

January 23, 2023

Report to: Kent Applegate Rio Algom Mining Company 201C West Santa Fe Ave Grants, NM 87020 Bill to: Accounts Payable Rio Algom Mining Company P.O. Box 218 Grants, NM 87020

cc: Michaella Gorospe, Annelia Tinklenberg, Kent Applegate, Kelly Hoehn, Drew Werth, Casandra Woodward, Shubhangi Agarwal, Anupama Subbakrishna, Revathi Ekambaram, Angela Persico

Project ID: 4513741278 ACZ Project ID: L75216

Kent Applegate:

Enclosed are revised analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on August 16, 2022 and originally reported on October 12, 2022. Refer to the case narrative for an explanation of the changes. This project was assigned to ACZ's project number, L75216. 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 L75216. 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 11, 2022. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than \$10/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 reports for five years.

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

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Sue Webber has reviewed and approved this report.





January 23, 2023

Project ID: 4513741278 ACZ Project ID: L75216

#### Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 3 groundwater samples from Rio Algom Mining Company on August 16, 2022. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L75216. 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, radiochemistry 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:

This project was revised on L75216 To add pH. No other changes were made.

1. Qualifier: N1 Applies to: L75216-01/RADIUM 226 L75216-02/RADIUM 226 L75216-03/RADIUM 226

LCSW below acceptance limits. MS within limits and used for positive control.

2. Qualifier: N1 Applies to: L75216-02/POLONIUM 210

Polonium 209 tracer recovery below acceptance limits due to sample matrix. Sample activity less than LLD.

3. Qualifier: N1A Applies to: L75216-01/POLONIUM 210 L75216-02/POLONIUM 210 L75216-03/POLONIUM 210

Polonium 209 tracer recovery below acceptance limits on Dup and MS due to sample matrix. All sample activity less than LLD.



Project ID:	4513741278
Sample ID:	17-01 KD-08132022

## Inorganic Analytical Results

ACZ Sample ID: L75216-01 Date Sampled: 08/13/22 12:40 Date Received: 08/16/22 Sample Matrix: Groundwater

Inorganic Prep										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								08/18/22 14:43	bls
Metals Analysis										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	1	0.00058	В		mg/L	0.0004	0.002	08/26/22 11:42	gjl / k
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	08/26/22 11:42	gjl / k
Barium, dissolved	M200.7 ICP	1	0.0167	В		mg/L	0.009	0.035	09/07/22 21:40	wto
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	08/26/22 11:42	gjl / k
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	08/26/22 11:42	gjl / k
Calcium, dissolved	M200.7 ICP	1	45.6			mg/L	0.1	0.5	09/07/22 21:40	wto
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	09/07/22 21:40	wtc
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	08/26/22 11:42	gjl / k
Magnesium, dissolved	M200.7 ICP	1	36.8			mg/L	0.2	1	09/12/22 22:59	aeh
Molybdenum, dissolved	M200.8 ICP-MS	1	0.00224			mg/L	0.0002	0.0005	08/26/22 11:42	gjl / k
Nickel, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.001	08/26/22 11:42	gjl / k
Potassium, dissolved	M200.7 ICP	1	6.71			mg/L	0.2	1	09/07/22 21:40	wtc
Selenium, dissolved	SM 3114 B, AA-Hydride	1	<0.002	U		mg/L	0.002	0.005	08/23/22 14:17	mlh
Sodium, dissolved	M200.7 ICP	1	218		*	mg/L	0.2	1	09/07/22 21:40	wtc
Uranium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	08/26/22 11:42	gjl / k
Wet Chemistry										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	15.0	В		mg/L	2	20	08/19/22 0:00	emk
Carbonate as CaCO3		1	<2	U		mg/L	2	20	08/19/22 0:00	emk
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	08/19/22 0:00	emk
Total Alkalinity		1	15.0	В	*	mg/L	2	20	08/19/22 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			01/23/23 0:00	calc
Sum of Anions			15			meq/L			01/23/23 0:00	calc
Sum of Cations			15			meq/L			01/23/23 0:00	calc
Chloride	SM4500CI-E	1	17.6		*	mg/L	1	2	08/30/22 10:43	mrd
Conductivity @25C	SM2510B	1	1430			umhos/cm	1	10	08/19/22 3:58	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	08/19/22 13:57	bls
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U	*	mg/L	0.02	0.1	09/02/22 1:26	pjb
pH (lab)	SM4500H+ B									
pН		1	7.2	н		units	0.1	0.1	08/19/22 0:00	emk
pH measured at		1	20.9			С	0.1	0.1	08/19/22 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	1010	Н	*	mg/L	20	40	08/22/22 15:29	svm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	<sup>C</sup> 50	694		*	mg/L	50	250	08/25/22 12:52	gkk
TDS (calculated)	Calculation		1030			mg/L			01/23/23 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.98						01/23/23 0:00	calc

REPIN.02.06.05.01

\* Please refer to Qualifier Reports for details.



Project ID:	4513741278
Sample ID:	DUP-03-08112022

# Inorganic Analytical Results

ACZ Sample ID: L75216-02 Date Sampled: 08/11/22 00:00 Date Received: 08/16/22 Sample Matrix: Groundwater

Inorganic Prep										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								08/18/22 14:50	bls
Metals Analysis										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	5	<0.002	U		mg/L	0.002	0.01	08/26/22 11:44	gjl / k
Arsenic, dissolved	M200.8 ICP-MS	5	<0.001	U		mg/L	0.001	0.005	08/26/22 11:44	gjl / k
Barium, dissolved	M200.7 ICP	5	<0.045	U		mg/L	0.045	0.175	09/07/22 21:50	wtc
Beryllium, dissolved	M200.8 ICP-MS	5	<0.0004	U		mg/L	0.0004	0.00125	08/26/22 11:44	gjl / k
Cadmium, dissolved	M200.8 ICP-MS	5	<0.00025	U		mg/L	0.00025	0.00125	08/26/22 11:44	gjl / k
Calcium, dissolved	M200.7 ICP	5	564			mg/L	0.5	2.5	09/07/22 21:50	wtc
Iron, dissolved	M200.7 ICP	5	2.78			mg/L	0.3	0.75	09/07/22 21:50	wtc
Lead, dissolved	M200.8 ICP-MS	5	<0.0005	U		mg/L	0.0005	0.0025	08/26/22 11:44	gjl / k
Magnesium, dissolved	M200.7 ICP	5	225			mg/L	1	5	09/12/22 23:03	aeh
Molybdenum, dissolved	M200.8 ICP-MS	5	0.0191			mg/L	0.001	0.0025	08/26/22 11:44	gjl / k
Nickel, dissolved	M200.8 ICP-MS	5	<0.002	U		mg/L	0.002	0.005	08/26/22 11:44	gjl / k
Potassium, dissolved	M200.7 ICP	5	10.2			mg/L	1	5	09/07/22 21:50	wtc
Selenium, dissolved	SM 3114 B, AA-Hydride	1	<0.002	U		mg/L	0.002	0.005	08/23/22 14:27	mlh
Sodium, dissolved	M200.7 ICP	5	376		*	mg/L	1	5	09/07/22 21:50	wtc
Uranium, dissolved	M200.8 ICP-MS	5	<0.0005	U		mg/L	0.0005	0.0025	08/26/22 11:44	gjl / k
Wet Chemistry										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	270			mg/L	2	20	08/19/22 0:00	emk
Carbonate as CaCO3		1	<2	U		mg/L	2	20	08/19/22 0:00	emk
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	08/19/22 0:00	emk
Total Alkalinity		1	270			mg/L	2	20	08/19/22 0:00	emk
Cation-Anion Balance	Calculation					•				
Cation-Anion Balance			-3.0			%			01/23/23 0:00	calc
Sum of Anions			68			meq/L			01/23/23 0:00	calc
Sum of Cations			64			meq/L			01/23/23 0:00	calc
Chloride	SM4500CI-E	25	537		*	mg/L	25	50	08/30/22 11:57	mrd
Conductivity @25C	SM2510B	1	4550			umhos/cm	1	10	08/19/22 4:43	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	08/19/22 13:57	bls
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U	*	mg/L	0.02	0.1	09/02/22 1:32	pjb
pH (lab)	SM4500H+ B									
pН		1	7.7	н		units	0.1	0.1	08/19/22 0:00	emk
pH measured at		1	20.8			С	0.1	0.1	08/19/22 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	2	4280	н	*	mg/L	40	80	08/22/22 15:32	svm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	<sup>2</sup> 120	2260		*	mg/L	120	600	08/25/22 12:50	gkk
TDS (calculated)	Calculation		4140			mg/L			01/23/23 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.03						01/23/23 0:00	calc

REPIN.02.06.05.01

\* Please refer to Qualifier Reports for details.



Project ID:	4513741278
Sample ID:	30-48 KD-R-08112022

## Inorganic Analytical Results

ACZ Sample ID: L75216-03 Date Sampled: 08/11/22 15:45 Date Received: 08/16/22 Sample Matrix: Groundwater

Inorganic Prep										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								08/18/22 14:57	bls
Metals Analysis										
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, dissolved	M200.8 ICP-MS	5	<0.002	U		mg/L	0.002	0.01	08/26/22 11:46	gjl / k
Arsenic, dissolved	M200.8 ICP-MS	5	<0.001	U		mg/L	0.001	0.005	08/26/22 11:46	gjl / k
Barium, dissolved	M200.7 ICP	5	<0.045	U		mg/L	0.045	0.175	09/07/22 21:53	wto
Beryllium, dissolved	M200.8 ICP-MS	5	<0.0004	U		mg/L	0.0004	0.00125	08/26/22 11:46	gjl / k
Cadmium, dissolved	M200.8 ICP-MS	5	<0.00025	U		mg/L	0.00025	0.00125	08/26/22 11:46	gjl / k
Calcium, dissolved	M200.7 ICP	5	555			mg/L	0.5	2.5	09/07/22 21:53	wto
Iron, dissolved	M200.7 ICP	5	2.82			mg/L	0.3	0.75	09/07/22 21:53	wto
Lead, dissolved	M200.8 ICP-MS	5	<0.0005	U		mg/L	0.0005	0.0025	08/26/22 11:46	gjl / k
Magnesium, dissolved	M200.7 ICP	5	219			mg/L	1	5	09/12/22 23:06	aeh
Molybdenum, dissolved	M200.8 ICP-MS	5	0.0192			mg/L	0.001	0.0025	08/26/22 11:46	gjl / k
Nickel, dissolved	M200.8 ICP-MS	5	<0.002	U		mg/L	0.002	0.005	08/26/22 11:46	gjl / k
Potassium, dissolved	M200.7 ICP	5	9.77			mg/L	1	5	09/07/22 21:53	wto
Selenium, dissolved	SM 3114 B, AA-Hydride	1	<0.002	U		mg/L	0.002	0.005	08/23/22 14:29	mlh
Sodium, dissolved	M200.7 ICP	5	370		*	mg/L	1	5	09/07/22 21:53	wtc
Uranium, dissolved	M200.8 ICP-MS	5	<0.0005	U		mg/L	0.0005	0.0025	08/26/22 11:46	gjl / k
Wet Observister						-				
Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDI	POI	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration	Bhation	Result	Quui	ΛQ	Onits	MDL	I QL	Bate	Anaryst
Ricarbonato as		1	271			ma/l	2	20	08/10/22 0.00	omk
CaCO3		I	271			mg/∟	Z	20	00/19/22 0.00	enik
Carbonate as CaCO3		1	<2	U		mg/L	2	20	08/19/22 0:00	emk
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	08/19/22 0:00	emk
Total Alkalinity		1	271			mg/L	2	20	08/19/22 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-2.4			%			01/23/23 0:00	calc
Sum of Anions			65			meq/L			01/23/23 0:00	calc
Sum of Cations			62			meq/L			01/23/23 0:00	calc
Chloride	SM4500CI-E	25	537		*	mg/L	25	50	08/30/22 11:58	mrd
Conductivity @25C	SM2510B	1	4490			umhos/cm	1	10	08/19/22 4:52	emk
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	08/19/22 13:58	bls
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U	*	mg/L	0.02	0.1	09/02/22 1:33	pjb
pH (lab)	SM4500H+ B									
pН		1	7.8	н		units	0.1	0.1	08/19/22 0:00	emk
pH measured at		1	20.7			С	0.1	0.1	08/19/22 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	2	4130	Н	*	mg/L	40	80	08/22/22 15:34	svm
Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	<sup>;</sup> 120	2100		*	mg/L	120	600	08/25/22 12:50	gkk
TDS (calculated)	Calculation		3960			mg/L			01/23/23 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.04			5			01/23/23 0:00	calc

REPIN.02.06.05.01

\* Please refer to Qualifier Reports for details.



Inorganic Reference

Report Header	Explanations		
Batch	A distinct set of samples analyzed at a specific time		
Found	Value of the QC Type of interest		
Limit	Upper limit for RPD, in %.		
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)		
MDL	Method Detection Limit. Same as Minimum Reporting Limit un	less omitted or eq	ual to the PQL (see comment #5).
	Allows for instrument and annual fluctuations.		
PCN/SCN	A number assigned to reagents/standards to trace to the manu	Ifacturer's certifica	te of analysis
PQI	Practical Quantitation Limit Synonymous with the EPA term "r	ninimum level"	······································
00	True Value of the Control Sample or the amount added to the S	Snike	
Rec	Recovered amount of the true value or spike added in % (ever	ent for LCSS_ma/	Ka)
RPD	Relative Percent Difference, calculation used for Duplicate OC	Types	
Upper	Linner Receivery Limit in % (excent for LCSS, ma/Ka)	Турез	
Somelo	Volue of the Sample of interest		
Sample	value of the Sample of Interest		
QC Sample Typ	Des		
AS	Analytical Spike (Post Digestion)	LCSWD	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	LFB	Laboratory Fortified Blank
ССВ	Continuing Calibration Blank	LFM	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	LFMD	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	I RB	Laboratory Reagent Blank
ICB	Initial Calibration Blank	MS	Matrix Spike
ICV	Initial Calibration Verification standard	MSD	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	PBS	Pren Blank - Soil
LCSS	Laboratory Control Sample - Soil	PBW/	Pren Blank - Water
LCSS	Laboratory Control Sample - Soil Duplicato	POV	Practical Quantitation Varification standard
LCSSD		FQV	
LUSW	Laboratory Control Sample - Water	SDL	Senal Dilution
QC Sample Typ	be Explanations		
Blanks	Verifies that there is no or minimal co	ntamination in the	prep method or calibration procedure.
Control Sam	ples Verifies the accuracy of the method, i	ncluding the prep	procedure.
Duplicates	Verifies the precision of the instrumer	nt and/or method.	
Spikes/Forti	fied Matrix Determines sample matrix interference	es, if any.	
Standard	Verifies the validity of the calibration.		
ACZ Qualifiers	(Qual)		
В	Analyte concentration detected at a value between MDL and P	QL. The associate	ed value is an estimated quantity.
Н	Analysis exceeded method hold time. pH is a field test with an	immediate hold ti	me.
L	Target analyte response was below the laboratory defined neg	ative threshold.	
U	The material was analyzed for, but was not detected above the	level of the asso	ciated value.
	The associated value is either the sample quantitation limit or the	he sample detecti	on limit.
Mothod Poferer	100		
(1)	EPA 600/4-83-020 Methods for Chemical Apolycic of Water a	nd Wastes Marek	1083
(1)	EPA 600/4-03-020. Methods for the Determination of Increase	a Substances, Marci	Environmental Semples, August 1002
(2)	EPA 600/R-93-100. Methods for the Determination of Motels in		environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in	1 Environmental S	samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.		
(5)	Standard Methods for the Examination of Water and Wastewal	er.	
Comments			
(1)	QC results calculated from raw data. Results may vary slightly	if the rounded va	lues are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are rep	orted on a dry wei	ght 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 of	ualifier and/or cei	rtification gualifier
	associated with the result.	,	
(5)	If the MDL equals the PQL or the MDL column is omitted the F	QL is the reportin	a limit.
(-)			5
For a compl	ete list of ACZ's Extended Qualifiers. please click:		

https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf

REP001.03.15.02

### QUIVIRA

### ACZ Project ID: L75216

Alkalinity as CaC	03		SM23208	3 - Titration									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG548776													
WG548776PBW1	PBW	08/18/22 18:19				4.6	mg/L		-20	20			
WG548776LCSW3	LCSW	08/18/22 18:38	WC220816-1	820.0001		774.6	mg/L	94	90	110			
WG548776LCSW6	LCSW	08/18/22 21:08	WC220816-1	820.0001		774.4	mg/L	94	90	110			
WG548776PBW2	PBW	08/18/22 21:16				7.9	mg/L		-20	20			
WG548776LCSW9	LCSW	08/18/22 23:26	WC220816-1	820.0001		776.6	mg/L	95	90	110			
WG548776PBW3	PBW	08/18/22 23:34				8.2	mg/L		-20	20			
L75216-01DUP	DUP	08/19/22 4:05			15	17.2	mg/L				14	20	RA
WG548776LCSW12	LCSW	08/19/22 4:25	WC220816-1	820.0001		785.1	mg/L	96	90	110			
WG548776PBW4	PBW	08/19/22 4:33				4.3	mg/L		-20	20			
L75240-05DUP	DUP	08/19/22 5:47			111	94.4	mg/L				16	20	
WG548776LCSW15	LCSW	08/19/22 8:10	WC220816-1	820.0001		788.8	mg/L	96	90	110			
Antimony, dissol	ved		M200.8 I	CP-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549310													
WG549310ICV	ICV	08/26/22 11:09	MS220701-3	.0201		.018	mg/L	90	90	110			
WG549310ICB	ICB	08/26/22 11:12				.00069	mg/L		-0.00088	0.00088			
WG549310LFB	LFB	08/26/22 11:14	MS220822-2	.01		.00985	mg/L	99	85	115			
L69768-42AS	AS	08/26/22 11:21	MS220822-2	.01	.00052	.01002	mg/L	95	70	130			
L69768-42ASD	ASD	08/26/22 11:23	MS220822-2	.01	.00052	.00962	mg/L	91	70	130	4	20	
Arsenic, dissolve	d		M200.8 I	CP-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549310													
WCE40210ICV		08/06/00 11:00	MS220701 3	05		04072	ma/l	00	00	110			
WG549310ICV		08/26/22 11:09	WI3220701-3	.05		.04973	mg/L	99	90	0.00044			
WG549310LEB	I FB	08/26/22 11:12	MS220822-2	05005		0/082	mg/L	100	85	115			
1 69768-42AS		08/26/22 11:14	MS220822-2	05005	00107	05204	ma/L	100	70	130			
L69768-42ASD	ASD	08/26/22 11:23	MS220822-2	.05005	.00107	.05355	mg/L	102	70	130	3	20	
Barium diasaha	4		M200 7 J	CD.									
	u Turno	Applyzed										1 :	Qual
	Type	E LA VZEL			Sample	Found	Unite	Pac <sup>0</sup> /	Lowor	Uppor	DDD		Quai
WG549951		, and y 200	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	
		- Analyzou	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	
WG549951ICV	ICV	09/07/22 21:19	II220906-1	2	Sample	Found 1.957	Units mg/L	Rec% 98	Lower 95	Upper 105	RPD	Limit	
WG549951ICV WG549951ICB	ICV ICB	09/07/22 21:19 09/07/22 21:25	II220906-1	2	Sample	Found 1.957 U	Units mg/L mg/L	Rec% 98	95 -0.027	Upper 105 0.027	RPD	Limit	
WG549951ICV WG549951ICB WG549951LFB	ICV ICB LFB	09/07/22 21:19 09/07/22 21:25 09/07/22 21:37	II220906-1 II220831-2	2 .502	Sample	Found 1.957 U .4875	Units mg/L mg/L	Rec% 98 97	95 -0.027 85	Upper 105 0.027 115	RPD	Limit	
WG549951ICV WG549951ICB WG549951LFB L75216-01AS	ICV ICB LFB AS	09/07/22 21:19 09/07/22 21:25 09/07/22 21:37 09/07/22 21:43	II220906-1 II220831-2 II220831-2	2 .502 .502	.0167	Found 1.957 U .4875 .5128	Units mg/L mg/L mg/L mg/L	Rec% 98 97 99	95 -0.027 85 85	Upper 105 0.027 115 115	RPD		
WG549951ICV WG549951ICB WG549951LFB L75216-01AS L75216-01ASD	ICV ICB LFB AS ASD	09/07/22 21:19 09/07/22 21:25 09/07/22 21:37 09/07/22 21:43 09/07/22 21:47	II220906-1 II220831-2 II220831-2 II220831-2	2 .502 .502 .502	.0167 .0167	Found 1.957 U .4875 .5128 .4768	Units mg/L mg/L mg/L mg/L	Rec% 98 97 99 92	95 -0.027 85 85 85 85	Upper 105 0.027 115 115 115	RPD 7	20	
WG549951ICV WG549951ICB WG549951LFB L75216-01AS L75216-01ASD Beryllium, dissol	ICV ICB LFB AS ASD	09/07/22 21:19 09/07/22 21:25 09/07/22 21:37 09/07/22 21:43 09/07/22 21:47	II220906-1 II220831-2 II220831-2 II220831-2 II220831-2	2 .502 .502 .502 CP-MS	.0167 .0167	Found 1.957 U .4875 .5128 .4768	Units mg/L mg/L mg/L mg/L	Rec% 98 97 99 92	95 -0.027 85 85 85	Upper 105 0.027 115 115 115	RPD 7	20	
WG549951ICV WG549951ICB WG549951IFB L75216-01AS L75216-01ASD Beryllium, dissol	ICV ICB LFB AS ASD Ved	09/07/22 21:19 09/07/22 21:25 09/07/22 21:37 09/07/22 21:43 09/07/22 21:47 Analyzed	II220906-1 II220831-2 II220831-2 II220831-2 II220831-2 M200.8 I PCN/SCN	2 .502 .502 .502 CP-MS QC	.0167 .0167 Sample	Found 1.957 U .4875 .5128 .4768 Found	Units mg/L mg/L mg/L mg/L Units	Rec% 98 97 99 92 Rec%	Lower 95 -0.027 85 85 85 85 Lower	Upper 105 0.027 115 115 115 115	RPD 7 RPD	20 Limit	Qual
WG549951ICV WG549951ICB WG549951LFB L75216-01AS L75216-01ASD Beryllium, dissol ACZ ID WG549310	ICV ICB LFB AS ASD ved Type	09/07/22 21:19 09/07/22 21:25 09/07/22 21:37 09/07/22 21:43 09/07/22 21:47 Analyzed	II220906-1 II220831-2 II220831-2 II220831-2 II220831-2 M200.8 I PCN/SCN	2 .502 .502 .502 CP-MS QC	.0167 .0167 .0167 Sample	Found 1.957 U .4875 .5128 .4768 Found	Units mg/L mg/L mg/L mg/L Units	Rec% 98 97 99 92 Rec%	Lower 95 -0.027 85 85 85 Lower	Upper 105 0.027 115 115 115 115 Upper	RPD 7 RPD	20 Limit	Qual
WG549951ICV WG549951ICB WG549951LFB L75216-01AS L75216-01ASD Beryllium, dissol ACZ ID WG549310 WG549310ICV	ICV ICB LFB AS ASD Ved Type	09/07/22 21:19 09/07/22 21:25 09/07/22 21:37 09/07/22 21:43 09/07/22 21:47 Analyzed 08/26/22 11:09	II220906-1 II220831-2 II220831-2 II220831-2 II220831-2 M200.8 I PCN/SCN MS220701-3	2 .502 .502 .502 CP-MS QC	.0167 .0167 .0167 Sample	Found 1.957 U .4875 .5128 .4768 Found .048686	Units mg/L mg/L mg/L Units mg/L	Rec% 98 97 99 92 Rec% 97	Lower 95 -0.027 85 85 85 Lower 90	Upper 105 0.027 115 115 115 Upper 110	RPD 7 RPD	20 Limit	Qual
WG549951ICV WG549951ICB WG549951LFB L75216-01AS L75216-01ASD Beryllium, dissol ACZ ID WG549310 WG549310ICV WG549310ICB	ICV ICB LFB AS ASD Ved Type	09/07/22 21:19 09/07/22 21:25 09/07/22 21:37 09/07/22 21:43 09/07/22 21:47 Analyzed 08/26/22 11:09 08/26/22 11:12	II220906-1 II220831-2 II220831-2 II220831-2 II220831-2 II220831-2 M200.8 I PCN/SCN MS220701-3	2 .502 .502 .502 CP-MS QC	.0167 .0167 Sample	Found 1.957 U .4875 .5128 .4768 Found .048686 U	Units mg/L mg/L mg/L mg/L Units mg/L	Rec% 98 97 99 92 Rec% 97	Lower 95 -0.027 85 85 85 Lower 90 -0.000176	Upper 105 0.027 115 115 115 Upper 110 0.000176	RPD 7 RPD	20 Limit	Qual
WG549951ICV WG549951ICB WG549951LFB L75216-01AS L75216-01ASD Beryllium, dissol ACZ ID WG549310 WG549310ICV WG549310ICB WG549310LFB	ICV ICB LFB AS ASD ved Type ICV ICB LFB	09/07/22 21:19 09/07/22 21:25 09/07/22 21:37 09/07/22 21:43 09/07/22 21:47 Analyzed 08/26/22 11:09 08/26/22 11:12 08/26/22 11:14	II220906-1   II220831-2   II220831-2   II220831-2   M200.8 I   PCN/SCN   MS220701-3   MS220822-2	2 .502 .502 .502 CP-MS QC .05	.0167 .0167 Sample	Found 1.957 U .4875 .5128 .4768 Found .048686 U .049539	Units mg/L mg/L mg/L mg/L Units Units mg/L mg/L	Rec% 98 97 99 92 Rec% 97 99	Lower 95 -0.027 85 85 85 	Upper 105 0.027 115 115 115 Upper 110 0.000176 115	RPD 7 RPD	20 Limit	Qual
WG549951ICV WG549951ICB WG549951ICB L75216-01AS L75216-01ASD <b>Beryllium, dissol</b> ACZ ID WG549310 WG549310ICV WG549310ICB WG549310LFB L69768-42AS	ICV ICB LFB AS ASD ved Type ICV ICB LFB AS	09/07/22 21:19 09/07/22 21:25 09/07/22 21:37 09/07/22 21:43 09/07/22 21:47 Analyzed 08/26/22 11:09 08/26/22 11:12 08/26/22 11:14 08/26/22 11:21	PCN/SCN   II220906-1   II220831-2   II220831-2   II220831-2   M200.8 II   PCN/SCN   MS220701-3   MS220822-2   MS220822-2	2 .502 .502 CP-MS QC .05 .05005 .05005	Sample .0167 .0167 Sample	Found 1.957 U .4875 .5128 .4768 Found .048686 U .049539 .051792	Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L	Rec% 98 97 99 92 Rec% 97 99 103	Lower 95 -0.027 85 85 85 85 <b>Lower</b> -0.000176 85 70	Upper 105 0.027 115 115 115 115 Upper 110 0.000176 115 130	RPD 7 RPD	20 Limit	Qual

## QUIVIRA

## ACZ Project ID: L75216

Cadmium, dissol	ved		M200.8 I	CP-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549310													
WG549310ICV	ICV	08/26/22 11:09	MS220701-3	.05		.048863	mg/L	98	90	110			
WG549310ICB	ICB	08/26/22 11:12				U	mg/L		-0.00011	0.00011			
WG549310LFB	LFB	08/26/22 11:14	MS220822-2	.05005		.048329	mg/L	97	85	115			
L69768-42AS	AS	08/26/22 11:21	MS220822-2	.05005	.000637	.051957	mg/L	103	70	130			
L69768-42ASD	ASD	08/26/22 11:23	MS220822-2	.05005	.000637	.053635	mg/L	106	70	130	3	20	
Calcium, dissolve	ed		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549951													
WG549951ICV	ICV	09/07/22 21:19	II220906-1	100		96.15	mg/L	96	95	105			
WG549951ICB	ICB	09/07/22 21:25				U	mg/L		-0.3	0.3			
WG549951LFB	LFB	09/07/22 21:37	II220831-2	67.98862		65.44	mg/L	96	85	115			
L75216-01AS	AS	09/07/22 21:43	II220831-2	67.98862	45.6	111.3	mg/L	97	85	115			
L75216-01ASD	ASD	09/07/22 21:47	II220831-2	67.98862	45.6	106.9	mg/L	90	85	115	4	20	
Chloride			SM45000	CI-E									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549487													
WG549487ICV	ICV	08/30/22 10:38	WI220502-12	54,945		56	mg/L	102	90	110			
WG549487ICB	ICB	08/30/22 10:38		011010		U	mg/L		-3	3			
WG549487LFB1	LFB	08/30/22 10:39	WI220328-1	29.97		30.9	mg/L	103	90	110			
WG549487LFB2	LFB	08/30/22 10:54	WI220328-1	29.97		30.97	mg/L	103	90	110			
L75156-01AS	AS	08/30/22 11:56	WI220328-1	749.25	1250	1315.88	mg/L	9	90	110			M3
L75156-02DUP	DUP	08/30/22 13:17			15.1	14.68	mg/L				3	20	
Conductivity @2	5C		SM2510E	3									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG548776													
WG548776LCSW2	LCSW	08/18/22 18:25	PCN65647	1409		1428	umhos/cm	101	90	110			
WG548776LCSW5	LCSW	08/18/22 20:54	PCN65647	1409		1420	umhos/cm	101	90	110			
WG548776LCSW8	LCSW	08/18/22 23:12	PCN65647	1409		1407	umhos/cm	100	90	110			
175216-01DUP	DUP	08/19/22 4:05		1100	1430	1429	umhos/cm	100	00	110	0	20	
WG548776I CSW11	LCSW	08/19/22 4.11	PCN65647	1409		1337	umhos/cm	95	90	110	-		
L75240-05DUP	DUP	08/19/22 5:47			195	195	umhos/cm				0	20	
WG548776LCSW14	LCSW	08/19/22 7:56	PCN65647	1409		1329	umhos/cm	94	90	110	-		
Cyanide, total			M335.4 -	Colorimetri	c w/ distil	lation							
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG548860													
WG548860ICV	ICV	08/19/22 13:40	WI220817-6	.3003		.276	mg/L	92	90	110			
WG548860ICB	ICB	08/19/22 13:41				U	mg/L		-0.003	0.003			
WG548753LRB	LRB	08/19/22 13:41				U	mg/L		-0.003	0.003			
WG548753LFB	LFB	08/19/22 13:42	WI220817-4	.2		.1958	mg/L	98	90	110			
L75263-01DUP	DUP	08/19/22 14:03			U	U	mg/L				0	20	RA
L75263-02LFM	LFM	08/19/22 14:05	WI220817-4	.2	U	.1943	mg/L	97	90	110			

### QUIVIRA

## ACZ Project ID: L75216

Iron, dissolved			M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549951													
WG549951ICV	ICV	09/07/22 21:19	II220906-1	2		1.909	mg/L	95	95	105			
WG549951ICB	ICB	09/07/22 21:25				U	mg/L		-0.18	0.18			
WG549951LFB	LFB	09/07/22 21:37	II220831-2	1.0013		.933	mg/L	93	85	115			
L75216-01AS	AS	09/07/22 21:43	II220831-2	1.0013	U	.966	mg/L	96	85	115			
L75216-01ASD	ASD	09/07/22 21:47	II220831-2	1.0013	U	.872	mg/L	87	85	115	10	20	
Lead, dissolved			M200.8 I	CP-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549310													
WG549310ICV	ICV	08/26/22 11:09	MS220701-3	.05		.05039	mg/L	101	90	110			
WG549310ICB	ICB	08/26/22 11:12				U	mg/L		-0.00022	0.00022			
WG549310LFB	LFB	08/26/22 11:14	MS220822-2	.0501		.05024	mg/L	100	85	115			
L69768-42AS	AS	08/26/22 11:21	MS220822-2	.0501	U	.05178	mg/L	103	70	130			
L69768-42ASD	ASD	08/26/22 11:23	MS220822-2	.0501	U	.0538	mg/L	107	70	130	4	20	
Magnesium, dise	solved		M200.7 I	СР									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG550253													
WG550253ICV	ICV	09/12/22 22:37	II220906-1	100		96.86	mg/L	97	95	105			
WG550253ICB	ICB	09/12/22 22:43				U	mg/L		-0.6	0.6			
WG550253LFB	LFB	09/12/22 22:56	II220831-2	49.99809		50.2	mg/L	100	85	115			
L75218-04AS	AS	09/12/22 23:35	II220831-2	49.99809	47.8	93.54	mg/L	91	85	115			
L75218-04ASD	ASD	09/12/22 23:38	II220831-2	49.99809	47.8	94.92	mg/L	94	85	115	1	20	
Molybdenum, dis	ssolved		M200.8 I	CP-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549310													
WG549310ICV	ICV	08/26/22 11:09	MS220701-3	.02		.01795	mg/L	90	90	110			
WG549310ICB	ICB	08/26/22 11:12				U	mg/L		-0.00044	0.00044			
WG549310LFB	LFB	08/26/22 11:14	MS220822-2	.05005		.04742	mg/L	95	85	115			
L69768-42AS	AS	08/26/22 11:21	MS220822-2	.05005	.00027	.05026	mg/L	100	70	130			
L69768-42ASD	ASD	08/26/22 11:23	MS220822-2	.05005	.00027	.05072	mg/L	101	70	130	1	20	
Nickel, dissolved	ł		M200.8 I	CP-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549310													
WG549310ICV	ICV	08/26/22 11:09	MS220701-3	.05		.05081	mg/L	102	90	110			
WG549310ICB	ICB	08/26/22 11:12				U	mg/L		-0.00088	0.00088			
WG549310LFB	LFB	08/26/22 11:14	MS220822-2	.05005		.04985	mg/L	100	85	115			
L69768-42AS	AS	08/26/22 11:21	MS220822-2	.05005	.00441	.05396	mg/L	99	70	130			
L69768-42ASD	ASD	08/26/22 11:23	MS220822-2	.05005	.00441	.05619	mg/L	103	70	130	4	20	

## QUIVIRA

### ACZ Project ID: L75216

Nitrate/Nitrite as	N		M353.2 -	H2SO4 pre	eserved								
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549730													
WG549730ICV	ICV	09/02/22 0:00	WI220602-3	2.4161		2.393	mg/L	99	90	110			
WG549730ICB	ICB	09/02/22 0:01				U	mg/L		-0.02	0.02			
WG549731													
WG549731LFB	LFB	09/02/22 1:15	WI220826-7	2		2.024	mg/L	101	90	110			
L65068-74AS	AS	09/02/22 1:17	WI220826-7	2	U	2.082	mg/L	104	90	110			
L65075-74DUP	DUP	09/02/22 1:20			U	U	mg/L				0	20	RA
Potassium, diss	olved		M200.7 I	СР									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549951													
WG549951ICV	ICV	09/07/22 21:19	II220906-1	20		18.95	mg/L	95	95	105			
WG549951ICB	ICB	09/07/22 21:25				.3	mg/L		-0.6	0.6			
WG549951LFB	LFB	09/07/22 21:37	II220831-2	99.95798		93.59	mg/L	94	85	115			
L75216-01AS	AS	09/07/22 21:43	II220831-2	99.95798	6.71	102.8	mg/L	96	85	115			
L75216-01ASD	ASD	09/07/22 21:47	II220831-2	99.95798	6.71	98.95	mg/L	92	85	115	4	20	
Residue, Filteral	ble (TDS	6) @180C	SM2540	С									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG548951													
WG548951PBW	PBW	08/22/22 14:45				U	mg/L		-20	20			
WG548951LCSW	LCSW	08/22/22 14:47	PCN66040	1000		964	mg/L	96	80	120			
L75163-01DUP	DUP	08/22/22 15:16			26300	26380	mg/L				0	10	
Selenium, disso	lved		SM 3114	B, AA-Hyd	ride								
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG548994													
WG548994ICV	ICV	08/23/22 12:03	SE220608-3	.025		.0265	mg/L	106	90	110			
WG548994ICB	ICB	08/23/22 12:06				U	mg/L		-0.006	0.006			
WG549000													
WG549000LRB	LRB	08/23/22 14:02				U	mg/L		-0.006	0.006			
WG549000LFB	LFB	08/23/22 14:04	SE220608-5	.0225		.0242	mg/L	108	85	115			
L75216-01LFM	LFM	08/23/22 14:19	SE220608-5	.0225	U	.0217	mg/L	96	85	115			
L75216-01LFMD	LFMD	08/23/22 14:21	SE220608-5	.0225	U	.0217	mg/L	96	85	115	0	20	
Sodium, dissolv	ed		M200.7 I	СР									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549951													
WG549951ICV	ICV	09/07/22 21:19	II220906-1	100		94.67	mg/L	95	95	105			
WG549951ICB	ICB	09/07/22 21:25				U	mg/L		-0.6	0.6			
WG549951LFB	LFB	09/07/22 21:37	II220831-2	100.0023		93.02	mg/L	93	85	115			
L75216-01AS	AS	09/07/22 21:43	II220831-2	100.0023	218	305.9	mg/L	88	85	115			
L75216-01ASD	ASD	09/07/22 21:47	II220831-2	100.0023	218	299	mg/L	81	85	115	2	20	MA

## QUIVIRA

### ACZ Project ID: L75216

Sulfate			D516-02/	-07/-11 - TL	IRBIDIM	ETRIC							
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG549233													
WG549233ICB	ICB	08/25/22 8:52				U	mg/L		-3	3			
WG549233ICV	ICV	08/25/22 8:52	WI220815-2	19.54		20.2	mg/L	103	90	110			
WG549233LFB	LFB	08/25/22 11:28	WI220415-3	9.95		9.6	mg/L	96	90	110			
L75146-03DUP	DUP	08/25/22 12:49			3310	3275.9	mg/L				1	20	
L75156-01AS	AS	08/25/22 12:49	SO4TURB	10.000008	3660	3612.6	mg/L	-474	90	110			M3
Uranium, disso	lved		M200.8 I	CP-MS									
Uranium, disso ACZ ID	Ived Type	Analyzed	M200.8 I	CP-MS QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
Uranium, disso ACZ ID WG549310	lved Type	Analyzed	M200.8 I	CP-MS QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
Uranium, disso ACZ ID WG549310 WG549310ICV	Ived Type ICV	Analyzed 08/26/22 11:09	M200.8 I PCN/SCN MS220701-3	CP-MS QC .05	Sample	Found .05086	Units mg/L	Rec%	Lower 90	Upper 110	RPD	Limit	Qual
Uranium, disso ACZ ID WG549310 WG549310ICV WG549310ICB	Ived Type ICV ICB	Analyzed 08/26/22 11:09 08/26/22 11:12	M200.8 I PCN/SCN MS220701-3	CP-MS QC .05	Sample	Found .05086 U	Units mg/L mg/L	Rec%	Lower 90 -0.00022	Upper 110 0.00022	RPD	Limit	Qual
Uranium, disso ACZ ID WG549310 WG549310ICV WG549310ICB WG549310LFB	Ived Type ICV ICB LFB	Analyzed 08/26/22 11:09 08/26/22 11:12 08/26/22 11:14	M200.8 M PCN/SCN MS220701-3 MS220822-2	CP-MS QC .05 .05	Sample	Found .05086 U .0508	Units mg/L mg/L mg/L	Rec% 102 102	Lower 90 -0.00022 85	Upper 110 0.00022 115	RPD	Limit	Qual
Uranium, disso ACZ ID WG549310 WG549310ICV WG549310ICB WG549310LFB L69768-42AS	Ived Type ICV ICB LFB AS	Analyzed 08/26/22 11:09 08/26/22 11:12 08/26/22 11:14 08/26/22 11:21	M200.8 H PCN/SCN MS220701-3 MS220822-2 MS220822-2	CP-MS QC .05 .05 .05	Sample	Found .05086 U .0508 .05272	Units mg/L mg/L mg/L mg/L	Rec% 102 102 105	Lower 90 -0.00022 85 70	Upper 110 0.00022 115 130	RPD	Limit	Qual

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### **Rio Algom Mining Company**

Inorganic Extended Qualifier Report

### ACZ Project ID: L75216

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L75216-01	NG549487	Chloride	SM4500CI-E	М3	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.
	WG548860	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).
	WG549731	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).
	WG548951	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	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.
	WG549951	Sodium, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG549233	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	М3	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.
	WG548776	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).
L75216-02	NG549487	Chloride	SM4500CI-E	М3	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.
	WG548860	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).
	WG549731	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).
	WG548951	Residue, Filterable (TDS) @180C	SM2540C	H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
			SM2540C	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			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.
	WG549951	Sodium, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG549233	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	М3	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.

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### **Rio Algom Mining Company**

ACZ Project ID: L75216

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L75216-03	NG549487	Chloride	SM4500CI-E	М3	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.
	WG548860	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).
	WG549731	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).
	WG548951	Residue, Filterable (TDS) @180C	SM2540C	H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
			SM2540C	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			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.
	WG549951	Sodium, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG549233	Sulfate	D516-02/-07/-11 - TURBIDIMETRIC	М3	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.

<b>Rio Algom Min</b> Project ID: Sample ID: Locator:	n <b>ing Co</b> 45137 17-01	<b>mpany</b> 41278 KD-08132022			ACZ Dat Dat Sar	Sample ID te Sampled e Received nple Matrix	: <b>L752</b> : 08/13 : 08/16 : Grou	<b>16-01</b> 3/22 12: 5/22 ndwate	40 r
Lead 210, dissolved EICHROM, OTW01	d 1							Pre	p Method:
Parameter Lead 210, dissolved	d	Measure Date 09/21/22 11:45	Prep Date	Result 1.9	Error(+/-) 1.2	LLD 2.9	Units pCi/L	XQ *	Analyst tmb
Polonium 210, diss HASL Po-01-RC	olved							Pre	p Method:
Parameter		Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Polonium 210, diss	olved	09/26/22 18:40		0.528	3.1	3.9	pCi/L	*	ang
Radium 226, dissol M903.1	lved							Pre	p Method:
Parameter		Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissol	lved	09/27/22 0:04		0.15	0.1	0.51	pCi/L	*	ang
Radium 228, dissol M9320	lved							Pre	p Method:
Parameter		Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, dissol	lved	10/07/22 15:32		0.29	0.91	2.2	pCi/L		jhd
Thorium 230, disso ESM 4506	lved							Pre	p Method:

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Measure Date

09/29/22 7:35

Prep Date

REPRC.02.06.05.01

Parameter

Thorium 230, dissolved

Result Error(+/-)

0.63

0.69

1.39

XQ

\*

pCi/L

Analyst

msm

Rio Algom MiningProject ID:451Sample ID:DULocator:	<b>Company</b> 13741278 P-03-08112022			ACZ Dat Date Sar	Sample ID e Sampled e Received nple Matrix	: <b>L752</b> : 08/11 : 08/16 :: Grou	<b>16-02</b> 1/22 0:0 5/22 ndwate	00 r
Lead 210, dissolved EICHROM, OTW01							Pre	ep Method:
Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	09/21/22 14:10		0.32	1.5	3.6	pCi/L	*	tmb
Polonium 210, dissolved HASL Po-01-RC	I						Pre	ep Method:
Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Polonium 210, dissolved	09/26/22 18:40		0.168	7.4	9.7	pCi/L	*	ang
Radium 226, dissolved M903.1							Pre	ep Method:
Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	09/27/22 0:05		0.37	0.14	0.35	pCi/L	*	ang
Radium 228, dissolved M9320							Pre	ep Method:
Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, dissolved	10/07/22 15:32		5.4	1.2	2.5	pCi/L		jhd
Thorium 230, dissolved ESM 4506							Pre	ep Method:
Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst



**Laboratories**, Inc.

REPRC.02.06.05.01

Thorium 230, dissolved

09/29/22 14:06

0.978

0.58

0.71

pCi/L

\*

msm

AGZ Laboratories, Inc. 2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493				RadioChemis Analytical Res			
Rio Algom M	lining Company	ACZ Sample	e ID:	L75216-03			
Project ID:	4513741278	Date Samp	pled:	08/11/22 15:45			
Sample ID:	30-48 KD-R-08112022	Date Recei	ived:	08/16/22			
Locator:		Sample Ma	atrix:	Groundwater			
Lead 210, dissol	ved			Prep M			
EICHROM, OTW	/01						

Prep Date

Prep Method:

Prep Method:

Prep Method:

msm

Analyst

tmb

09/21/22 14:10

09/29/22 14:05

### 216-03

Result	Error(+/-)	LLD	Units
1.6	1.5	3.6	pCi/L

HASL Po-01-RC								
Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Polonium 210, dissolved	09/26/22 18:40		0.614	3.6	4.6	pCi/L	*	ang
Radium 226, dissolved							Pre	p Method:

M903.1

Parameter

Lead 210, dissolved

Polonium 210, dissolved

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	09/27/22 0:07		0.37	0.15	0.47	pCi/L	*	ang

Radium 228, dissolved

Thorium 230, dissolved

M9320

Parameter Radium 228, dissolved	Measure Date 10/07/22 15:32	Prep Date	Result 5	Error(+/-) 1.1	LLD 1.9	Units pCi/L	XQ	Analyst jhd
Thorium 230, dissolved ESM 4506							Pre	p Method:
Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst

1.11

0.77

1.1

pCi/L

\*



## Radiochemistry Reference

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

Report Head	der Explanations
Batch	A distinct set of samples analyzed at a specific time
Error(+/-	) Calculated sample specific uncertainty
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
LCL	Lower Control Limit, in % (except for LCSS, mg/Kg)
LLD	Calculated sample specific Lower Limit of Detection
PCN/SC	N A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RER	Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
UCL	Upper Control Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

#### QC Sample Types

	•		
DUP	Sample Duplicate	MS/MSD	Matrix Spike/Matrix Spike Duplicate
LCSS	Laboratory Control Sample - Soil	PBS	Prep Blank - Soil
LCSW	Laboratory Control Sample - Water	PBW	Prep Blank - Water

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

#### ACZ Qualifiers (Qual)

H Analysis exceeded method hold time.

### Method Prefix Reference

М	EPA methodology, including those under SDWA, CWA, and RCRA
SM	Standard Methods for the Examination of Water and Wastewater.
D	ASTM
RP	DOE
ESM	DOE/ESM

### Comments

(1)	Solid matrices are reported on a dry weight basis.
(2)	Preparation method: "Method" indicates preparation defined in analytical method.
(3)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(4)	An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification
	qualifier associated with the result.

For a complete list of ACZ's Extended Qualifiers, please click:

https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf

REP003.09.12.01

### QUIVIRA

### ACZ Project ID: L75216

Lead 210, disso	lved		EICHROM,	OTW01									Unit	s: pCi/L		
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG549908											_					
WG549908LCSW	LCSW	09/20/22	PCN65979	99.05				100	3.5	3.8	101	55	121			
WG549908PBW	PBW	09/20/22						97	1.6	4.5			9			
L75161-01DUP	DUP-RER	09/20/22			0.38	1.4	3.7	-2.9	1.6	4.6				1.54	2	
L75161-01DUP	DUP-RPD	09/20/22			0.38	1.4	3.7	-2.9	1.6	4.6				260	20	RG
L75187-01MS	MS	09/21/22	PCN65979	99.04	-0.62	1.2	3.2	91	3.3	3.5	93	55	121			
L75216-01DUP	DUP-RER	09/21/22			1.9	1.2	2.9	2.2	1.4	3.4				0.16	2	
L75216-01DUP	DUP-RPD	09/21/22			1.9	1.2	2.9	2.2	1.4	3.4				15	20	
Polonium 210, c	dissolved		HASL Po-01	I-RC									Unit	s: pCi/L		
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG551215																
WG551215LCSW	LCSW	09/26/22	PCN65979	276				175	46	8	63	51	128			
WG551215PBW	PBW	09/26/22						2.46	4	4			8			
L75186-02DUP	DUP-RPD	09/26/22			0.429	6.9	8.7	.357	6.3	7.8				18	20	
L75216-02MS	MS	09/26/22	PCN65979	276	0.168	7.4	9.7	184	50	8.4	67	51	128			
Radium 226, dis	solved		M903.1										Unit	s: pCi/L		
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG550403																
WG550403LCSW	LCSW	09/27/22	PCN65743	20				2	0.19	0.1	10	43	148			N1
WG550403PBW	PBW	09/27/22						.07	0.07	0.07			0.14			
L75218-02DUP	DUP-RER	09/27/22			0.18	0.11	0.46	.31	0.13	0.77				0.76	2	
L75218-02DUP	DUP-RPD	09/27/22			0.18	0.11	0.46	.31	0.13	0.77				53	20	RG
L75340-01MS	MS	09/27/22	PCN65743	40	-0.04	0.16	0.19	20	0.84	0.22	50	43	148			
L75340-06DUP	DUP-RPD	09/27/22			-0.15	0.2	0.23	.19	0.17	0.17				1700	20	RG
L75340-06DUP	DUP-RER	09/27/22			-0.15	0.2	0.23	.19	0.17	0.17				1.29	2	

### QUIVIRA

### ACZ Project ID: L75216

Radium 228, dis	solved		M9320										Unit	t <b>s:</b> pCi/L		
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
WG551666																
WG551666LCSW	LCSW	10/06/22	PCN623694	9.92				11	1.5	2.6	111	47	123			
WG551666PBW	PBW	10/06/22						05	0.88	2.3			4.6			
L75155-01DUP	DUP-RPD	10/06/22			3	0.92	1.9	3.4	1	2.1				13	20	
L75155-03MS	MS	10/06/22	PCN623694	9.92	0.1	0.95	2.3	8.4	1.3	2.3	84	47	123			
L75216-03DUP	DUP-RPD	10/07/22			5	1.1	1.9	5.6	1.2	2.2				11	20	
Thorium 230. di	ssolved		ESM 4506										Unit	ts∙ nCi/l		
, .													•	<b></b> po#2		
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
ACZ ID WG550783	Туре	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
ACZ ID WG550783 WG550783LCSW	Type LCSW	Analyzed 09/29/22	PCN/SCN PCN63437	QC 200	Sample	Error	LLD	Found 195	Error 25	LLD 0.34	Rec%	Lower 91	Upper 126	RPD/RER	Limit	Qual
ACZ ID WG550783 WG550783LCSW WG550783PBW	Type LCSW PBW	Analyzed 09/29/22 09/29/22	PCN/SCN PCN63437	QC 200	Sample	Error	LLD	Found 195 .262	Error 25 0.25	LLD 0.34 0.38	Rec% 98	Lower 91	Upper 126 0.76	RPD/RER	Limit	Qual
ACZ ID WG550783 WG550783LCSW WG550783PBW L75158-01DUP	Type LCSW PBW DUP-RER	Analyzed 09/29/22 09/29/22 09/29/22	PCN/SCN PCN63437	QC 200	Sample 0.619	Error 0.65	LLD 1	Found 195 .262 2.59	Error 25 0.25 1.3	LLD 0.34 0.38 1.5	Rec% 98	Lower 91	Upper 126 0.76	RPD/RER	Limit 2	Qual
ACZ ID WG550783 WG550783LCSW WG550783PBW L75158-01DUP L75158-01DUP	Type LCSW PBW DUP-RER DUP-RPD	Analyzed 09/29/22 09/29/22 09/29/22 09/29/22	PCN/SCN PCN63437	QC 200	Sample 0.619 0.619	Error 0.65 0.65	LLD 1 1	Found 195 .262 2.59 2.59	Error 25 0.25 1.3 1.3	LLD 0.34 0.38 1.5 1.5	Rec% 98	Lower 91	Upper 126 0.76	RPD/RER 1.36 123	Limit 2 20	Qual
ACZ ID WG550783 WG550783LCSW WG550783PBW L75158-01DUP L75158-01DUP L75158-01DUP L75301-01DUP	Type LCSW PBW DUP-RER DUP-RPD DUP-RPD	Analyzed 09/29/22 09/29/22 09/29/22 09/29/22 09/29/22	PCN/SCN PCN63437	QC 200	Sample 0.619 0.619 0.828	Error 0.65 0.65 0.59	LLD 1 1 0.84	Found 195 .262 2.59 2.59 1.04	Error 25 0.25 1.3 1.3 0.6	LLD 0.34 0.38 1.5 1.5 0.76	Rec% 98	Lower 91	Upper 126 0.76	RPD/RER 1.36 123 23	Limit 2 20 20	Qual RG RG
ACZ ID WG550783 WG550783LCSW WG550783PBW L75158-01DUP L75158-01DUP L75301-01DUP L75301-01DUP	Type LCSW PBW DUP-RER DUP-RPD DUP-RPD DUP-RER	Analyzed 09/29/22 09/29/22 09/29/22 09/29/22 09/29/22 09/29/22	PCN/SCN PCN63437	QC 200	0.619 0.619 0.828 0.828	Error 0.65 0.65 0.59 0.59	1 1 0.84 0.84	Found 195 .262 2.59 2.59 1.04 1.04	25 0.25 1.3 1.3 0.6 0.6	0.34 0.38 1.5 1.5 0.76 0.76	Rec% 98	Lower 91	Upper 126 0.76	1.36 123 23 0.25	Limit 2 20 20 2	Qual RG RG

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### **Rio Algom Mining Company**

### ACZ Project ID: L75216

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L75216-01	NG551215	Polonium 210, dissolved	HASL Po-01-RC	N1A	See Case Narrative.
	WG550403	Radium 226, dissolved	M903.1	N1	See Case Narrative.
			M903.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG550783	Thorium 230, dissolved	ESM 4506	D1	Sample required dilution due to matrix.
			ESM 4506	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
L75216-02	WG551215	Polonium 210, dissolved	HASL Po-01-RC	N1	See Case Narrative.
			HASL Po-01-RC	N1A	See Case Narrative.
	WG550403	Radium 226, dissolved	M903.1	N1	See Case Narrative.
			M903.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG550783	Thorium 230, dissolved	ESM 4506	D1	Sample required dilution due to matrix.
			ESM 4506	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
L75216-03	NG549908	Lead 210, dissolved	EICHROM, OTW01	D1	Sample required dilution due to matrix.
	WG551215	Polonium 210, dissolved	HASL Po-01-RC	N1A	See Case Narrative.
	WG550403	Radium 226, dissolved	M903.1	N1	See Case Narrative.
			M903.1	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.
	WG550783	Thorium 230, dissolved	ESM 4506	D1	Sample required dilution due to matrix.
			ESM 4506	RG	Sample concentration is less than 5x LLD; RPD was not used for data validation. Replicate Error Ratio (RER) is less than 2. Precision judged to be in control.



ACZ Project ID: L75216

Radiochemistry

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

Lead 210, dissolved Polonium 210, dissolved Thorium 230, dissolved EICHROM, OTW01 HASL Po-01-RC ESM 4506

ACZ	Laboratories, Inc.	
2773 Downhill Drive	Steamboat Springs, CO 80487 (800) 33	4-5493

Rio Algom Mining Company ACZ Pro	oject ID:		L75216
4512060294 Date Re	ceived: 0	8/16/202	22 12:03
Recei	ved By:		
Date	Printed:	8/	17/2022
Receipt Verification			
	YES	NO	NA
1) is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	Х		
3) Does this project require special handling procedures such as CLP protocol?		Х	
4) Are any samples NRC licensable material?	Х		
5) If samples are received past hold time, proceed with requested short hold time analyses?	Х		
6) Is the Chain of Custody form complete and accurate?	Х		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		Х	
Samples/Containers			
	YES	NO	NA
8) Are all containers intact and with no leaks?	Х		
9) Are all labels on containers and are they intact and legible?	Х		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	Х		
11) For preserved bottle types, was the pH checked and within limits? <sup>1</sup>	Х		
12) Is there sufficient sample volume to perform all requested work?	Х		
13) Is the custody seal intact on all containers?			Х
14) Are samples that require zero headspace acceptable?			Х
15) Are all sample containers appropriate for analytical requirements?	Х		
16) Is there an Hg-1631 trip blank present?			Х
17) Is there a VOA trip blank present?			Х
18) Were all samples received within hold time?	Х		
	NA indica	tes Not Ap	plicable

### Chain of Custody Related Remarks

**Client Contact Remarks** 

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
6792	1.8	<=6.0	15	N/A
4594	1.3	<=6.0	15	N/A

#### Was ice present in the shipment container(s)?

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

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





ACZ Project ID: L75216 Date Received: 08/16/2022 12:03 Received By: Date Printed: 8/17/2022

<sup>1</sup> 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).

Accredited 2773 Environmental Environmental Stear (970)	Downhill Drive mboat Springs, CO 80 ) 879-6590	487 [	75	21	6	CI	HAIN	of (	CUS	TOD	Y
Report to:				~~		0		Δ			
Name: Kent Applegate		ļ	Addres	s:20		Sant		AVE	enue		
Company: Rio Algom Mining LLC		ļ	Grai			5702					
E-mail: Kent. Applegate@bl	np.com	Ľ	Teleph	one: 5	05-8	<u>01-1</u>	/61				
Copy of Report to:											
Name: See Remarks			E-mail:	See	Rem	arks					
Company:			Teleph	ione:							
Invoice to:											
Name: Kent Applegate			Addres	s: 20	1 C	San	te Fe	e Ave	enue	1	
Company Rio Algom Mining LLC		ŀ	Gra	nts N	MI 8	3702	0				
F-mail Kent.Applegate@bl	hp.com	ŀ	Teleph	one: 5	05-8	301-1	761				
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analysis before expiration, shall ACZ pro	cceed with requested	short HT	analys	ses?					NO	Ţ	
If "NO" then ACZ will contact client for further instruction. If neit	her "YES" nor "NO" is indicated, A	CZ will proce	ed with the	e requested	analyses, e	even if HT is	expired, ar	nd data wiil	be qualified		
Are samples for SDWA Compliance Mon	itoring?	01 600	Yes			No	<u> </u>				
r yes, please include state forms. Result	ts will be reported to P			M		71	8702	<u></u>	Time 7	ana MST	
Sampler's Name: <u>Nony Hoering</u> S	ampler's Site Informat	UON the authenti	STATE N city and val	idity of this	sample. I	∠IP CO understand	that intention	onally misla	beling the ti	me/date/loca	ition or
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