

January 05, 2021

Report to:

Kent Applegate  
Rio Algom Mining Company  
P.O. Box 218  
Grants, NM 87020

Bill to:

Accounts Payable  
Rio Algom Mining Company  
P.O. Box 218  
Grants, NM 87020

cc: Clark Short, Angela Persico

Project ID: 4508122295

ACZ Project ID: L62226

Kent Applegate:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 15, 2020. This project has been assigned to ACZ's project number, L62226. 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 L62226. 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 February 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.



Scott Habermehl has reviewed  
and approved this report.



Rio Algom Mining Company

January 05, 2021

Project ID: 4508122295

ACZ Project ID: L62226

**Sample Receipt**

ACZ Laboratories, Inc. (ACZ) received 4 groundwater samples from Rio Algom Mining Company on October 15, 2020. 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 L62226. 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:

1. (N1) Applies to: /TOTAL DISSOLVED SOLIDS

Oven range is 80 C to 91 C. Over the weekend, the oven had a minor exceedance in oven temperature. When the oven temperature was checked on Monday 10/19/20, the max temp read at 93.4 C. The WG was removed from the oven on 10/19/20 when the oven was back in range. The WG was examined and there was no splattering of samples.

2. (N1) Applies to: L62226-03/LEAD 210

Sample carrier recovery outside of acceptance limits. Client ID has history of matrix interference and obtaining adequate carrier recovery. Sample already run on dilution.

**Rio Algom Mining Company**

Project ID: 4508122295  
Sample ID: 19-77 TRB

ACZ Sample ID: **L62226-01**  
Date Sampled: 10/12/20 15:31  
Date Received: 10/15/20  
Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	2	129		*	mg/L	0.2	1	10/22/20 12:35	kja
Iron, dissolved	M200.7 ICP	2	<0.12	U		mg/L	0.12	0.3	10/22/20 12:35	kja
Magnesium, dissolved	M200.7 ICP	2	66.4		*	mg/L	0.4	2	10/22/20 12:35	kja
Molybdenum, dissolved	M200.8 ICP-MS	2	0.00384			mg/L	0.0004	0.001	10/22/20 18:47	bsu
Nickel, dissolved	M200.8 ICP-MS	2	0.00202			mg/L	0.0008	0.002	10/22/20 18:47	bsu
Potassium, dissolved	M200.7 ICP	2	7.89			mg/L	0.4	2	10/22/20 12:35	kja
Selenium, dissolved	SM 3114 B, AA-Hydride	1	<0.002	U	*	mg/L	0.002	0.005	10/22/20 13:37	llr
Sodium, dissolved	M200.7 ICP	2	936		*	mg/L	0.4	2	10/22/20 12:35	kja
Uranium, dissolved	M200.8 ICP-MS	2	0.00629			mg/L	0.0002	0.001	10/22/20 18:47	bsu

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	472			mg/L	2	20	10/16/20 0:00	eep
Carbonate as CaCO3		1	32.3			mg/L	2	20	10/16/20 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	10/16/20 0:00	eep
Total Alkalinity		1	504			mg/L	2	20	10/16/20 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			1.9			%			01/05/21 0:00	calc
Sum of Anions			51			meq/L			01/05/21 0:00	calc
Sum of Cations			53			meq/L			01/05/21 0:00	calc
Chloride	SM4500Cl-E	1	15.8		*	mg/L	0.5	2	10/21/20 15:27	wtc
Conductivity @25C	SM2510B	1	3160			umhos/cm	1	10	10/16/20 22:37	eep
Cyanide, Total	D7511-09	1	0.009	B		mg/L	0.003	0.01	10/21/20 13:51	mss2
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.395			mg/L	0.02	0.1	10/24/20 1:39	pjb
Residue, Filterable (TDS) @180C	SM2540C	2	3390		*	mg/L	40	80	10/16/20 17:43	eep
Sulfate	D516-02/-07/-11 - Turbidimetric	100	1920		*	mg/L	100	500	10/22/20 15:13	wtc
TDS (calculated)	Calculation		3380			mg/L			01/05/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.00						01/05/21 0:00	calc

### Rio Algom Mining Company

Project ID: 4508122295

Sample ID: 36-07 KD

ACZ Sample ID: **L62226-02**

Date Sampled: 10/13/20 10:44

Date Received: 10/15/20

Sample Matrix: Groundwater

#### Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	5	<0.25	U		mg/L	0.25	1.25	10/22/20 12:38	kja
Arsenic, dissolved	M200.8 ICP-MS	5	0.00293	B		mg/L	0.001	0.005	10/22/20 18:49	bsu
Barium, dissolved	M200.7 ICP	5	0.0475	B		mg/L	0.035	0.175	10/22/20 12:38	kja
Beryllium, dissolved	M200.8 ICP-MS	5	0.000701	B		mg/L	0.0004	0.00125	10/22/20 18:49	bsu
Boron, dissolved	M200.7 ICP	5	0.230	B		mg/L	0.1	0.5	10/22/20 12:38	kja
Cadmium, dissolved	M200.8 ICP-MS	5	<0.00025	U		mg/L	0.00025	0.00125	10/22/20 18:49	bsu
Calcium, dissolved	M200.7 ICP	5	672			mg/L	0.5	2.5	10/22/20 12:38	kja
Chromium, dissolved	M200.8 ICP-MS	5	<0.0025	U		mg/L	0.0025	0.01	10/22/20 18:49	bsu
Cobalt, dissolved	M200.7 ICP	5	<0.05	U		mg/L	0.05	0.25	10/22/20 12:38	kja
Copper, dissolved	M200.7 ICP	5	<0.05	U		mg/L	0.05	0.25	10/22/20 12:38	kja
Iron, dissolved	M200.7 ICP	5	15.7			mg/L	0.3	0.75	10/22/20 12:38	kja
Lead, dissolved	M200.8 ICP-MS	5	<0.0005	U		mg/L	0.0005	0.0025	10/22/20 18:49	bsu
Magnesium, dissolved	M200.7 ICP	5	249			mg/L	1	5	10/22/20 12:38	kja
Manganese, dissolved	M200.7 ICP	5	14.4			mg/L	0.05	0.25	10/22/20 12:38	kja
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/28/20 16:20	llr
Molybdenum, dissolved	M200.8 ICP-MS	5	0.00534			mg/L	0.001	0.0025	10/22/20 18:49	bsu
Nickel, dissolved	M200.8 ICP-MS	5	0.0273			mg/L	0.002	0.005	10/22/20 18:49	bsu
Potassium, dissolved	M200.7 ICP	5	14.5			mg/L	1	5	10/22/20 12:38	kja
Selenium, dissolved	SM 3114 B, AA-Hydride	1	<0.002	U		mg/L	0.002	0.005	10/22/20 13:39	llr
Selenium, dissolved	M200.8 ICP-MS	5	0.00122	B		mg/L	0.0005	0.00125	10/22/20 18:49	bsu
Silver, dissolved	M200.7 ICP	5	<0.05	U	*	mg/L	0.05	0.125	10/22/20 12:38	kja
Sodium, dissolved	M200.7 ICP	5	387		*	mg/L	1	5	10/22/20 12:38	kja
Thallium, dissolved	M200.8 ICP-MS	5	<0.0005	U		mg/L	0.0005	0.0025	10/22/20 18:49	bsu
Uranium, dissolved	M200.8 ICP-MS	5	0.0357			mg/L	0.0005	0.0025	10/22/20 18:49	bsu
Zinc, dissolved	M200.7 ICP	5	<0.1	U		mg/L	0.1	0.25	10/22/20 12:38	kja

**Rio Algom Mining Company**

Project ID: 4508122295  
Sample ID: 36-07 KD

ACZ Sample ID: **L62226-02**  
Date Sampled: 10/13/20 10:44  
Date Received: 10/15/20  
Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	297			mg/L	2	20	10/16/20 0:00	eep
Carbonate as CaCO3		1	<2	U		mg/L	2	20	10/16/20 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	10/16/20 0:00	eep
Total Alkalinity		1	297			mg/L	2	20	10/16/20 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-1.4			%			01/05/21 0:00	calc
Sum of Anions			75			meq/L			01/05/21 0:00	calc
Sum of Cations			73			meq/L			01/05/21 0:00	calc
Chloride	M300.0 - Ion Chromatography	50	886			mg/L	20	100	10/28/20 0:51	krh
Cyanide, Total	D7511-09	1	0.016			mg/L	0.003	0.01	10/21/20 13:57	mss2
Fluoride	M300.0 - Ion Chromatography	50	<2.5	U	*	mg/L	2.5	12.5	10/30/20 18:24	krh
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	<0.02	U		mg/L	0.02	0.1	10/24/20 1:42	pjb
pH (lab)	SM4500H+ B									
pH		1	7.7	H		units	0.1	0.1	10/16/20 0:00	eep
pH measured at		1	21.1			C	0.1	0.1	10/16/20 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	2	4480		*	mg/L	40	80	10/16/20 17:46	eep
Sulfate	M300.0 - Ion Chromatography	50	2110			mg/L	20	100	10/28/20 0:51	krh
TDS (calculated)	Calculation		4530			mg/L			01/05/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.99						01/05/21 0:00	calc

**Rio Algom Mining Company**

Project ID: 4508122295  
Sample ID: 36-08 TRA

ACZ Sample ID: **L62226-03**  
Date Sampled: 10/13/20 12:00  
Date Received: 10/15/20  
Sample Matrix: Groundwater

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	20	<1	U		mg/L	1	5	10/22/20 12:42	kja
Arsenic, dissolved	M200.8 ICP-MS	20	<0.004	U		mg/L	0.004	0.02	10/22/20 18:51	bsu
Barium, dissolved	M200.7 ICP	20	<0.14	U		mg/L	0.14	0.7	10/22/20 12:42	kja
Beryllium, dissolved	M200.8 ICP-MS	20	<0.0016	U		mg/L	0.0016	0.005	10/22/20 18:51	bsu
Boron, dissolved	M200.7 ICP	20	0.686	B		mg/L	0.4	2	10/22/20 12:42	kja
Cadmium, dissolved	M200.8 ICP-MS	20	0.00172	B		mg/L	0.001	0.005	10/22/20 18:51	bsu
Calcium, dissolved	M200.7 ICP	20	479			mg/L	2	10	10/22/20 12:42	kja
Chromium, dissolved	M200.8 ICP-MS	20	<0.01	U		mg/L	0.01	0.04	10/22/20 18:51	bsu
Cobalt, dissolved	M200.7 ICP	20	<0.2	U		mg/L	0.2	1	10/22/20 12:42	kja
Copper, dissolved	M200.7 ICP	20	<0.2	U		mg/L	0.2	1	10/22/20 12:42	kja
Iron, dissolved	M200.7 ICP	20	<1.2	U		mg/L	1.2	3	10/22/20 12:42	kja
Lead, dissolved	M200.8 ICP-MS	20	<0.002	U		mg/L	0.002	0.01	10/22/20 18:51	bsu
Magnesium, dissolved	M200.7 ICP	20	5460			mg/L	4	20	10/22/20 12:42	kja
Manganese, dissolved	M200.7 ICP	20	9.44			mg/L	0.2	1	10/22/20 12:42	kja
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/28/20 16:21	llr
Molybdenum, dissolved	M200.8 ICP-MS	20	<0.004	U		mg/L	0.004	0.01	10/22/20 18:51	bsu
Nickel, dissolved	M200.8 ICP-MS	20	0.110			mg/L	0.008	0.02	10/22/20 18:51	bsu
Potassium, dissolved	M200.7 ICP	20	19.4	B		mg/L	4	20	10/22/20 12:42	kja
Selenium, dissolved	SM 3114 B, AA-Hydride	10	0.146			mg/L	0.02	0.05	10/29/20 13:30	llr
Selenium, dissolved	M200.8 ICP-MS	20	0.152			mg/L	0.002	0.005	10/22/20 18:51	bsu
Silver, dissolved	M200.7 ICP	20	<0.2	U	*	mg/L	0.2	0.5	10/22/20 12:42	kja
Sodium, dissolved	M200.7 ICP	20	497		*	mg/L	4	20	10/22/20 12:42	kja
Thallium, dissolved	M200.8 ICP-MS	20	<0.002	U		mg/L	0.002	0.01	10/22/20 18:51	bsu
Uranium, dissolved	M200.8 ICP-MS	20	0.0138			mg/L	0.002	0.01	10/22/20 18:51	bsu
Zinc, dissolved	M200.7 ICP	20	<0.4	U		mg/L	0.4	1	10/22/20 12:42	kja

**Rio Algom Mining Company**

Project ID: 4508122295  
Sample ID: 36-08 TRA

ACZ Sample ID: **L62226-03**  
Date Sampled: 10/13/20 12:00  
Date Received: 10/15/20  
Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	548			mg/L	2	20	10/16/20 0:00	eep
Carbonate as CaCO3		1	<2	U		mg/L	2	20	10/16/20 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	10/16/20 0:00	eep
Total Alkalinity		1	548			mg/L	2	20	10/16/20 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.1			%			01/05/21 0:00	calc
Sum of Anions			494			meq/L			01/05/21 0:00	calc
Sum of Cations			495			meq/L			01/05/21 0:00	calc
Chloride	M300.0 - Ion Chromatography	500	890	B	*	mg/L	200	1000	10/28/20 1:09	krh
Cyanide, Total	D7511-09	1	<0.003	U	*	mg/L	0.003	0.01	10/21/20 13:59	mss2
Fluoride	M300.0 - Ion Chromatography	500	<25	U	*	mg/L	25	125	10/30/20 19:00	krh
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	100	103			mg/L	2	10	10/24/20 2:00	pjb
pH (lab)	SM4500H+ B									
pH		1	7.7	H		units	0.1	0.1	10/16/20 0:00	eep
pH measured at		1	21.0			C	0.1	0.1	10/16/20 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	10	31100		*	mg/L	200	400	10/19/20 19:29	jck
Sulfate	M300.0 - Ion Chromatography	500	21800			mg/L	200	1000	10/28/20 1:09	krh
TDS (calculated)	Calculation		29500			mg/L			01/05/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.05						01/05/21 0:00	calc

### Rio Algom Mining Company

Project ID: 4508122295

Sample ID: 32-04 TRA

ACZ Sample ID: **L62226-04**

Date Sampled: 10/14/20 12:17

Date Received: 10/15/20

Sample Matrix: Groundwater

#### 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	10/22/20 12:45	kja
Arsenic, dissolved	M200.8 ICP-MS	1	0.00133			mg/L	0.0002	0.001	10/22/20 18:53	bsu
Barium, dissolved	M200.7 ICP	1	0.0174	B		mg/L	0.007	0.035	10/22/20 12:45	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	10/22/20 18:53	bsu
Boron, dissolved	M200.7 ICP	1	0.399			mg/L	0.02	0.1	10/22/20 12:45	kja
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	10/22/20 18:53	bsu
Calcium, dissolved	M200.7 ICP	1	167			mg/L	0.1	0.5	10/22/20 12:45	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	10/22/20 18:53	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/22/20 12:45	kja
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	10/22/20 12:45	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	10/22/20 12:45	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/22/20 18:53	bsu
Magnesium, dissolved	M200.7 ICP	1	56.8			mg/L	0.2	1	10/22/20 12:45	kja
Manganese, dissolved	M200.7 ICP	1	0.012	B		mg/L	0.01	0.05	10/22/20 12:45	kja
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	10/28/20 16:22	llr
Molybdenum, dissolved	M200.8 ICP-MS	1	0.0133			mg/L	0.0002	0.0005	10/22/20 18:53	bsu
Nickel, dissolved	M200.8 ICP-MS	1	0.00103			mg/L	0.0004	0.001	10/22/20 18:53	bsu
Potassium, dissolved	M200.7 ICP	1	7.67			mg/L	0.2	1	10/22/20 12:45	kja
Selenium, dissolved	SM 3114 B, AA-Hydride	1	<0.002	U		mg/L	0.002	0.005	10/22/20 13:43	llr
Selenium, dissolved	M200.8 ICP-MS	1	0.00020	B		mg/L	0.0001	0.00025	10/22/20 18:53	bsu
Silver, dissolved	M200.7 ICP	1	<0.01	U	*	mg/L	0.01	0.025	10/22/20 12:45	kja
Sodium, dissolved	M200.7 ICP	1	263		*	mg/L	0.2	1	10/22/20 12:45	kja
Thallium, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	10/22/20 18:53	bsu
Uranium, dissolved	M200.8 ICP-MS	1	0.00536			mg/L	0.0001	0.0005	10/22/20 18:53	bsu
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	10/22/20 12:45	kja



**Rio Algom Mining Company**

Project ID: 4508122295  
Sample ID: 32-04 TRA

ACZ Sample ID: **L62226-04**  
Date Sampled: 10/14/20 12:17  
Date Received: 10/15/20  
Sample Matrix: Groundwater

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	124			mg/L	2	20	10/16/20 0:00	eep
Carbonate as CaCO3		1	<2	U		mg/L	2	20	10/16/20 0:00	eep
Hydroxide as CaCO3		1	<2	U		mg/L	2	20	10/16/20 0:00	eep
Total Alkalinity		1	124			mg/L	2	20	10/16/20 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-2.0			%			01/05/21 0:00	calc
Sum of Anions			26			meq/L			01/05/21 0:00	calc
Sum of Cations			25			meq/L			01/05/21 0:00	calc
Chloride	M300.0 - Ion Chromatography	20	26.9	B	*	mg/L	8	40	10/28/20 1:27	krh
Cyanide, Total	D7511-09	1	<0.003	U		mg/L	0.003	0.01	10/21/20 14:01	mss2
Fluoride	M300.0 - Ion Chromatography	20	<1	U	*	mg/L	1	5	10/30/20 19:36	krh
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.419			mg/L	0.02	0.1	10/24/20 2:01	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H		units	0.1	0.1	10/16/20 0:00	eep
pH measured at		1	21.0			C	0.1	0.1	10/16/20 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	1650		*	mg/L	20	40	10/16/20 17:52	eep
Sulfate	M300.0 - Ion Chromatography	20	1070			mg/L	8	40	10/28/20 1:27	krh
TDS (calculated)	Calculation		1670			mg/L			01/05/21 0:00	calc
TDS (ratio - measured/calculated)	Calculation		0.99						01/05/21 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>

**Rio Algom Mining Company**

ACZ Project ID: **L62226**

NOTE: If the Rec% column is null, the high/low 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
<b>WG507424</b>													
WG507424PBW1	PBW	10/15/20 18:54				11.2	mg/L		-20	20			
WG507424LCSW3	LCSW	10/15/20 19:13	WC201010-1	820.0001		835.1	mg/L	102	90	110			
WG507424LCSW6	LCSW	10/16/20 12:02	WC201010-1	820.0001		863.1	mg/L	105	90	110			
WG507424PBW2	PBW	10/16/20 12:12				2.5	mg/L		-20	20			
WG507424LCSW9	LCSW	10/16/20 15:16	WC201010-1	820.0001		866.8	mg/L	106	90	110			
WG507424PBW3	PBW	10/16/20 15:26				3.3	mg/L		-20	20			
WG507424LCSW12	LCSW	10/16/20 19:23	WC201010-1	820.0001		875.1	mg/L	107	90	110			
WG507424PBW4	PBW	10/16/20 19:34				3.2	mg/L		-20	20			
L62226-04DUP	DUP	10/16/20 23:21			124	137.8	mg/L				11	20	
WG507424LCSW15	LCSW	10/16/20 23:40	WC201010-1	820.0001		869.8	mg/L	106	90	110			

**Aluminum, dissolved** M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
<b>WG507837</b>													
WG507837ICV	ICV	10/22/20 11:34	II201012-1	2		1.98	mg/L	99	95	105			
WG507837ICB	ICB	10/22/20 11:40				U	mg/L		-0.15	0.15			
WG507837LFB	LFB	10/22/20 11:52	II201015-4	1.0012		.967	mg/L	97	85	115			
L62242-05AS	AS	10/22/20 13:09	II201015-4	1.0012	U	1.029	mg/L	103	85	115			
L62242-05ASD	ASD	10/22/20 13:12	II201015-4	1.0012	U	.998	mg/L	100	85	115	3	20	

**Arsenic, dissolved** M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
<b>WG507974</b>													
WG507974ICV	ICV	10/22/20 18:18	MS201021-2	.05		.05077	mg/L	102	90	110			
WG507974ICB	ICB	10/22/20 18:20				U	mg/L		-0.00044	0.00044			
WG507974LFB	LFB	10/22/20 18:22	MS201020-4	.05005		.05161	mg/L	103	85	115			
L62226-04AS	AS	10/22/20 18:54	MS201020-4	.05005	.00133	.05398	mg/L	105	70	130			
L62226-04ASD	ASD	10/22/20 18:56	MS201020-4	.05005	.00133	.05354	mg/L	104	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
<b>WG507837</b>													
WG507837ICV	ICV	10/22/20 11:34	II201012-1	2		1.9555	mg/L	98	95	105			
WG507837ICB	ICB	10/22/20 11:40				U	mg/L		-0.021	0.021			
WG507837LFB	LFB	10/22/20 11:52	II201015-4	.5005		.4473	mg/L	89	85	115			
L62242-05AS	AS	10/22/20 13:09	II201015-4	.5005	.158	.6245	mg/L	93	85	115			
L62242-05ASD	ASD	10/22/20 13:12	II201015-4	.5005	.158	.6355	mg/L	95	85	115	2	20	

**Beryllium, dissolved** M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
<b>WG507974</b>													
WG507974ICV	ICV	10/22/20 18:18	MS201021-2	.05		.047901	mg/L	96	90	110			
WG507974ICB	ICB	10/22/20 18:20				.000129	mg/L		-0.000176	0.000176			
WG507974LFB	LFB	10/22/20 18:22	MS201020-4	.05005		.050031	mg/L	100	85	115			
L62226-04AS	AS	10/22/20 18:54	MS201020-4	.05005	U	.04684	mg/L	94	70	130			
L62226-04ASD	ASD	10/22/20 18:56	MS201020-4	.05005	U	.046776	mg/L	93	70	130	0	20	

**Rio Algom Mining Company**

ACZ Project ID: **L62226**

NOTE: If the Rec% column is null, the high/low 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
<b>WG507837</b>													
WG507837ICV	ICV	10/22/20 11:34	II201012-1	2		1.956	mg/L	98	95	105			
WG507837ICB	ICB	10/22/20 11:40				U	mg/L		-0.06	0.06			
WG507837LFB	LFB	10/22/20 11:52	II201015-4	.5005		.472	mg/L	94	85	115			
L62242-05AS	AS	10/22/20 13:09	II201015-4	.5005	.112	.586	mg/L	95	85	115			
L62242-05ASD	ASD	10/22/20 13:12	II201015-4	.5005	.112	.596	mg/L	97	85	115	2	20	

**Cadmium, dissolved**

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
<b>WG507974</b>													
WG507974ICV	ICV	10/22/20 18:18	MS201021-2	.05		.047047	mg/L	94	90	110			
WG507974ICB	ICB	10/22/20 18:20				U	mg/L		-0.00011	0.00011			
WG507974LFB	LFB	10/22/20 18:22	MS201020-4	.05005		.047651	mg/L	95	85	115			
L62226-04AS	AS	10/22/20 18:54	MS201020-4	.05005	U	.046096	mg/L	92	70	130			
L62226-04ASD	ASD	10/22/20 18:56	MS201020-4	.05005	U	.046254	mg/L	92	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
<b>WG507837</b>													
WG507837ICV	ICV	10/22/20 11:34	II201012-1	100		98.24	mg/L	98	95	105			
WG507837ICB	ICB	10/22/20 11:40				U	mg/L		-0.3	0.3			
WG507837LFB	LFB	10/22/20 11:52	II201015-4	67.99353		64.71	mg/L	95	85	115			
L62177-03AS	AS	10/22/20 12:07	II201015-4	67.99353	213	269.6	mg/L	83	85	115			M3
L62177-03ASD	ASD	10/22/20 12:11	II201015-4	67.99353	213	268.1	mg/L	81	85	115	1	20	M3
L62242-05AS	AS	10/22/20 13:09	II201015-4	67.99353	143	203.7	mg/L	89	85	115			
L62242-05ASD	ASD	10/22/20 13:12	II201015-4	67.99353	143	203.4	mg/L	89	85	115	0	20	

**Chloride**

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
<b>WG507545</b>													
WG507545ICV	ICV	10/20/20 9:34	WI201018-2	20.02		19.86	mg/L	99	90	110			
WG507545ICB	ICB	10/20/20 9:52				U	mg/L		-0.4	0.4			
<b>WG507919</b>													
WG507919LFB1	LFB	10/22/20 17:11	WI201018-4	30		29.58	mg/L	99	90	110			
WG507919LFB2	LFB	10/27/20 21:16	WI201018-4	30		31.93	mg/L	106	90	110			
L62197-05DUP	DUP	10/27/20 22:46			6.43	6.33	mg/L				2	20	
L62197-08AS	AS	10/27/20 23:58	WI201018-4	600	9.64	642.46	mg/L	105	90	110			

**Chloride**

SM4500CI-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
<b>WG507841</b>													
WG507841ICB	ICB	10/21/20 9:00				U	mg/L		-1.5	1.5			
WG507841ICV	ICV	10/21/20 9:00	WI200506-2	55.055		58.56	mg/L	106	90	110			
WG507841LFB1	LFB	10/21/20 15:25	WI200327-3	30.03		32.28	mg/L	107	90	110			
L62226-01DUP	DUP	10/21/20 15:27			15.8	15.63	mg/L				1	20	
L62235-01AS	AS	10/21/20 15:27	WI200327-3	30.03	70.2	93.63	mg/L	78	90	110			M2
WG507841LFB2	LFB	10/21/20 15:29	WI200327-3	30.03		32.42	mg/L	108	90	110			

**Rio Algom Mining Company**

ACZ Project ID: **L62226**

NOTE: If the Rec% column is null, the high/low 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
<b>WG507974</b>													
WG507974ICV	ICV	10/22/20 18:18	MS201021-2	.05		.05181	mg/L	104	90	110			
WG507974ICB	ICB	10/22/20 18:20				U	mg/L		-0.0011	0.0011			
WG507974LFB	LFB	10/22/20 18:22	MS201020-4	.05		.05144	mg/L	103	85	115			
L62226-04AS	AS	10/22/20 18:54	MS201020-4	.05	U	.04949	mg/L	99	70	130			
L62226-04ASD	ASD	10/22/20 18:56	MS201020-4	.05	U	.04944	mg/L	99	70	130	0	20	

**Cobalt, dissolved**

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
<b>WG507837</b>													
WG507837ICV	ICV	10/22/20 11:34	II201012-1	2.004		1.969	mg/L	98	95	105			
WG507837ICB	ICB	10/22/20 11:40				U	mg/L		-0.03	0.03			
WG507837LFB	LFB	10/22/20 11:52	II201015-4	.5		.452	mg/L	90	85	115			
L62242-05AS	AS	10/22/20 13:09	II201015-4	.5	U	.455	mg/L	91	85	115			
L62242-05ASD	ASD	10/22/20 13:12	II201015-4	.5	U	.466	mg/L	93	85	115	2	20	

**Conductivity @25C**

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
<b>WG507424</b>													
WG507424LCSW2	LCSW	10/15/20 19:00	PCN61793	1409		1330.4	umhos/cm	94	90	110			
WG507424LCSW5	LCSW	10/16/20 11:49	PCN61793	1409		1314.4	umhos/cm	93	90	110			
WG507424LCSW8	LCSW	10/16/20 15:03	PCN61793	1409		1339.3	umhos/cm	95	90	110			
WG507424LCSW11	LCSW	10/16/20 19:10	PCN61793	1409		1344.3	umhos/cm	95	90	110			
L62226-04DUP	DUP	10/16/20 23:21			1400	1413	umhos/cm				1	20	
WG507424LCSW14	LCSW	10/16/20 23:28	PCN61793	1409		1387.1	umhos/cm	98	90	110			

**Copper, dissolved**

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
<b>WG507837</b>													
WG507837ICV	ICV	10/22/20 11:34	II201012-1	2		1.906	mg/L	95	95	105			
WG507837ICB	ICB	10/22/20 11:40				U	mg/L		-0.03	0.03			
WG507837LFB	LFB	10/22/20 11:52	II201015-4	.501		.448	mg/L	89	85	115			
L62242-05AS	AS	10/22/20 13:09	II201015-4	.501	.012	.487	mg/L	95	85	115			
L62242-05ASD	ASD	10/22/20 13:12	II201015-4	.501	.012	.496	mg/L	97	85	115	2	20	

**Cyanide, Total**

D7511-09

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
<b>WG507779</b>													
WG507779ICV	ICV	10/21/20 13:39	WI201013-5	.3003		.2974	mg/L	99	90	110			
WG507779ICB	ICB	10/21/20 13:41				U	mg/L		-0.003	0.003			
WG507779LFB	LFB	10/21/20 13:47	WI201013-6	.1		.107	mg/L	107	84	116			
L62226-01AS	AS	10/21/20 13:53	WI201013-6	.1	.009	.109	mg/L	100	84	116			
L62226-01ASD	ASD	10/21/20 13:55	WI201013-6	.1	.009	.1095	mg/L	101	84	116	0	20	

Rio Algom Mining Company

ACZ Project ID: **L62226**

NOTE: If the Rec% column is null, the high/low 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**

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
<b>WG507235</b>													
WG507235ICV	ICV	10/13/20 20:40	WI201009-2	4		3.942	mg/L	99	90	110			
WG507235ICB	ICB	10/13/20 20:57				U	mg/L		-0.05	0.05			
<b>WG508585</b>													
WG508585LFB1	LFB	10/30/20 17:48	WI201018-4	1.5		1.663	mg/L	111	90	110			LA
L62226-02DUP	DUP	10/30/20 18:42			U	U	mg/L				0	20	RA
L62226-03AS	AS	10/30/20 19:18	WI201018-4	750	U	825.479	mg/L	110	90	110			
WG508585LFB2	LFB	10/31/20 2:28	WI201018-4	1.5		1.646	mg/L	110	90	110			

**Iron, dissolved**

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
<b>WG507837</b>													
WG507837ICV	ICV	10/22/20 11:34	II201012-1	2		1.915	mg/L	96	95	105			
WG507837ICB	ICB	10/22/20 11:40				U	mg/L		-0.18	0.18			
WG507837LFB	LFB	10/22/20 11:52	II201015-4	1.0018		.915	mg/L	91	85	115			
L62177-03AS	AS	10/22/20 12:07	II201015-4	1.0018	U	.935	mg/L	93	85	115			
L62177-03ASD	ASD	10/22/20 12:11	II201015-4	1.0018	U	.926	mg/L	92	85	115	1	20	
L62242-05AS	AS	10/22/20 13:09	II201015-4	1.0018	U	.972	mg/L	97	85	115			
L62242-05ASD	ASD	10/22/20 13:12	II201015-4	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
<b>WG507974</b>													
WG507974ICV	ICV	10/22/20 18:18	MS201021-2	.05		.05056	mg/L	101	90	110			
WG507974ICB	ICB	10/22/20 18:20				U	mg/L		-0.00022	0.00022			
WG507974LFB	LFB	10/22/20 18:22	MS201020-4	.05005		.05146	mg/L	103	85	115			
L62226-04AS	AS	10/22/20 18:54	MS201020-4	.05005	U	.05174	mg/L	103	70	130			
L62226-04ASD	ASD	10/22/20 18:56	MS201020-4	.05005	U	.05197	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
<b>WG507837</b>													
WG507837ICV	ICV	10/22/20 11:34	II201012-1	100		98.39	mg/L	98	95	105			
WG507837ICB	ICB	10/22/20 11:40				U	mg/L		-0.6	0.6			
WG507837LFB	LFB	10/22/20 11:52	II201015-4	49.99922		46.89	mg/L	94	85	115			
L62177-03AS	AS	10/22/20 12:07	II201015-4	49.99922	323	361.7	mg/L	77	85	115			M3
L62177-03ASD	ASD	10/22/20 12:11	II201015-4	49.99922	323	360.3	mg/L	75	85	115	0	20	M3
L62242-05AS	AS	10/22/20 13:09	II201015-4	49.99922	68.5	115.8	mg/L	95	85	115			
L62242-05ASD	ASD	10/22/20 13:12	II201015-4	49.99922	68.5	114.6	mg/L	92	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
<b>WG507837</b>													
WG507837ICV	ICV	10/22/20 11:34	II201012-1	2		1.908	mg/L	95	95	105			
WG507837ICB	ICB	10/22/20 11:40				U	mg/L		-0.03	0.03			
WG507837LFB	LFB	10/22/20 11:52	II201015-4	.5005		.449	mg/L	90	85	115			
L62242-05AS	AS	10/22/20 13:09	II201015-4	.5005	U	.482	mg/L	96	85	115			
L62242-05ASD	ASD	10/22/20 13:12	II201015-4	.5005	U	.491	mg/L	98	85	115	2	20	

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ACZ Project ID: **L62226**

NOTE: If the Rec% column is null, the high/low 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													M245.1 CVAA	
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual	
<b>WG508289</b>														
WG508289ICV	ICV	10/28/20 14:00	HG200810-2	.005		.00482	mg/L	96	90	110				
WG508289ICB	ICB	10/28/20 14:01				U	mg/L		-0.0006	0.0006				
<b>WG508097</b>														
WG508097LRB	LRB	10/28/20 16:19				U	mg/L		-0.00044	0.00044				
WG508097LFB	LFB	10/28/20 16:19	HG201027-4	.002002		.0019	mg/L	95	85	115				
L62226-04LFM	LFM	10/28/20 16:23	HG201027-4	.002002	U	.00186	mg/L	93	85	115				
L62226-04LFMD	LFMD	10/28/20 16:24	HG201027-4	.002002	U	.00185	mg/L	92	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	
<b>WG507974</b>														
WG507974ICV	ICV	10/22/20 18:18	MS201021-2	.01992		.02005	mg/L	101	90	110				
WG507974ICB	ICB	10/22/20 18:20				U	mg/L		-0.00044	0.00044				
WG507974LFB	LFB	10/22/20 18:22	MS201020-4	.0501		.05192	mg/L	104	85	115				
L62066-03AS	AS	10/22/20 18:29	MS201020-4	.0501	U	.0494	mg/L	99	70	130				
L62066-03ASD	ASD	10/22/20 18:31	MS201020-4	.0501	U	.04994	mg/L	100	70	130	1	20		
L62226-04AS	AS	10/22/20 18:54	MS201020-4	.0501	.0133	.0653	mg/L	104	70	130				
L62226-04ASD	ASD	10/22/20 18:56	MS201020-4	.0501	.0133	.06548	mg/L	104	70	130	0	20		
Nickel, dissolved													M200.8 ICP-MS	
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual	
<b>WG507974</b>														
WG507974ICV	ICV	10/22/20 18:18	MS201021-2	.05		.05155	mg/L	103	90	110				
WG507974ICB	ICB	10/22/20 18:20				U	mg/L		-0.00088	0.00088				
WG507974LFB	LFB	10/22/20 18:22	MS201020-4	.05		.05185	mg/L	104	85	115				
L62066-03AS	AS	10/22/20 18:29	MS201020-4	.05	U	.0515	mg/L	103	70	130				
L62066-03ASD	ASD	10/22/20 18:31	MS201020-4	.05	U	.0521	mg/L	104	70	130	1	20		
L62226-04AS	AS	10/22/20 18:54	MS201020-4	.05	.00103	.04892	mg/L	96	70	130				
L62226-04ASD	ASD	10/22/20 18:56	MS201020-4	.05	.00103	.0485	mg/L	95	70	130	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	
<b>WG508074</b>														
WG508074ICV	ICV	10/23/20 21:20	WI200815-1	2.416		2.308	mg/L	96	90	110				
WG508074ICB	ICB	10/23/20 21:21				U	mg/L		-0.02	0.02				
<b>WG508079</b>														
WG508079LFB	LFB	10/24/20 1:16	WI201001-11	2		2.043	mg/L	102	90	110				
L62219-02AS	AS	10/24/20 1:38	WI201001-11	2	.35	2.344	mg/L	100	90	110				
L62226-01DUP	DUP	10/24/20 1:40			.395	.396	mg/L				0	20		

Rio Algom Mining Company

ACZ Project ID: **L62226**

NOTE: If the Rec% column is null, the high/low 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
<b>WG507424</b>													
WG507424LCSW1	LCSW	10/15/20 18:58	PCN60577	6		6	units	100	5.9	6.1			
WG507424LCSW4	LCSW	10/16/20 11:47	PCN60577	6		6.1	units	102	5.9	6.1			
WG507424LCSW7	LCSW	10/16/20 15:01	PCN60577	6		6.1	units	102	5.9	6.1			
WG507424LCSW10	LCSW	10/16/20 19:08	PCN60577	6		6.1	units	102	5.9	6.1			
L62226-04DUP	DUP	10/16/20 23:21			8.2	8.2	units				0	20	
WG507424LCSW13	LCSW	10/16/20 23:26	PCN60577	6		6.1	units	102	5.9	6.1			

**Potassium, dissolved** M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
<b>WG507837</b>													
WG507837ICV	ICV	10/22/20 11:34	II201012-1	20		19.35	mg/L	97	95	105			
WG507837ICB	ICB	10/22/20 11:40				U	mg/L		-0.6	0.6			
WG507837LFB	LFB	10/22/20 11:52	II201015-4	99.96637		93.55	mg/L	94	85	115			
L62177-03AS	AS	10/22/20 12:07	II201015-4	99.96637	12.2	108	mg/L	96	85	115			
L62177-03ASD	ASD	10/22/20 12:11	II201015-4	99.96637	12.2	106.3	mg/L	94	85	115	2	20	
L62242-05AS	AS	10/22/20 13:09	II201015-4	99.96637	15.4	115.4	mg/L	100	85	115			
L62242-05ASD	ASD	10/22/20 13:12	II201015-4	99.96637	15.4	110.3	mg/L	95	85	115	5	20	

**Residue, Filterable (TDS) @180C** SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
<b>WG507520</b>													
WG507520PBW	PBW	10/16/20 17:25				U	mg/L		-20	20			
WG507520LCSW	LCSW	10/16/20 17:27	PCN62147	1000		990	mg/L	99	80	120			
L62226-03DUP	DUP	10/16/20 17:50			29500	28320	mg/L				4	10	
L62242-06DUP	DUP	10/16/20 18:04			1290	1280	mg/L				1	10	
<b>WG507638</b>													
WG507638PBW	PBW	10/19/20 18:50				U	mg/L		-20	20			
WG507638LCSW	LCSW	10/19/20 18:52	PCN62147	1000		996	mg/L	100	80	120			
L62287-31DUP	DUP	10/19/20 19:50			U	U	mg/L				0	10	RA



Rio Algom Mining Company

ACZ Project ID: **L62226**

NOTE: If the Rec% column is null, the high/low 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
<b>WG507974</b>													
WG507974ICV	ICV	10/22/20 18:18	MS201021-2	.05		.05079	mg/L	102	90	110			
WG507974ICB	ICB	10/22/20 18:20				U	mg/L		-0.00022	0.00022			
WG507974LFB	LFB	10/22/20 18:22	MS201020-4	.05		.05151	mg/L	103	85	115			
L62226-04AS	AS	10/22/20 18:54	MS201020-4	.05	.0002	.05628	mg/L	112	70	130			
L62226-04ASD	ASD	10/22/20 18:56	MS201020-4	.05	.0002	.05597	mg/L	112	70	130	1	20	

**Selenium, dissolved**

SM 3114 B, AA-Hydride

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
<b>WG507884</b>													
WG507884ICV	ICV	10/22/20 12:03	SE201005-1	.025		.025	mg/L	100	90	110			
WG507884ICB	ICB	10/22/20 12:05				U	mg/L		-0.006	0.006			
<b>WG507883</b>													
WG507883LRB	LRB	10/22/20 13:05				U	mg/L		-0.006	0.006			
WG507883LFB	LFB	10/22/20 13:08	SE200820-2	.0225		.0207	mg/L	92	85	115			
L62198-03LFM	LFM	10/22/20 13:16	SE200820-2	.0225	.0105	.0288	mg/L	81	85	115			M2
L62198-03LFMD	LFMD	10/22/20 13:18	SE200820-2	.0225	.0105	.029	mg/L	82	85	115	1	20	M2
L62242-04LFM	LFM	10/22/20 13:58	SE200820-2	.0225	U	.0207	mg/L	92	85	115			
L62242-04LFMD	LFMD	10/22/20 14:00	SE200820-2	.0225	U	.0206	mg/L	92	85	115	0	20	
<b>WG508382</b>													
WG508382ICV	ICV	10/29/20 13:22	SE201005-1	.025		.0249	mg/L	100	90	110			
WG508382ICB	ICB	10/29/20 13:24				U	mg/L		-0.006	0.006			
WG508382LRB	LRB	10/29/20 13:26				U	mg/L		-0.006	0.006			
WG508382LFB	LFB	10/29/20 13:28	SE200820-2	.0225		.0223	mg/L	99	85	115			
L62313-02LFM	LFM	10/29/20 13:38	SE200820-2	.0225	U	.021	mg/L	93	85	115			
L62313-02LFMD	LFMD	10/29/20 13:40	SE200820-2	.0225	U	.0212	mg/L	94	85	115	1	20	

**Silver, dissolved**

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
<b>WG507837</b>													
WG507837ICV	ICV	10/22/20 11:34	II201012-1	1		.975	mg/L	98	95	105			
WG507837ICB	ICB	10/22/20 11:40				U	mg/L		-0.03	0.03			
WG507837LFB	LFB	10/22/20 11:52	II201015-4	.5		.471	mg/L	94	85	115			
L62242-05AS	AS	10/22/20 13:09	II201015-4	.5	U	.408	mg/L	82	85	115			M2 ZA
L62242-05ASD	ASD	10/22/20 13:12	II201015-4	.5	U	.417	mg/L	83	85	115	2	20	M2 ZA

**Sodium, dissolved**

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
<b>WG507837</b>													
WG507837ICV	ICV	10/22/20 11:34	II201012-1	100		98.78	mg/L	99	95	105			
WG507837ICB	ICB	10/22/20 11:40				U	mg/L		-0.6	0.6			
WG507837LFB	LFB	10/22/20 11:52	II201015-4	100.0125		94.04	mg/L	94	85	115			
L62177-03AS	AS	10/22/20 12:07	II201015-4	100.0125	360	442	mg/L	82	85	115			M3
L62177-03ASD	ASD	10/22/20 12:11	II201015-4	100.0125	360	441.2	mg/L	81	85	115	0	20	M3
L62242-05AS	AS	10/22/20 13:09	II201015-4	100.0125	144	235.2	mg/L	91	85	115			
L62242-05ASD	ASD	10/22/20 13:12	II201015-4	100.0125	144	227.7	mg/L	84	85	115	3	20	MA

**Rio Algom Mining Company**

ACZ Project ID: **L62226**

NOTE: If the Rec% column is null, the high/low 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
<b>WG507958</b>													
WG507958ICB	ICB	10/22/20 11:13				U	mg/L		-3	3			
WG507958ICV	ICV	10/22/20 11:13	WI201012-1	20		19	mg/L	95	90	110			
WG507958LFB	LFB	10/22/20 14:12	WI200803-1	10.01		9.3	mg/L	93	90	110			
L62255-01AS	AS	10/22/20 15:13	SO4TURB60X	9.99	1060	1064.8	mg/L	48	90	110			M3
L62255-02DUP	DUP	10/22/20 15:13			996	958.2	mg/L				4	20	

**Sulfate** M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
<b>WG507545</b>													
WG507545ICV	ICV	10/20/20 9:34	WI201018-2	50		50.28	mg/L	101	90	110			
WG507545ICB	ICB	10/20/20 9:52				U	mg/L		-0.4	0.4			
<b>WG507919</b>													
WG507919LFB1	LFB	10/22/20 17:11	WI201018-4	30		28.99	mg/L	97	90	110			
WG507919LFB2	LFB	10/27/20 21:16	WI201018-4	30		31.86	mg/L	106	90	110			
L62197-05DUP	DUP	10/27/20 22:46			16.6	16.48	mg/L				1	20	
L62197-08AS	AS	10/27/20 23:58	WI201018-4	600	1400	1996.48	mg/L	99	90	110			

**Thallium, dissolved** M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
<b>WG507974</b>													
WG507974ICV	ICV	10/22/20 18:18	MS201021-2	.05		.05003	mg/L	100	90	110			
WG507974ICB	ICB	10/22/20 18:20				U	mg/L		-0.00022	0.00022			
WG507974LFB	LFB	10/22/20 18:22	MS201020-4	.0501		.05134	mg/L	102	85	115			
L62226-04AS	AS	10/22/20 18:54	MS201020-4	.0501	U	.05166	mg/L	103	70	130			
L62226-04ASD	ASD	10/22/20 18:56	MS201020-4	.0501	U	.05203	mg/L	104	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
<b>WG507974</b>													
WG507974ICV	ICV	10/22/20 18:18	MS201021-2	.05		.05271	mg/L	105	90	110			
WG507974ICB	ICB	10/22/20 18:20				U	mg/L		-0.00022	0.00022			
WG507974LFB	LFB	10/22/20 18:22	MS201020-4	.05		.05366	mg/L	107	85	115			
L62066-03AS	AS	10/22/20 18:29	MS201020-4	.05	U	.05276	mg/L	106	70	130			
L62066-03ASD	ASD	10/22/20 18:31	MS201020-4	.05	U	.05301	mg/L	106	70	130	0	20	
L62226-04AS	AS	10/22/20 18:54	MS201020-4	.05	.00536	.06221	mg/L	114	70	130			
L62226-04ASD	ASD	10/22/20 18:56	MS201020-4	.05	.00536	.06251	mg/L	114	70	130	0	20	

**Zinc, dissolved** M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
<b>WG507837</b>													
WG507837ICV	ICV	10/22/20 11:34	II201012-1	2		1.965	mg/L	98	95	105			
WG507837ICB	ICB	10/22/20 11:40				U	mg/L		-0.06	0.06			
WG507837LFB	LFB	10/22/20 11:52	II201015-4	.50075		.493	mg/L	98	85	115			
L62242-05AS	AS	10/22/20 13:09	II201015-4	.50075	U	.507	mg/L	101	85	115			
L62242-05ASD	ASD	10/22/20 13:12	II201015-4	.50075	U	.476	mg/L	95	85	115	6	20	

Rio Algom Mining Company

ACZ Project ID: **L62226**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L62226-01	WG507837	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.
	WG507841	Chloride	SM4500Cl-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG507837	Magnesium, 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.
	WG507520	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.
			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.
	WG507883	Selenium, dissolved	SM 3114 B, AA-Hydride	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG507837	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.
	WG507958	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.
L62226-02	WG508585	Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	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].
			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).
	WG507520	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.
			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.
	WG507837	Silver, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M200.7 ICP	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.
	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.	

Rio Algom Mining Company

ACZ Project ID: **L62226**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L62226-03	WG507919	Chloride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
	WG507779	Cyanide, Total	D7511-09	Q3	Sample received with improper or inadequate chemical preservation.
	WG508585	Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [ $< MDL$ ].
			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 ( $< 10x MDL$ ).
	WG507638	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 ( $< 10x MDL$ ).
	WG507837	Silver, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M200.7 ICP	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.
			M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
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.		
	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.		
	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.		
L62226-04	WG507919	Chloride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
	WG508585	Fluoride	M300.0 - Ion Chromatography	DC	Sample required dilution. Non-target analyte exceeded calibration range.
			M300.0 - Ion Chromatography	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [ $< MDL$ ].
			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 ( $< 10x MDL$ ).
	WG507520	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.
	WG507837	Silver, dissolved	M200.7 ICP	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M200.7 ICP	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.
			M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
			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.
	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.	
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.		

### Rio Algom Mining Company

Project ID: 4508122295

Sample ID: 19-77 TRB

Locator:

ACZ Sample ID: **L62226-01**

Date Sampled: 10/12/20 15:31

Date Received: 10/15/20

Sample Matrix: Groundwater

Lead 210, dissolved

Prep Method:

EICHROM, OTW01

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	11/10/20 15:33		5.3	1.7	3	pCi/L	*	tjr

Polonium 210, dissolved

Prep Method:

HASL Po-01-RC

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Polonium 210, dissolved	11/05/20 10:18		0.61	1.5	2.8	pCi/L	*	tjr

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	10/27/20 0:25		0.23	0.16	0.18	pCi/L	*	djc

Radium 228, dissolved

Prep Method:

M9320

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, dissolved	11/03/20 19:10		7.2	1	1.8	pCi/L	*	cer / amk

Thorium 230, dissolved

Prep Method:

ESM 4506

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	11/11/20 10:06		0.368	0.63	1.1	pCi/L	*	djc

### Rio Algom Mining Company

Project ID: 4508122295

Sample ID: 36-07 KD

Locator:

ACZ Sample ID: **L62226-02**

Date Sampled: 10/13/20 10:44

Date Received: 10/15/20

Sample Matrix: Groundwater

Lead 210, dissolved

Prep Method:

EICHROM, OTW01

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	11/10/20 15:33		2.8	1.4	2.7	pCi/L	*	tjr

Polonium 210, dissolved

Prep Method:

HASL Po-01-RC

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Polonium 210, dissolved	11/05/20 10:18		-0.196	1.8	3.5	pCi/L	*	tjr

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	10/27/20 0:27		3.6	0.37	0.24	pCi/L	*	djc

Radium 228, dissolved

Prep Method:

M9320

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, dissolved	11/04/20 15:04		4	0.99	1.9	pCi/L	*	amk

Thorium 230, dissolved

Prep Method:

ESM 4506

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	11/11/20 10:06		0.254	0.28	0.45	pCi/L	*	djc

### Rio Algom Mining Company

Project ID: 4508122295

Sample ID: 36-08 TRA

Locator:

ACZ Sample ID: **L62226-03**

Date Sampled: 10/13/20 12:00

Date Received: 10/15/20

Sample Matrix: Groundwater

Lead 210, dissolved

Prep Method:

EICHROM, OTW01

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	11/10/20 15:33		19	47	92	pCi/L	*	tjr

Polonium 210, dissolved

Prep Method:

HASL Po-01-RC

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Polonium 210, dissolved	01/04/21 16:59		1.96	2.6	4.4	pCi/L	*	tjr

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	10/27/20 0:28		2	0.5	0.65	pCi/L	*	djc

Radium 228, dissolved

Prep Method:

M9320

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, dissolved	11/04/20 15:04		7.4	0.92	1.5	pCi/L	*	amk

Thorium 230, dissolved

Prep Method:

ESM 4506

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	11/11/20 10:06		0.623	0.96	1.6	pCi/L	*	djc

### Rio Algom Mining Company

Project ID: 4508122295

Sample ID: 32-04 TRA

Locator:

ACZ Sample ID: **L62226-04**

Date Sampled: 10/14/20 12:17

Date Received: 10/15/20

Sample Matrix: Groundwater

Lead 210, dissolved

Prep Method:

EICHROM, OTW01

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Lead 210, dissolved	11/10/20 15:33		2	1.4	2.6	pCi/L	*	tjr

Polonium 210, dissolved

Prep Method:

HASL Po-01-RC

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Polonium 210, dissolved	01/04/21 16:59		-0.359	1.1	2.5	pCi/L	*	tjr

Radium 226, dissolved

Prep Method:

M903.1

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 226, dissolved	10/27/20 0:30		0.38	0.13	0.48	pCi/L	*	djc

Radium 228, dissolved

Prep Method:

M9320

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Radium 228, dissolved	11/04/20 15:04		1.1	0.83	2	pCi/L	*	amk

Thorium 230, dissolved

Prep Method:

ESM 4506

Parameter	Measure Date	Prep Date	Result	Error(+/-)	LLD	Units	XQ	Analyst
Thorium 230, dissolved	11/11/20 10:06		0.293	0.25	0.36	pCi/L	*	djc



**Report Header Explanations**

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Error(+/-)</i>	Calculated sample specific uncertainty
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>LCL</i>	Lower Control Limit, in % (except for LCSS, mg/Kg)
<i>LLD</i>	Calculated sample specific Lower Limit of Detection
<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
<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>RER</i>	Relative Error Ratio, calculation used for Dup. QC taking into account the error factor.
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>UCL</i>	Upper Control Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

**QC Sample Types**

<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 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.
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**Method Prefix Reference**

M	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>

Rio Algom Mining Company

ACZ Project ID: **L62226**

NOTE: If the Rec% column is null, the high/low 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 210, dissolved**

EICHROM, OTW01

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
<b>WG508110</b>																
L61833-01MS	MS	11/10/20	PCN59630	192.43	6.1	1.4	2.2	170	6.6	5.1	85	55	121			
WG508110LCSW	LCSW	11/10/20	PCN59630	96.21				89	3.3	2.3	93	55	121			
WG508110PBW	PBW	11/10/20						2	1.4	2.6			5.2			
L61833-01DUP	DUP-RER	11/10/20			6.1	1.4	2.2	4.8	1.8	3.3				0.57	2	
L61833-01DUP	DUP-RPD	11/10/20			6.1	1.4	2.2	4.8	1.8	3.3				24	20	RG

**Polonium 210, dissolved**

HASL Po-01-RC

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
<b>WG508846</b>																
L62226-01DUP	DUP-RER	11/05/20			0.61	1.5	2.8	.49	2.4	4.3				0.04	2	
L62226-01DUP	DUP-RPD	11/05/20			0.61	1.5	2.8	.49	2.4	4.3				22	20	RG
WG508846PBW	PBW	11/05/20						-356	2.7	5.4			10.8			
WG508846LCSW	LCSW	11/05/20	PCN59630	500				455	75	3.1	91	51	128			
L62226-02MS	MS	11/05/20	PCN59630	500	-0.196	1.8	3.5	478	78	3.9	96	51	128			
<b>WG512249</b>																
WG512249PBW	PBW	01/04/21						1.09	2.6	4.6			9.2			
WG512249LCSW	LCSW	01/04/21	PCN59630	500				384	65	3.8	77	51	128			
L62226-03DUP	DUP-RER	01/04/21			1.96	2.6	4.4	.807	2.7	4.9				0.31	2	
L62226-03DUP	DUP-RPD	01/04/21			1.96	2.6	4.4	.807	2.7	4.9				83	20	RG
L62871-02MS	MS	01/04/21	PCN59630	500	-2.41	2.3	4.9	415	70	4.3	83	51	128			

Rio Algom Mining Company

ACZ Project ID: **L62226**

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

**Radium 226, dissolved**

M903.1

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
<b>WG507854</b>																
WG507854PBW	PBW	10/27/20						0	0.08	0.16			0.32			
WG507854LCSW	LCSW	10/27/20	PCN61539	20				14	0.51	0.12	70	43	148			
L62067-02DUP	DUP-RPD	10/27/20			0.16	0.1	0.11	.2	0.08	0.18				22	20	RG
L62067-02DUP	DUP-RER	10/27/20			0.16	0.1	0.11	.2	0.08	0.18				0.31	2	
L62112-03DUP	DUP-RER	10/27/20			0.24	0.09	0.11	.44	0.19	0.43				0.95	2	
L62112-03DUP	DUP-RPD	10/27/20			0.24	0.09	0.11	.44	0.19	0.43				59	20	RG
L62068-01MS	MS	10/27/20	PCN61539	40	0.05	0.08	0.13	34	1	0.15	85	43	148			

**Radium 228, dissolved**

M9320

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
<b>WG508175</b>																
WG508175PBW	PBW	11/03/20						.46	0.54	0.55			1.1			
WG508175LCSW	LCSW	11/03/20	PCN61541	9.53				14	1.5	0.99	147	47	123			N1
L61921-07DUP	DUP-RPD	11/03/20			5	0.72	0.56	5.4	0.67	0.48				8	20	
L61921-05MS	MS	11/03/20	PCN61541	4.77	2.7	0.65	0.56	6.3	0.59	0.37	76	47	123			
L62098-03DUP	DUP-RPD	11/03/20			18	1.5	2.1	5.2	1.1	2.1				110	20	RM
<b>WG508245</b>																
L61920-01DUP	DUP-RER	11/04/20			0.72	0.83	2	.04	0.92	2.1				0.55	2	
WG508245LCSW	LCSW	11/04/20	PCN61541	9.53				11	1.3	0.92	115	47	123			
WG508245PBW	PBW	11/04/20						-.06	0.49	0.52			1.04			
L61920-01DUP	DUP-RPD	11/04/20			0.72	0.83	2	.04	0.92	2.1				179	20	RG
L62112-03DUP	DUP-RER	11/04/20			0.46	0.9	2	.83	0.85	1.9				0.3	2	
L62112-03DUP	DUP-RPD	11/04/20			0.46	0.9	2	.83	0.85	1.9				57	20	RG
L62095-01MS	MS	11/04/20	PCN61541	9.53	0.74	1.4	3.2	8.6	1.3	2.1	82	47	123			

Rio Algom Mining Company

ACZ Project ID: **L62226**

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

**Thorium 230, dissolved**

ESM 4506

Units: pCi/L

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	LLD	Found	Error	LLD	Rec%	Lower	Upper	RPD/RER	Limit	Qual
<b>WG508691</b>																
WG508691LCSW	LCSW	11/11/20	PCN58726	200				185	24	0.46	93	91	126			
L62226-04DUP	DUP-RER	11/11/20			0.293	0.25	0.36	.228	0.31	0.52				0.16	2	
L62226-04DUP	DUP-RPD	11/11/20			0.293	0.25	0.36	.228	0.31	0.52				25	20	RG
WG508691PBW	PBW	11/11/20						.206	0.24	0.38			0.76			
L62494-01DUP	DUP-RPD	11/11/20			0.00385	0.44	0.9	-.249	0.65	1.3				206	20	RG
L62494-01DUP	DUP-RER	11/11/20			0.00385	0.44	0.9	-.249	0.65	1.3				0.32	2	
L62384-02MS	MS	11/11/20	PCN58726	200	0.495	0.31	0.4	195	26	0.37	97	91	126			

Rio Algom Mining Company

ACZ Project ID: **L62226**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
<b>L62226-01</b>	WG508110	Lead 210, dissolved	EICHROM, OTW01	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.
	WG508846	Polonium 210, dissolved	HASL Po-01-RC	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.
	WG507854	Radium 226, dissolved	M903.1	DJ	Sample dilution required due to insufficient sample.
			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.
	WG508175	Radium 228, dissolved	M9320	N1	See Case Narrative.
			M9320	RM	For a water matrix, the duplicate precision assessment (RPD or RER) exceeded the control limit. High sediment, turbidity, or presence of an immiscible liquid attributed to non-homogeneity of the sample.
WG508691	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.	
<b>L62226-02</b>	WG508110	Lead 210, dissolved	EICHROM, OTW01	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.
	WG508846	Polonium 210, dissolved	HASL Po-01-RC	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.
	WG507854	Radium 226, dissolved	M903.1	DJ	Sample dilution required due to insufficient sample.
			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.
	WG508245	Radium 228, dissolved	M9320	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.
	WG508691	Thorium 230, dissolved	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.
<b>L62226-03</b>	WG508110	Lead 210, dissolved	EICHROM, OTW01	D1	Sample required dilution due to matrix.
			EICHROM, OTW01	N1	See Case Narrative.
			EICHROM, OTW01	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.
	WG512249	Polonium 210, dissolved	HASL Po-01-RC	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.
	WG507854	Radium 226, dissolved	M903.1	D1	Sample required dilution due to matrix.
			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.
	WG508245	Radium 228, dissolved	M9320	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.
	WG508691	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.	

Rio Algom Mining Company

ACZ Project ID: **L62226**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L62226-04	WG508110	Lead 210, dissolved	EICHROM, OTW01	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.
	WG512249	Polonium 210, dissolved	HASL Po-01-RC	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.
	WG507854	Radium 226, dissolved	M903.1 M903.1	DJ RG	Sample dilution required due to insufficient sample. 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.
	WG508245	Radium 228, dissolved	M9320	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.
	WG508691	Thorium 230, dissolved	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.

**Rio Algom Mining Company**

ACZ Project ID: **L62226**

Radiochemistry

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

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

Rio Algom Mining Company  
 4508122295

ACZ Project ID: L62226  
 Date Received: 10/15/2020 10:36  
 Received By:  
 Date Printed: 10/19/2020

**Receipt Verification**

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

**Samples/Containers**

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? <sup>1</sup>	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	

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?
4776	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.



Rio Algom Mining Company  
4508122295

ACZ Project ID: L62226  
Date Received: 10/15/2020 10:36  
Received By:  
Date Printed: 10/19/2020

<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), Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Laboratories, Inc. L62226

CHAIN of CUSTODY

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

Report to:

Name: Kent Applegate	Address: PO Box 218
Company: Rio Algom Mining LLC	Grants, NM 87020
E-mail: Kent.KC.Applegate@bhpbilliton.com	Telephone: 1-505-287-8851

Copy of Report to:

Name: See Attached Note Sheet	E-mail: See Attached Note Sheet
Company: INTERA, INC.	Telephone: 505-246-1600 x1207

Invoice to:

Name: Kent Applegate	Address: PO Box 218
Company: Rio Algom Mining LLC	Grants, NM 87020
E-mail: Kent.KC.Applegate@bhpbilliton.com	Telephone: 1-505-287-8851

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: B. Williamson Sampler's Site Information State NM Zip code 87020 Time Zone MST

\*Sampler's Signature: *B. Williamson* \*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 #: N/A	# of Containers	NRC-TRG	NRC-NEW																
PO#: 4902696293																			
Reporting state for compliance testing: NM																			
Check box if samples include NRC licensed material? <input type="checkbox"/>																			
SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	NRC-TRG	NRC-NEW														
19-77 TRB	10/12/20 153	GW	7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36-07 KD	10/13/20 1044	GW	7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
96-08 TRA	10/13/20 1228	GW	7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32-04 TRA	10/14 1217	GW	7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

REMARKS

RAML COC#: 20-61. Note different COC's may have different PO's. Shipment of 3 Coolers.

See Attached Note Sheet

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

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
<i>B. Williamson</i>	10/14/20 1600	<i>[Signature]</i>	10/15/20 10:37

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

L62226 Chain of Custody