.053	0.520 $\pm$ 0.079	0.579 $\pm$ 0.046
Dissolved O ₂ range (mg/L)	<u>6.4</u> 5.8	<u>6.3</u> 5.6	<u>6.4</u> 5.6	<u>6.2</u> 5.6	<u>6.2</u> 5.5	<u>6.2</u> 5.6
pH range (SU)	<u>8.1</u> 7.9	<u>8.0</u> 7.8	<u>8.0</u> 7.7	<u>7.9</u> 7.7	<u>7.9</u> 7.7	<u>7.9</u> 7.7
Conductivity range (μ mho/cm)	<u>351</u> 326	<u>358</u> 342	<u>376</u> 360	<u>405</u> 386	<u>406</u> 388	<u>414</u> 391
Temperature range (°C)	<u>24.3</u> 21.6	<u>24.9</u> 23.1	<u>24.6</u> 23.1	<u>24.2</u> 22.7	<u>24.8</u> 23.3	<u>24.6</u> 23.6

Statistical Analysis:

Survival:

NOEC (Steel Many-One Rank Sum) = 100% Effluent

IC₂₅ (ICp Method) = >100% Effluent (95% C.I. unavailable)

Growth:

NOEC (Dunnett Multiple Comparison) = 100% Effluent

IC₂₅ (ICp Method) = >100% Effluent (95% C.I. unavailable)

4.3 Water Chemistry Results from Samples Received for Toxicity Tests

Table 9: Wet chemistry on reconstituted water and effluent samples.

Measurement	MH Recon Water*	100% Effluent Received 12/8/20	100% Effluent Received 12/9/20	100% Effluent Received 12/12/20
Analysis Temperature (°C)	25.0	25.0	25.0	25.0
Total Hardness (mg CaCO ₃ /L)	95	176	174	174
pH (SU)	8.2	7.4	7.3	7.6
Alkalinity (mg CaCO ₃ /L)	69	56	56	54
Conductivity (µmho/cm)	322	383	392	382
Total Dissolved Solids Calculated from Conductivity (mg/L)	--	188	192	187
Dissolved Oxygen (mg/L)	7.2	9.6	7.9	8.9
Ammonia as N (mg NH ₃ /L)	--	0.05	0.07	0.07
Un-ionized Ammonia (mg NH ₃ /L)	--	<0.10	<0.10	<0.10
Total Residual Chlorine (mg/L)	--	<0.02	<0.02	<0.02

*Represents an average of three reconstituted waters used.

5.0 References

Colorado Department of Public Health and Environment (CDPHE). 1998. Water Quality Control Division. Laboratory guidelines for conducting whole effluent toxicity tests. Denver, Colorado.

Tidepool Scientific Software. 2000-2018. CETIS - Comprehensive Environmental Toxicity Information System. V1.9.5.5. McKinleyville, CA.

U.S. Environmental Protection Agency (EPA). 2000. Method Guidance and Recommendations for Whole Effluent Toxicity (WET) Testing. EPA-821-B-00-004. Office of Water, Washington, D.C.

U.S. Environmental Protection Agency (EPA). 2002. Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms. EPA-821-R-02-013. Office of Water, Washington D.C.

Appendix A

Colorado CDPS WET test report forms

COLORADO – CDPS WET TEST REPORT FORM – CHRONIC

PERMITEE NAME: Ouray Silver Mines Inc. CDPS NO: CO-0000003 OUTFALL: 002A

TYPE TEST: ROUTINE ☒ ACCELERATED TEST SPECIES: Ceriodaphnia dubia

Test Results: Lethality Growth Reproduction

CONC. WITH STAT. DIFFERENCE	>100%	NA	89%
PASS/FAIL	PASS	NA	FAIL
NOEC	100%	NA	45%
PASS/FAIL	PASS	NA	FAIL
IC ₂₅	>100%	NA	79.6% (95% C.I. unavailable)
PASS/FAIL	PASS	NA	FAIL

STAT. METHOD USED: STATISTICAL DIFF.: NOEC, LC₅₀ IC₂₅ ICp METHOD

TEST DATE/TIME: START 12/8/20 12:35 END 12/15/20 12:15

DILUTIONS (%EFFLUENT)

	CONTROL	23%	45%	89%	95%	100%
% SURVIVAL FOR DAY: 1	100	100	100	100	100	100
2	100	100	100	100	100	100
3	100	100	100	100	100	100
4	80	100	100	100	100	100
5	80	100	100	100	100	100
6	80	100	100	100	100	100
MEAN 3 BROOD TOTAL:	30.3	39.2	37.6	18.7	15.1	13.3
7 DAY MEAN DRY WEIGHT:						
pH MAX/MIN:	8.4/8.3	8.4/8.2	8.3/8.2	8.2/8.1	8.2/8.1	8.2/8.1

MEAN HARDNESS (mg/L) RECEIVING WATER: NA EFFLUENT: 175 RECON WATER: 95

MEAN ALKALINITY (mg/L) RECEIVING WATER: NA EFFLUENT: 53 RECON WATER: 69

MEAN T. AMMONIA as N (mg/L) INITIAL EFFLUENT: 0.06 FINAL EFFLUENT: NA

MEAN T. RESIDUAL CHLORINE (mg/L) 100%: <0.02 RECEIVING WATER USED FOR DILUTIONS? (Y/N) N

WERE ALL TEST CONDITIONS IN CONFORMANCE WITH DIVISION GUIDELINES? (Y/N) Y

IF NO, LIST DEVIATIONS FROM TEST SPECIFICATIONS:

ANALYST: Michael Hendricks

SIGNATURE: 

LABORATORY: GEI Consultants, Inc./Ecological Division

DATE: 1/6/2020

COMMENTS:

COLORADO – CDPS WET TEST REPORT FORM – CHRONIC

PERMITEE NAME: Ouray Silver Mines Inc. CDPS NO: CO-0000003 OUTFALL: 002A

TYPE TEST: ROUTINE ☒ ACCELERATED TEST SPECIES: Pimephales promelas

Test Results: Lethality Growth Reproduction

CONC. WITH STAT. DIFFERENCE	>100%	>100%	NA
PASS/FAIL	PASS	PASS	NA
NOEC	100%	100%	NA
PASS/FAIL	PASS	PASS	NA
IC ₂₅	>100%	>100%	NA
PASS/FAIL	PASS	PASS	NA

STAT. METHOD USED: STATISTICAL DIFF.: NOEC, LC₅₀ IC₂₅ ICp METHOD

TEST DATE/TIME: START 12/8/20 12:15 END 12/15/20 12:10

DILUTIONS (%EFFLUENT)

	CONTROL	23%	45%	89%	95%	100%
% SURVIVAL FOR DAY: 1	100	100	100	92.5	100	90
2	100	100	100	92.5	100	90
3	100	100	97.5	92.5	100	90
4	100	100	97.5	92.5	100	90
5	100	100	95	92.5	100	90
6	100	100	95	92.5	100	90
7	100	100	95	87.5	100	90
MEAN 3 BROOD TOTAL:						
7 DAY MEAN DRY WEIGHT:	0.510	0.510	0.577	0.559	0.520	0.579
pH MAX/MIN:	8.1/7.9	8.0/7.8	8.0/7.7	7.9/7.7	7.9/7.7	7.9/7.7

MEAN HARDNESS (mg/L) RECEIVING WATER: NA EFFLUENT: 175 RECON WATER: 95

MEAN ALKALINITY (mg/L) RECEIVING WATER: NA EFFLUENT: 53 RECON WATER: 69

MEAN T. AMMONIA as N (mg/L) INITIAL EFFLUENT: 0.06 FINAL EFFLUENT: NA

MEAN T. RESIDUAL CHLORINE (mg/L) 100%: <0.02 RECEIVING WATER USED FOR DILUTIONS? (Y/N) N

WERE ALL TEST CONDITIONS IN CONFORMANCE WITH DIVISION GUIDELINES? (Y/N) Y

IF NO, LIST DEVIATIONS FROM TEST SPECIFICATIONS:

ANALYST: Michael Hendricks

SIGNATURE: 

LABORATORY: GEI Consultants, Inc./Ecological Division DATE: 1/6/2020

COMMENTS: The temperature in the test differed by 3.3°C.

Appendix B

Chain-of-custody forms and laboratory bench sheets from whole effluent toxicity tests

GEI Consultants, Inc./Ecological Division
 4601 DTC BLVD., SUITE L100
 DENVER, CO 80237
 Main: (303) 662-0100 Lab: (303) 264-1120

(GEI Use) Log Number 051220-1

BIOASSAY LABORATORY CHAIN-OF-CUSTODY

CLIENT/PROJECT <u>Curry Silver Mines Inc</u> ADDRESS <u>1906 Main St</u> CITY <u>Curry</u> STATE <u>CO</u> ZIP _____ PHONE # _____ PROJ. MANAGER <u>Brian Grier</u> SAMPLER <u>Chris Belene</u>		TESTS REQUIRED <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">ACUTE</th> <th colspan="2">CHRONIC</th> </tr> <tr> <td>C E E R I O</td> <td>F A A T H E A D</td> <td>T R O I O</td> <td>F A T H E A D</td> </tr> </table>		ACUTE		CHRONIC		C E E R I O	F A A T H E A D	T R O I O	F A T H E A D
ACUTE		CHRONIC									
C E E R I O	F A A T H E A D	T R O I O	F A T H E A D								
SAMPLE TYPE/SITE <u>OF 0024</u>	Composite ☐	Grab ☒	Date Collected <u>12/7</u>	Time Collected <u>1315</u>	TRC (mg/L) <u>N/A</u> <u>40.02</u>	Date/Time Measured <u>12/8/20</u>	COMMENTS:				
PROJECT INFORMATION				LABORATORY RECEIVING INFORMATION							
CLIENT DROP OFF: ☐				CONDITION OF SAMPLE ON RECEIPT: <u>Good</u>							
COURIER: ☒ UPS ☐ FEDEX ☐ OTHER ☐				CUSTODY SEAL INTACT?: YES ☒ NO ☐ N/A ☐							
TOTAL NUMBER OF CONTAINERS: <u>2</u>				TEMPERATURE (°C): <u>1.0</u> TEMPERATURE IN RANGE (0-6°C): YES ☒ NO ☐ IF NOT IN RANGE, SAMPLED SAME DAY, TEMP OK?: YES ☐ NO ☐							
COMMENTS:				CLIENT RELINQUISHED BY: <u>Chris Belene</u> DATE/TIME: _____							
LABORATORY RECEIVED BY: <u>Tamara</u> DATE/TIME: <u>12/18/20 945</u>				COMMENTS:							

GEI Consultants, Inc./Ecological Division
4601 DTC BLVD., SUITE L100
DENVER, CO 80237
Main: (303) 662-0100 Lab: (303) 264-1120

(GEI Use) Log Number 051220-2

BIOASSAY LABORATORY CHAIN-OF-CUSTODY

CLIENT/PROJECT <u>Quarry Silver Mines</u> ADDRESS <u>1900 Main St.</u> CITY <u>Quarry</u> STATE <u>CO</u> ZIP _____ PHONE # _____ PROJ. MANAGER <u>Brian Green</u> SAMPLER <u>Chris Bedane</u>		TESTS REQUIRED ACUTE: ☐ CHRONIC: ☐ C E F D T C F A D I A A P R E A L A O R T O I A G A P O H H U O H A H N A E N I A E E A N A D A A E E I A		CHLORINE Measured by: _____ Client ☐ Lab ☒		COMMENTS:
SAMPLE TYPE/SITE <u>0F002A</u>	Composite ☐ Grab ☒	Date Collected <u>12/8</u>	Time Collected <u>1300</u>	TRC (mg/L) <u>NA</u>	Date/Time Measured <u>12/9/20 855</u>	
PROJECT INFORMATION		LABORATORY RECEIVING INFORMATION		CLIENT RELINQUISHED BY: <u>CS 12/8</u>		
CLIENT DROP OFF: ☐ COURIER: ☒ UPS ☒ FEDEX ☐ OTHER ☐	CONDITION OF SAMPLE ON RECEIPT: <u>GOOD</u> CUSTODY SEAL INTACT?: YES ☒ NO ☐ N/A ☐	DATE/TIME: <u>12/8 1400</u>				
TOTAL NUMBER OF CONTAINERS: <u>4 tobs in 2 casks</u>	TEMPERATURE (°C): <u>1.0 / 0.0</u> TEMPERATURE IN RANGE (0-6°C): YES ☒ NO ☐ IF NOT IN RANGE, SAMPLED SAME DAY, TEMP OK?: YES ☐ NO ☐	LABORATORY RECEIVED BY: <u>JIMMY WEBSTER</u>		DATE/TIME: <u>12/9/20 845</u>		
COMMENTS:						

(GEI Use) Log Number 151770-3

151770-3

Updated 2019

1300 Blue Spruce Drive, Suite C
Fort Collins, Colorado 80524



Toll Free: 800/331-5916
Tel: 970/484-5091 Fax: 970/484-2514

OS1220-002A

ORGANISM HISTORY

DATE: 12/7/2020

SPECIES: *Pimephales promelas*

AGE: N/A

LIFE STAGE: Embryo

HATCH DATE: 12/7/2020

BEGAN FEEDING: N/A

FOOD: N/A

Water Chemistry Record:

	Current	Range
TEMPERATURE:	22°C	--
SALINITY/CONDUCTIVITY:	--	--
TOTAL HARDNESS (as CaCO ₃):	122 mg/l	--
TOTAL ALKALINITY (as CaCO ₃):	90 mg/l	--
pH:	7.85	--

Comments:



Facility Supervisor

INITIAL CHEMISTRY BENCH SHEET

Client/Project: Ouray 002A/OS 1220-002A

Samples Received: Date/Time 12/8/20 945

Test Substance: Effluent 002A

What test/s will samples be used in?

Ch C/F

Dilution Water lab water or receiving water

SAMPLE TYPE LOG NUMBER DATE COLLECTED	DATE/TIME ANALYZED	DATES USED	ANALYSES TEMP. (°C)	TOTAL HARDNESS (mg/L)	pH (SU)	TOTAL ALKALINITY (mg/L)	D.O. (mg/L)	COND. (µS)	TDS CALCULATED FROM COND. (mg/L)	TRC (mg/L)	AMMONIA AS N (mg/L)	METER USED	ANALYST
Effluent OS1220-002A-1 12/11/20	12/8/20 1115	12/8/20	25.0	88 176	7.4	2.8 56	9.6	383	188	<0.02	0.056	1	AR
Effluent OS1220-002A-2 12/8/20	12/9/20 920	12/9/20	25.0	8.7 174	7.3	2.8 56	7.9	342	192	<0.02	0.07	1	AR
Effluent OS1220-002A-3 12/11/20	12/14/20 1035	12/12/20 12/11/20	25.0	8.7 174	7.6	2.7 54	8.9	382	187	<0.02	0.07	1	AR
Averages			25.0	175	7.4	53	8.8	386	189	<0.02	0.06		

Site	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7					
Daily Measurements													
pH/initials	7.4/AR	7.3/JS	7.3/JS	7.2/L	7.4/AR	7.3/JS	7.3/JS						
pH/initials													
pH/initials													
pH/initials													

COMMENTS:

Samples stored in refrigerator: N

Data Checked and Approved by Laboratory Manager (Initials): AR

RECONSTITUTED SYNTHETIC LABORATORY WATER CHEMISTRY BENCH SHEET

Client/Project: Ouray 002A/OS1220 -002A

Test Substance: Effluent 002A

Analyst: AN

What test/s will
samples be used in? Ch C/F

Test/s Start Date: 12/8/20

BATCH #	ANALYSES TEMP. (°C)	TOTAL HARDNESS (mg/L)	pH (SU)	TOTAL ALKALINITY (mg/L)	D.O. (mg/L)	COND. (µS)
MH252	25.0	94	8.2	68	7.2	338
MH267	25.0	98	8.2	70	7.3	317
MH282	25.0	94	8.3	70	7.2	310
AVERAGE VALUE	25.0	95	8.2	69	7.2	322

COMMENTS:

Data Checked and Approved by Laboratory Manager (Initials): AR

CHRONIC TOXICITY CHEMISTRY BENCH SHEET

START Date: 12/8/20

FINISH Date: 12/15/20

Dilution Water: MH Recon

Test Substance: Effluent 002A

Client/Project: Ouray 002A/OS 1220 -002A

Organism: C. dubia

Test Conc.	Chemical Parameter	Day of Test								COMMENTS
		1	2	3	4	5	6	7		
0	DO (mg/L)	6.8	7.0	6.9	6.7	6.6	7.0	6.6		
	Cond. (µS)	357	369	337	361	358	361	350		
	pH	8.3	8.4	8.4	8.4	8.3	8.3	8.3		
	Temp. (°C)	23.5	24.0	25.8	24.5	24.5	24.5	25.1		
23	DO (mg/L)	6.7	6.9	6.7	6.6	6.6	6.8	6.5		
	Cond. (µS)	384	375	357	376	370	379	364		
	pH	8.2	8.4	8.3	8.3	8.3	8.2	8.2		
	Temp. (°C)	24.4	24.8	25.1	24.7	24.6	24.6	25.2		
45	DO (mg/L)	6.7	6.7	6.6	6.6	6.6	6.7	6.5		
	Cond. (µS)	399	384	366	385	387	385	378		
	pH	8.2	8.3	8.2	8.3	8.2	8.2	8.2		
	Temp. (°C)	25.0	25.5	25.6	24.7	24.6	25.2	25.4		
89	DO (mg/L)	6.6	6.7	6.6	6.6	6.6	6.7	6.4		
	Cond. (µS)	430	413	392	406	411	413	410		
	pH	8.1	8.2	8.1	8.2	8.2	8.1	8.1		
	Temp. (°C)	24.7	25.2	25.4	24.9	24.7	25.4	25.4		
95	DO (mg/L)	6.6	6.6	6.6	6.5	6.5	6.7	6.4		
	Cond. (µS)	428	415	396	409	418	420	415		
	pH	8.1	8.2	8.2	8.2	8.2	8.1	8.0		
	Temp. (°C)	24.8	25.4	25.1	25.0	24.7	25.4	25.4		
100	DO (mg/L)	6.6	6.7	6.6	6.5	6.6	6.6	6.4		
	Cond. (µS)	427	422	406	403	414	418	426		
	pH	8.1	8.2	8.2	8.2	8.1	8.1	8.0		
	Temp. (°C)	24.1	24.4	24.4	24.7	24.6	25.3	25.5		
Incubator Temperature (°C)		25.0	25.0	25.0	25.3	25.5	25.0	25.0		Max: 25.8
Analyst		W	AW	BK	W	W	TE	MT		Min: 23.5
Time Analyzed		1150	1155	1145	1330	1250	1310	1230		Range: 2.3
Environmental Chamber		W	W	W	W	W	W	W		Mean: 24.7 ± 1.2
Meter Number		1	1	1	1	1	1	1		

Data Checked and Approved by Laboratory Manager (Initials): AR

Data from day seven
excluded from all statistical
analyses

CHRONIC TOXICITY CHEMISTRY BENCH SHEET

START Date: 12/8/20

FINISH Date: 12/15/20

Dilution Water: MH Recon

Test Substance: Effluent 002A

Client/Project: Ouray 002A/OS 1220 -002A

Organism: P. promelas

Test Conc.	Chemical Parameter	Day of Test							COMMENTS
		1	2	3	4	5	6	7	
0	DO (mg/L)	6.1	6.3	6.2	6.2	6.4	6.0	5.8	
	Cond. (µS)	326	341	337	346	351	339	346	
	pH	7.9	8.0	7.9	8.1	8.1	7.9	7.9	
	Temp. (°C)	23.1	23.2	23.0	22.7	21.6	24.3	24.1	
23	DO (mg/L)	6.0	6.2	6.1	6.2	6.3	6.1	5.6	
	Cond. (µS)	342	352	348	355	358	353	354	
	pH	7.9	8.0	7.9	8.0	8.0	7.9	7.8	
	Temp. (°C)	23.9	23.8	24.1	23.5	23.1	24.5	24.9	
45	DO (mg/L)	6.0	6.2	6.2	6.2	6.4	6.1	5.6	
	Cond. (µS)	360	371	363	373	376	369	372	
	pH	7.8	7.9	7.9	8.0	7.9	7.8	7.7	
	Temp. (°C)	23.6	23.6	24.0	23.8	23.1	24.5	24.6	
89	DO (mg/L)	5.9	6.2	6.2	6.2	6.1	6.0	5.6	
	Cond. (µS)	386	392	390	401	403	392	405	
	pH	7.8	7.9	7.8	7.9	7.8	7.8	7.7	
	Temp. (°C)	23.6	23.5	23.9	23.6	22.7	24.2	24.2	
95	DO (mg/L)	5.9	6.2	6.2	6.2	6.1	34.0 ⁴⁰	5.5	• 5.9
	Cond. (µS)	388	399	390	401	406	396	404	
	pH	7.8	7.8	7.8	7.9	7.8	7.8	7.7	
	Temp. (°C)	23.9	23.9	24.3	23.6	23.3	24.6	24.8	
100	DO (mg/L)	5.9	6.2	6.2	6.0	6.1	6.0	5.6	
	Cond. (µS)	391	405	398	406	410	399	414	
	pH	7.8	7.9	7.8	7.9	7.8	7.8	7.7	
	Temp. (°C)	24.1	24.0	24.5	24.0	23.6	24.5	24.6	
Incubator Temperature (°C)		25.0	25.0	25.0	25.0	25.0	25.0	25.0	Max: 24.9 Min: 21.4 Range: 3.3 Mean: 23.3 ± 1.7
Analyst		LL	JMS	JMS	TE	WV	AW	W	
Time Analyzed		1140	1030	835	1540	1305	935	1205	
Environmental Chamber		✓	✓	✓	✓	✓	✓	✓	
Meter Number		1	1	1	1	1	1	1	

Data Checked and Approved by Laboratory Manager (Initials): AR

CERIODAPHNIA DUBIA 3-BROOD CHRONIC TOXICITY TEST BENCH SHEET

PAGE 1

START Date/Time: 12/8/20 1235

FINISH Date/Time: 12/15/20 1215

Dilution Water: MH Recon

Test Substance: Effluent 002A

Client/Project: Ouray 002A/OS/220 -002A

Begun By: TE

Conc.	Day	Replicate										D.O. (mg/L)	Analyst	Time Renewed and Fed	NOTES:		
		A	B	C	D	E	F	G	H	I	J						
0	1	0									0	7.4	W	1040			
	2	0									0	7.7	AW	1130			
	3	0	6	5	3	5	7	3	3	5	5	7.2	BK	1035			
	4	~~0~~			0	0	15	11	0	7	13	7.6	W	1250			
	5	14	17	16	14		0	0		0	0	7.9	W	1215			
	6	26	24	19	16		19	17		18	12	7.6	TE	1235			
	7	26	18	19	23		20	20		24	0	-	MH	1215			
	8					1				1							
TOTALS		43	47	40	33	50	41	31	30	30					# live adults	mean reprod. ± S.D.	norm. reprod. ± S.D.
		48												8	36.9±6.7	30.3±15.1	

Conc.	Day	Replicate										D.O. (mg/L)	Analyst	NOTES:	
		A	B	C	D	E	F	G	H	I	J				
23	1	0									0	7.4	mv		
	2	0									0	7.7	AW		
	3	0	4	3	4	5	4	3	3	4	4	7.2	BK		
	4	7	0		0	10	11	15	0	9	0	7.3	mv		
	5	13	17	14	13	0		0	11	0	16	8.0	mv		
	6	14	23	27	21	24	23	22	24	23	21	7.5	TE		
	7	1	26	24	20	18	25	26	24	25	5	—	MH	Summarized Results:	
	8													# live adults	normalized reproduction ± S.D.
TOTALS		34	44	44	38	39	38	40	38	36	41			10	39.2 ± 3.2

Conc.	Day	Replicate										D.O. (mg/L)	Analyst	NOTES:	
		A	B	C	D	E	F	G	H	I	J				
45	1	0									0	7.4	W		
	2	0									0	7.8	AW		
	3	0	5	10	4	4	3	4	3	4	4	7.3	BK		
	4	8	0	10	0	0	11	0	0	13	0	7.3	W		
	5	14	14	3	14	9	0	12	12	0	13	8.2	W		
	6	15	20	22	22	23	23	23	18	21	19	7.5	TE		
	7	0	14	24	23	22	23	19	22	24	20	—	MH	Summarized Results:	
	8													# live adults	normalized reproduction ± S.D.
TOTALS		37	39	41	40	36	37	39	33	38	36			10	37.6 ± 2.3

Board Used	Cup									
11/30B	4	5	10	12	13	14	16	22	27	28

Date/time adults isolated	12/7/20 1400
Date/time neonates harvested	12/7/20 2130

Template number 3

Data Checked and Approved by Laboratory Manager (Initials): AR

Six day Survival and
Reproduction used for all
Statistical analyses.

CERIODAPHNIA DUBIA 3-BROOD CHRONIC TOXICITY TEST BENCH SHEET

PAGE 2/2

START Date/Time: 12/8/20 1235

FINISH Date/Time: 12/15/20 1215

Dilution Water: MH Recon

Test Substance: Effluent 002A

Client/Project: Ouray 002A/OS 1220 -002A

Begun By: TE

Conc.	Day	Replicate										D.O. (mg/L)	Analyst	Time Renewed and Fed	NOTES:	
		A	B	C	D	E	F	G	H	I	J					
89	1	0									0	7.6	W	1040		
	2	0									0	8.2	AW	1130		
	3	0	0	4	0	0	3	3	0	0	4	7.7	BK	1035		
	4	0		0	5	0					0	7.6	W	1250		
	5	5	11	7	9	6	8	8	7	8	10	8.3	W	1215		
	6	0	12	14	11	9	12	10	9	11	1	7.9	TE	1235		
	7	5	0	14	1	17	18	0	0	15	14	-	MH	1215		
	8														# live adults	normalized reproduction ± S.D.
TOTALS		5	23	25	25	15	23	21	16	19	15				10	18.7 ± 6.2

Conc.	Day	Replicate										D.O. (mg/L)	Analyst	NOTES:	
		A	B	C	D	E	F	G	H	I	J				
95	1	0									0	7.4	W		
	2	0									0	8.4	AW		
	3	0				0	4	4	0	0	0	7.3	BK		
	4	0	4	0	4	0					0	7.7	W		
	5	0	9	0	8	12	0	8	3	9	0	8.3	W		
	6	0	11	11	13	10	13	7	4	9	8	7.9	TE		
	7	10	0	0	10	12	14	15	0	7	11	-	MH		
	8													# live adults	normalized reproduction ± S.D.
TOTALS		0	24	11	25	22	17	19	7	18	8			10	15.1 ± 8.3

Conc.	Day	Replicate										D.O. (mg/L)	Analyst	NOTES:	
		A	B	C	D	E	F	G	H	I	J				
100	1	0									0	7.8	W		
	2	0									0	8.7	AW		
	3	0	0	0					0	5	0	7.6	BK		
	4	0	5	0				0	3	0	0	7.6	W		
	5	4	7	5	7	0	3	0	0	10	7	8.2	W		
	6	10	2	10	6	6	7	5	8	12	11	8.7	TE		
	7	0	0	8	0	15	14	6	0	13	3	-	MH		
	8													# live adults	normalized reproduction ± S.D.
TOTALS		14	14	15	13	6	10	5	11	27	18			10	13.3 ± 6.3

Board Used	Cup									
11/30B	4	5	10	12	13	14	16	22	27	28

Date/time adults isolated	12/7/20 1400
Date/time neonates harvested	12/7/20 2130

Template number 3

Data Checked and Approved by Laboratory Manager (Initials): AR

Six day Survival and
reproduction used for
all statistical analyses.

FATHEAD MINNOW 7-DAY CHRONIC TOXICITY TEST BENCH SHEET

START Date/Time: 12/8/20 1215

FINISH Date/Time: 12/15/20 1210

Dilution Water: MH Recon

Test Substance: Effluent 002A

Client/Project: Ouray 002A/OS 1220 -002A

Begun By: u

CONCENTRATION & REPLICATE		Number alive/day of test								#alive/ # exposed (% survival)	COMMENTS
		Start	1	2	3	4	5	6	7		
0	A	10	10	10	10	10	10	10	10	40/40 100%	
	B	10	10	10	10	10	10	10	10		
	C	10	10	10	10	10	10	10	10		
	D	10	10	10	10	10	10	10	10		
23	A	10	10	10	10	10	10	10	10	40/40 100%	
	B	10	10	10	10	10	10	10	10		
	C	10	10	10	10	10	10	10	10		
	D	10	10	10	10	10	10	10	10		
45	A	10	10	10	10	10	10	10	10	38/40 95%	
	B	10	10	10	9	9	9	9	9		
	C	10	10	10	10	10	10	10	10		
	D	10	10	10	10	10	9	9	9		
89	A	10	9	9	9	9	9	9	7	35/40 87.5%	
	B	10	10	10	10	10	10	10	10		
	C	10	9	9	9	9	9	9	9		
	D	10	9	9	9	9	9	9	9		
95	A	10	10	10	10	10	10	10	10	40/40 100%	
	B	10	10	10	10	10	10	10	10		
	C	10	10	10	10	10	10	10	10		
	D	10	10	10	10	10	10	10	10		
100	A	10	9	9	9	9	9	9	9	34/40 90%	
	B	10	9	9	9	9	9	9	9		
	C	10	10	10	10	10	10	10	10		
	D	10	8	8	8	8	8	8	8		
ANALYST		u	u	JMS	JMS	TE	W	AW	u		
TIME FED AM		750	540	540	545	620	630	715	-		
TIME FED PM		1555	1530	1700	1545	1645	1640	1555	-		
TIME RENEWED		1215	1110	1030	840	1550	1320	945	1210		

*1540

FATHEAD MINNOW 7-DAY CHRONIC TOXICITY WEIGHT BENCH SHEET

DRYING START Date/Time: 12/15/20 1245 Temp. 60.0 °C END Date/Time: 12/16/20 1255 Temp. 60.0 °C

Client/Project: Ouray 002A/OS 1220 -002A

Analyst: JMS

CONTROLS & REPLICATE	Larvae Wt. (g.)	# FISH		MEAN WT Weight/Surviving Fish/Rep (mg)	MEAN WT Mean Weight/Surv. Fish (mg) ± SD	GROWTH Weight/Fish Exposed/Rep (mg.)	GROWTH Mean Wt/fish exp (mg) ± SD
		BEGIN	END				
0	A	0.00354	10	10	0.554	0.510 ± 0.054	0.510 ± 0.054
	B	0.00512	10	10	0.512		
	C	0.00541	10	10	0.541		
	D	0.00434	10	10	0.434		
A							
B							
C							
D							
CONCENTRATION & REPLICATE	Larvae Wt. (g.)	# Fish Begin	GROWTH Weight/Fish Exposed/Rep (mg.)		GROWTH Mean Weight/Fish Exposed (mg) ± SD		
23	A	0.00646	10	10	0.646	0.510 ± 0.105	
	B	0.00508	10	10	0.508		
	C	0.00495	10	10	0.495		
	D	0.00390	10	10	0.390		
45	A	0.00502	10	10	0.502	0.577 ± 0.055	
	B	0.0061600 JMS	10	10	0.600		
	C	0.00574	10	10	0.574		
	D	0.00632	10	10	0.632		
89	A	0.00506	10	10	0.506	0.559 ± 0.053	
	B	0.00623	10	10	0.623		
	C	0.00580	10	10	0.580		
	D	0.00528	10	10	0.528		
95	A	0.00432	10	10	0.432	0.520 ± 0.079	
	B	0.00544	10	10	0.544		
	C	0.00487	10	10	0.487		
	D	0.00617	10	10	0.617		
100	A	0.00534	10	10	0.534	0.579 ± 0.046	
	B	0.00634	10	10	0.634		
	C	0.00597	10	10	0.597		
	D	0.00549	10	10	0.549		
A							
B							
C							
D							

Data Checked and Approved by Laboratory Manager (Initials): AR

CETIS Summary Report

Report Date: 06 Jan-21 09:22 (p 1 of 1)
Test Code/ID: 4A159E69 / 12-4293-0793

Ceriodaphnia 7-d Survival and Reproduction Test

GEI Consultants, Inc

Batch ID: 13-8204-7685	Test Type: Reproduction-Survival (6-8d)	Analyst:
Start Date: 08 Dec-20 12:35	Protocol: EPA/821/R-02-013 (2002)	Diluent: Mod-Hard Synthetic Water
Ending Date: 15 Dec-20 12:15	Species: Ceriodaphnia dubia	Brine:
Test Length: 7d	Taxon: Branchiopoda	Source: In-House Culture Age:
Sample ID: 09-1152-6791	Code: OS1220-002A	Project: WET Quarterly Compliance Test (4Q)
Sample Date: 07 Dec-20 13:15	Material: Mining Effluent	Source: NPDES Permit #CO-0000003
Receipt Date: 08 Dec-20 09:45	CAS (PC):	Station: 002A
Sample Age: 23h (1 °C)	Client: Ouray Silver Mines	

Multiple Comparison Summary

Analysis ID	Endpoint	Comparison Method	✓	NOEL	LOEL	TOEL	TU	PMSD	S
18-4087-2205	6d Reproduction	Steel Many-One Rank Sum Test	45	89	63.29	2.222	27.2%	1	
19-3730-3008	6d Survival Rate	Fisher Exact/Bonferroni-Holm Test	100	>100	n/a	1	n/a	1	

Point Estimate Summary

Analysis ID	Endpoint	Point Estimate Method	✓	Level	%	95% LCL	95% UCL	TU	S
19-7711-7924	6d Reproduction	Linear Interpolation (ICPIN)	✓	IC5	49.62	46.04	50.99	2.015	1
			✓	IC10	54.24	50.36	56.99	1.844	
			✓	IC15	58.86	54.89	62.98	1.699	
			✓	IC20	63.48	59.25	68.97	1.575	
			✓	IC25	68.1	62.82	74.97	1.468	
			✓	IC40	81.96	73.71	89.92	1.22	
			✓	IC50	90.42	81.42	96.16	1.106	
20-8002-0223	6d Survival Rate	Linear Interpolation (ICPIN)		EC5	>100	n/a	n/a	<1	1
				EC10	>100	n/a	n/a	<1	
				EC15	>100	n/a	n/a	<1	
				EC20	>100	n/a	n/a	<1	
				EC25	>100	n/a	n/a	<1	
				EC40	>100	n/a	n/a	<1	
				EC50	>100	n/a	n/a	<1	

6d Reproduction Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	10	30.3	19.52	41.08	3	47	4.763	15.06	49.71%	0.00%
23		10	39.2	36.92	41.48	34	44	1.009	3.19	8.14%	-29.37%
45		10	37.6	35.94	39.26	33	41	0.7333	2.319	6.17%	-24.09%
89		10	18.7	14.28	23.12	5	25	1.955	6.183	33.07%	38.28%
95		10	15.1	9.197	21	0	25	2.61	8.252	54.65%	50.17%
100		10	13.3	8.826	17.77	5	27	1.978	6.255	47.03%	56.11%

6d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	10	0.8000	0.4984	1.0000	0.0000	1.0000	0.1333	0.4216	52.70%	0.00%
23		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	-25.00%
45		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	-25.00%
89		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	-25.00%
95		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	-25.00%
100		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	-25.00%

Client: Ouray 002A/OS1220-002A
Test Start Date: 12/8/2020
Test Species: *C. dubia*

Control mean	M1	30.3	<i>mean repro or growth</i>
25% effect level	X	22.7	
Conc. > X	Cj	45	<i>test concentration</i>
conc. < X	Cj+1	89	<i>test concentration</i>
mean for Cj	Mj	37.6	<i>mean repro or growth</i>
mean for Cj+1	Mj+1	18.7	<i>mean repro or growth</i>
IC25		79.6	

From U.S. Environmental Protection Agency (EPA). 2002. Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms. EPA-821-R-02-013. Office of Water, Washington D.C.

Data Checked and Approved by (Initials): AR

CETIS Summary Report

Report Date: 06 Jan-21 09:20 (p 1 of 1)
Test Code/ID: A71C193 / 01-7522-7283

Fathead Minnow 7-d Larval Survival and Growth Test

GEI Consultants, Inc

Batch ID: 05-3474-3855	Test Type: Growth-Survival (7d)	Analyst:
Start Date: 08 Dec-20 12:15	Protocol: EPA/821/R-02-013 (2002)	Diluent: Mod-Hard Synthetic Water
Ending Date: 15 Dec-20 12:10	Species: Pimephales promelas	Brine:
Test Length: 7d	Taxon: Actinopterygii	Source: Aquatic Biosystems, CO Age:
Sample ID: 03-1296-4691	Code: OS1220-002A	Project: WET Quarterly Compliance Test (4Q)
Sample Date: 07 Dec-20 13:15	Material: Mining Effluent	Source: NPDES Permit #CO-0000003
Receipt Date: 08 Dec-20 09:45	CAS (PC):	Station: 002A
Sample Age: 23h (1 °C)	Client: Ouray Silver Mines	

Multiple Comparison Summary

Analysis ID	Endpoint	Comparison Method	✓	NOEL	LOEL	TOEL	TU	PMSD	S
14-0281-4650	7d Survival Rate	Steel Many-One Rank Sum Test	100	>100	n/a	1	9.97%	1	
15-1360-3326	Mean Dry Biomass-mg	Dunnett Multiple Comparison Test	100	>100	n/a	1	22.8%	1	

Point Estimate Summary

Analysis ID	Endpoint	Point Estimate Method	✓	Level	%	95% LCL	95% UCL	TU	S
03-4134-0605	7d Survival Rate	Linear Interpolation (ICPIN)	✓	EC5	45	33.27	n/a	2.222	1
			✓	EC10	100	64.8	n/a	1	
			✓	EC15	>100	n/a	n/a	<1	
			✓	EC20	>100	n/a	n/a	<1	
			✓	EC25	>100	n/a	n/a	<1	
			✓	EC40	>100	n/a	n/a	<1	
			✓	EC50	>100	n/a	n/a	<1	
19-6196-4847	Mean Dry Biomass-mg	Linear Interpolation (ICPIN)		IC5	>100	n/a	n/a	<1	1
			✓	IC10	>100	n/a	n/a	<1	
			✓	IC15	>100	n/a	n/a	<1	
			✓	IC20	>100	n/a	n/a	<1	
			✓	IC25	>100	n/a	n/a	<1	
			✓	IC40	>100	n/a	n/a	<1	
			✓	IC50	>100	n/a	n/a	<1	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits		Overlap	Decision
				Lower	Upper		
03-4134-0605	7d Survival Rate	Control Resp	1	0.8	>>	Yes	Passes Criteria
14-0281-4650	7d Survival Rate	Control Resp	1	0.8	>>	Yes	Passes Criteria
15-1360-3326	Mean Dry Biomass-mg	Control Resp	0.5102	0.25	>>	Yes	Passes Criteria
19-6196-4847	Mean Dry Biomass-mg	Control Resp	0.5102	0.25	>>	Yes	Passes Criteria
15-1360-3326	Mean Dry Biomass-mg	PMSD	0.2284	0.12	0.3	Yes	Passes Criteria

7d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	4	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
23		4	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
45		4	0.9500	0.8581	1.0000	0.9000	1.0000	0.0289	0.0577	6.08%	5.00%
89		4	0.8750	0.6748	1.0000	0.7000	1.0000	0.0629	0.1258	14.38%	12.50%
95		4	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
100		4	0.9000	0.7701	1.0000	0.8000	1.0000	0.0408	0.0817	9.07%	10.00%

Mean Dry Biomass-mg Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	4	0.5103	0.4247	0.5958	0.434	0.554	0.02689	0.05378	10.54%	0.00%
23		4	0.5098	0.3425	0.677	0.39	0.646	0.05254	0.1051	20.61%	0.10%
45		4	0.577	0.4889	0.6651	0.502	0.632	0.02767	0.05534	9.59%	-13.08%
89		4	0.5593	0.4755	0.643	0.506	0.623	0.02631	0.05262	9.41%	-9.60%
95		4	0.52	0.394	0.646	0.432	0.617	0.0396	0.0792	15.23%	-1.91%
100		4	0.5785	0.5057	0.6513	0.534	0.634	0.02286	0.04573	7.90%	-13.38%



Attachment B