

January 18, 2021

Report to:

Jake Wilkinson
CRG Mining, LLC
510 S Wisconsin St
Gunnison, CO 80231

Bill to:

Jake Wilkinson
CRG Mining, LLC
510 S Wisconsin St
Gunnison, CO 80231

Project ID: 2020 Q4

ACZ Project ID: L63640

Jake Wilkinson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on January 07, 2021. This project has been assigned to ACZ's project number, L63640. Please reference this number in all future inquiries.

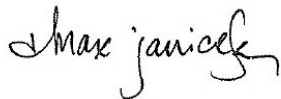
All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L63640. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 17, 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.



Max Janicek has reviewed and
approved this report.



CRG Mining, LLC

January 18, 2021

Project ID: 2020 Q4

ACZ Project ID: L63640

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 9 miscellaneous samples from CRG Mining, LLC on January 7, 2021. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L63640. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

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

The below is from WG512532

Qualifier: N1

Applies to:

L63640-08/TOTAL DISSOLVED SOLIDS

L63640-09/TOTAL DISSOLVED SOLIDS

Oven range is 80 C to 91 C. Over the weekend, the oven had a minor exceedance and minor minimum hit in oven temperature. When the oven temperature was checked on Monday 1/11/21, the max temp read at 104 C and the minimum 73.7 C. The WG was removed from the oven on 1/11/21 when the oven was back in range. The WG was examined and there was no splattering of samples.

CRG Mining, LLC

Project ID: 2020 Q4

Sample ID: GL-1

ACZ Sample ID: **L63640-01**

Date Sampled: 01/05/21 10:03

Date Received: 01/07/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						01/08/21 10:48	wtc
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								01/08/21 12:35	cbj

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	01/11/21 16:48	jlw
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/12/21 14:10	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	01/12/21 14:10	bsu
Barium, dissolved	M200.7 ICP	1	0.0075	B		mg/L	0.007	0.035	01/11/21 16:48	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/12/21 14:10	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	01/12/21 14:10	bsu
Calcium, dissolved	M200.7 ICP	1	13.5			mg/L	0.1	0.5	01/11/21 16:48	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	01/12/21 14:10	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 16:48	jlw
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 16:48	jlw
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	01/11/21 16:48	jlw
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/12/21 14:10	bsu
Magnesium, dissolved	M200.7 ICP	1	4.86			mg/L	0.2	1	01/11/21 16:48	jlw
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 16:48	jlw
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	01/13/21 13:36	llr
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	01/11/21 16:48	jlw
Potassium, dissolved	M200.7 ICP	1	0.60	B		mg/L	0.2	1	01/11/21 16:48	jlw
Sodium, dissolved	M200.7 ICP	1	2.13			mg/L	0.2	1	01/11/21 16:48	jlw
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	01/11/21 16:48	jlw
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	01/11/21 16:48	jlw

CRG Mining, LLC

Project ID: 2020 Q4

Sample ID: GL-1

ACZ Sample ID: **L63640-01**

Date Sampled: 01/05/21 10:03

Date Received: 01/07/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	53.6			mg/L	2	20	01/09/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	01/09/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	01/09/21 0:00	eep
Total Alkalinity		1	53.6			mg/L	2	20	01/09/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			01/18/21 0:00	calc
Sum of Anions			1.2			meq/L			01/18/21 0:00	calc
Sum of Cations			1.2			meq/L			01/18/21 0:00	calc
Chloride	SM4500Cl-E	1	0.98	B	*	mg/L	0.5	2	01/16/21 10:47	ttg
Conductivity @25C	SM2510B	1	131			umhos/cm	1	10	01/09/21 5:09	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	01/09/21 0:17	pjb
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		54			mg/L	0.2	5	01/18/21 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							01/08/21 14:02	scd
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.16	H		mg/L	0.02	0.1	01/18/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.155	H	*	mg/L	0.02	0.1	01/07/21 23:10	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	01/07/21 23:10	pjb
pH (lab)	SM4500H+ B									
pH		1	8.0	H		units	0.1	0.1	01/09/21 0:00	eep
pH measured at		1	21.1			C	0.1	0.1	01/09/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	64		*	mg/L	20	40	01/07/21 17:11	scd
Sulfate	D516-02/-07/-11 - Turbidimetric	1	3.9	B		mg/L	1	5	01/15/21 13:38	rbt

CRG Mining, LLC

Project ID: 2020 Q4

Sample ID: GL-2

ACZ Sample ID: **L63640-02**

Date Sampled: 01/05/21 09:52

Date Received: 01/07/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						01/08/21 10:55	wtc
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								01/08/21 12:35	cbj

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	01/11/21 16:51	jlw
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/12/21 14:12	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00276			mg/L	0.0002	0.001	01/12/21 14:12	bsu
Barium, dissolved	M200.7 ICP	1	<0.007	U		mg/L	0.007	0.035	01/11/21 16:51	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/12/21 14:12	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.00214			mg/L	0.00005	0.00025	01/12/21 14:12	bsu
Calcium, dissolved	M200.7 ICP	1	22.8			mg/L	0.1	0.5	01/11/21 16:51	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	01/12/21 14:12	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 16:51	jlw
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 16:51	jlw
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	01/11/21 16:51	jlw
Lead, dissolved	M200.8 ICP-MS	1	0.00011	B		mg/L	0.0001	0.0005	01/12/21 14:12	bsu
Magnesium, dissolved	M200.7 ICP	1	7.04			mg/L	0.2	1	01/11/21 16:51	jlw
Manganese, dissolved	M200.7 ICP	1	0.014	B		mg/L	0.01	0.05	01/11/21 16:51	jlw
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	01/13/21 13:47	llr
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	01/11/21 16:51	jlw
Potassium, dissolved	M200.7 ICP	1	0.82	B		mg/L	0.2	1	01/11/21 16:51	jlw
Sodium, dissolved	M200.7 ICP	1	4.05			mg/L	0.2	1	01/11/21 16:51	jlw
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	01/11/21 16:51	jlw
Zinc, dissolved	M200.7 ICP	1	0.226			mg/L	0.02	0.05	01/11/21 16:51	jlw

CRG Mining, LLC

Project ID: 2020 Q4

Sample ID: GL-2

ACZ Sample ID: **L63640-02**

Date Sampled: 01/05/21 09:52

Date Received: 01/07/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	70.4			mg/L	2	20	01/09/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	01/09/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	01/09/21 0:00	eep
Total Alkalinity		1	70.4			mg/L	2	20	01/09/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-5.0			%			01/18/21 0:00	calc
Sum of Anions			2.1			meq/L			01/18/21 0:00	calc
Sum of Cations			1.9			meq/L			01/18/21 0:00	calc
Chloride	SM4500Cl-E	1	1.08	B	*	mg/L	0.5	2	01/16/21 10:47	ttg
Conductivity @25C	SM2510B	1	216			umhos/cm	1	10	01/09/21 5:19	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U		mg/L	0.003	0.01	01/09/21 0:18	pjb
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		86			mg/L	0.2	5	01/18/21 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							01/08/21 14:05	scd
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.11	H		mg/L	0.02	0.1	01/18/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.110	H	*	mg/L	0.02	0.1	01/07/21 23:12	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	01/07/21 23:12	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H		units	0.1	0.1	01/09/21 0:00	eep
pH measured at		1	21.2			C	0.1	0.1	01/09/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	114		*	mg/L	20	40	01/07/21 17:14	scd
Sulfate	D516-02/-07/-11 - Turbidimetric	1	29.7			mg/L	1	5	01/15/21 13:38	rbt

CRG Mining, LLC

Project ID: 2020 Q4

Sample ID: GL-3

ACZ Sample ID: **L63640-03**

Date Sampled: 01/05/21 10:18

Date Received: 01/07/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						01/08/21 11:03	wtc
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								01/08/21 12:35	cbj

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	01/11/21 16:55	jlw
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/12/21 14:18	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00026	B		mg/L	0.0002	0.001	01/12/21 14:18	bsu
Barium, dissolved	M200.7 ICP	1	0.0075	B		mg/L	0.007	0.035	01/11/21 16:55	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/12/21 14:18	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.000196	B		mg/L	0.00005	0.00025	01/12/21 14:18	bsu
Calcium, dissolved	M200.7 ICP	1	14.6			mg/L	0.1	0.5	01/11/21 16:55	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	01/12/21 14:18	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 16:55	jlw
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 16:55	jlw
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	01/11/21 16:55	jlw
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/12/21 14:18	bsu
Magnesium, dissolved	M200.7 ICP	1	5.15			mg/L	0.2	1	01/11/21 16:55	jlw
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 16:55	jlw
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	01/13/21 13:48	llr
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	01/11/21 16:55	jlw
Potassium, dissolved	M200.7 ICP	1	0.65	B		mg/L	0.2	1	01/11/21 16:55	jlw
Sodium, dissolved	M200.7 ICP	1	2.30			mg/L	0.2	1	01/11/21 16:55	jlw
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	01/11/21 16:55	jlw
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	01/11/21 16:55	jlw

CRG Mining, LLC

Project ID: 2020 Q4

Sample ID: GL-3

ACZ Sample ID: **L63640-03**

Date Sampled: 01/05/21 10:18

Date Received: 01/07/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	58.4			mg/L	2	20	01/09/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	01/09/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	01/09/21 0:00	eep
Total Alkalinity		1	58.4			mg/L	2	20	01/09/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			01/18/21 0:00	calc
Sum of Anions			1.3			meq/L			01/18/21 0:00	calc
Sum of Cations			1.3			meq/L			01/18/21 0:00	calc
Chloride	SM4500Cl-E	1	0.94	B	*	mg/L	0.5	2	01/16/21 10:47	ttg
Conductivity @25C	SM2510B	1	139			umhos/cm	1	10	01/09/21 5:29	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U		mg/L	0.003	0.01	01/09/21 0:19	pjb
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		58			mg/L	0.2	5	01/18/21 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							01/08/21 14:09	scd
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.10	H		mg/L	0.02	0.1	01/18/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.100	BH	*	mg/L	0.02	0.1	01/07/21 23:14	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	01/07/21 23:41	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H		units	0.1	0.1	01/09/21 0:00	eep
pH measured at		1	21.3			C	0.1	0.1	01/09/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	72		*	mg/L	20	40	01/07/21 17:17	scd
Sulfate	D516-02/-07/-11 - Turbidimetric	1	6.6			mg/L	1	5	01/15/21 13:38	rbt

CRG Mining, LLC

Project ID: 2020 Q4

Sample ID: RM-1

ACZ Sample ID: **L63640-04**

Date Sampled: 01/05/21 10:28

Date Received: 01/07/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						01/08/21 11:10	wtc
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								01/08/21 12:35	cbj

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	01/11/21 16:58	jlw
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/12/21 14:19	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00024	B		mg/L	0.0002	0.001	01/12/21 14:19	bsu
Barium, dissolved	M200.7 ICP	1	0.0072	B		mg/L	0.007	0.035	01/11/21 16:58	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/12/21 14:19	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.000150	B		mg/L	0.00005	0.00025	01/12/21 14:19	bsu
Calcium, dissolved	M200.7 ICP	1	15.8			mg/L	0.1	0.5	01/11/21 16:58	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	01/12/21 14:19	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 16:58	jlw
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 16:58	jlw
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	01/11/21 16:58	jlw
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/12/21 14:19	bsu
Magnesium, dissolved	M200.7 ICP	1	5.38			mg/L	0.2	1	01/11/21 16:58	jlw
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 16:58	jlw
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	01/13/21 13:51	llr
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	01/11/21 16:58	jlw
Potassium, dissolved	M200.7 ICP	1	0.66	B		mg/L	0.2	1	01/11/21 16:58	jlw
Sodium, dissolved	M200.7 ICP	1	2.13			mg/L	0.2	1	01/11/21 16:58	jlw
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	01/11/21 16:58	jlw
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	01/11/21 16:58	jlw

CRG Mining, LLC

Project ID: 2020 Q4

Sample ID: RM-1

ACZ Sample ID: **L63640-04**

Date Sampled: 01/05/21 10:28

Date Received: 01/07/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	62.8			mg/L	2	20	01/09/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	01/09/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	01/09/21 0:00	eep
Total Alkalinity		1	62.8			mg/L	2	20	01/09/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-3.7			%			01/18/21 0:00	calc
Sum of Anions			1.4			meq/L			01/18/21 0:00	calc
Sum of Cations			1.3			meq/L			01/18/21 0:00	calc
Chloride	SM4500Cl-E	1	0.83	B	*	mg/L	0.5	2	01/16/21 10:47	ttg
Conductivity @25C	SM2510B	1	147			umhos/cm	1	10	01/09/21 5:39	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U		mg/L	0.003	0.01	01/09/21 0:20	pjb
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		62			mg/L	0.2	5	01/18/21 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							01/08/21 14:12	scd
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.15	H		mg/L	0.02	0.1	01/18/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.145	H	*	mg/L	0.02	0.1	01/07/21 23:17	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	01/07/21 23:17	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H		units	0.1	0.1	01/09/21 0:00	eep
pH measured at		1	21.4			C	0.1	0.1	01/09/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	76		*	mg/L	20	40	01/07/21 17:19	scd
Sulfate	D516-02/-07/-11 - Turbidimetric	1	6.3			mg/L	1	5	01/15/21 13:38	rbt

CRG Mining, LLC

Project ID: 2020 Q4

Sample ID: RM-2

ACZ Sample ID: **L63640-05**

Date Sampled: 01/05/21 10:54

Date Received: 01/07/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						01/08/21 11:17	wtc
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								01/08/21 12:35	cbj

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	01/11/21 17:01	jlw
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/12/21 14:21	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00792			mg/L	0.0002	0.001	01/12/21 14:21	bsu
Barium, dissolved	M200.7 ICP	1	<0.007	U		mg/L	0.007	0.035	01/11/21 17:01	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/12/21 14:21	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.000610			mg/L	0.00005	0.00025	01/12/21 14:21	bsu
Calcium, dissolved	M200.7 ICP	1	13.9			mg/L	0.1	0.5	01/11/21 17:01	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	01/12/21 14:21	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 17:01	jlw
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 17:01	jlw
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	01/11/21 17:01	jlw
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/12/21 14:21	bsu
Magnesium, dissolved	M200.7 ICP	1	3.20			mg/L	0.2	1	01/11/21 17:01	jlw
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 17:01	jlw
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	01/13/21 13:52	llr
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	01/11/21 17:01	jlw
Potassium, dissolved	M200.7 ICP	1	1.07			mg/L	0.2	1	01/11/21 17:01	jlw
Sodium, dissolved	M200.7 ICP	1	3.98			mg/L	0.2	1	01/11/21 17:01	jlw
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	01/11/21 17:01	jlw
Zinc, dissolved	M200.7 ICP	1	0.044	B		mg/L	0.02	0.05	01/11/21 17:01	jlw

CRG Mining, LLC

Project ID: 2020 Q4

Sample ID: RM-2

ACZ Sample ID: **L63640-05**

Date Sampled: 01/05/21 10:54

Date Received: 01/07/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	42.0			mg/L	2	20	01/09/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	01/09/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	01/09/21 0:00	eep
Total Alkalinity		1	42.0			mg/L	2	20	01/09/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-4.0			%			01/18/21 0:00	calc
Sum of Anions			1.3			meq/L			01/18/21 0:00	calc
Sum of Cations			1.2			meq/L			01/18/21 0:00	calc
Chloride	SM4500Cl-E	1	0.62	B	*	mg/L	0.5	2	01/16/21 10:47	ttg
Conductivity @25C	SM2510B	1	133			umhos/cm	1	10	01/09/21 5:49	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U		mg/L	0.003	0.01	01/09/21 0:21	pjb
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		48			mg/L	0.2	5	01/18/21 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							01/08/21 14:16	scd
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.15	H		mg/L	0.02	0.1	01/18/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.149	H	*	mg/L	0.02	0.1	01/07/21 23:22	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	01/07/21 23:22	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	01/09/21 0:00	eep
pH measured at		1	21.5			C	0.1	0.1	01/09/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	78		*	mg/L	20	40	01/07/21 17:22	scd
Sulfate	D516-02/-07/-11 - Turbidimetric	1	18.0			mg/L	1	5	01/15/21 13:38	rbt

CRG Mining, LLC

Project ID: 2020 Q4

Sample ID: RM-3

ACZ Sample ID: **L63640-06**

Date Sampled: 01/05/21 10:41

Date Received: 01/07/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						01/08/21 11:24	wtc
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								01/08/21 12:52	cbj

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	01/11/21 17:04	jlw
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/13/21 15:29	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00118			mg/L	0.0002	0.001	01/12/21 14:23	bsu
Barium, dissolved	M200.7 ICP	1	<0.007	U		mg/L	0.007	0.035	01/11/21 17:04	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/13/21 15:29	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.000182	B		mg/L	0.00005	0.00025	01/13/21 15:29	bsu
Calcium, dissolved	M200.7 ICP	1	15.6			mg/L	0.1	0.5	01/11/21 17:04	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	01/12/21 14:23	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 17:04	jlw
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 17:04	jlw
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	01/11/21 17:04	jlw
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/13/21 15:29	bsu
Magnesium, dissolved	M200.7 ICP	1	5.17			mg/L	0.2	1	01/11/21 17:04	jlw
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 17:04	jlw
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	01/13/21 13:53	llr
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	01/11/21 17:04	jlw
Potassium, dissolved	M200.7 ICP	1	0.67	B		mg/L	0.2	1	01/11/21 17:04	jlw
Sodium, dissolved	M200.7 ICP	1	2.30			mg/L	0.2	1	01/11/21 17:04	jlw
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	01/11/21 17:04	jlw
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	01/11/21 17:04	jlw

CRG Mining, LLC

Project ID: 2020 Q4

Sample ID: RM-3

ACZ Sample ID: **L63640-06**

Date Sampled: 01/05/21 10:41

Date Received: 01/07/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	61.0			mg/L	2	20	01/09/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	01/09/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	01/09/21 0:00	eep
Total Alkalinity		1	61.0			mg/L	2	20	01/09/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-3.7			%			01/18/21 0:00	calc
Sum of Anions			1.4			meq/L			01/18/21 0:00	calc
Sum of Cations			1.3			meq/L			01/18/21 0:00	calc
Chloride	SM4500Cl-E	1	0.86	B	*	mg/L	0.5	2	01/16/21 10:49	ttg
Conductivity @25C	SM2510B	1	148			umhos/cm	1	10	01/09/21 5:58	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U		mg/L	0.003	0.01	01/09/21 0:21	pjb
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		60			mg/L	0.2	5	01/18/21 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							01/08/21 14:19	scd
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.04	BH		mg/L	0.02	0.1	01/18/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.035	BH	*	mg/L	0.02	0.1	01/07/21 23:23	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	01/07/21 23:23	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H		units	0.1	0.1	01/09/21 0:00	eep
pH measured at		1	21.7			C	0.1	0.1	01/09/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	80		*	mg/L	20	40	01/07/21 17:24	scd
Sulfate	D516-02/-07/-11 - Turbidimetric	1	7.5			mg/L	1	5	01/15/21 13:38	rbt

CRG Mining, LLC

Project ID: 2020 Q4

Sample ID: CM-1

ACZ Sample ID: **L63640-07**

Date Sampled: 01/05/21 11:25

Date Received: 01/07/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						01/08/21 11:31	wtc
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								01/08/21 12:52	cbj

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	01/11/21 17:07	jlw
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/12/21 14:25	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00144			mg/L	0.0002	0.001	01/12/21 14:25	bsu
Barium, dissolved	M200.7 ICP	1	<0.007	U		mg/L	0.007	0.035	01/11/21 17:07	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/12/21 14:25	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.000141	B		mg/L	0.00005	0.00025	01/12/21 14:25	bsu
Calcium, dissolved	M200.7 ICP	1	15.6			mg/L	0.1	0.5	01/11/21 17:07	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	01/12/21 14:25	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 17:07	jlw
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 17:07	jlw
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	01/11/21 17:07	jlw
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/12/21 14:25	bsu
Magnesium, dissolved	M200.7 ICP	1	5.16			mg/L	0.2	1	01/11/21 17:07	jlw
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 17:07	jlw
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	01/13/21 13:56	llr
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	01/11/21 17:07	jlw
Potassium, dissolved	M200.7 ICP	1	0.69	B		mg/L	0.2	1	01/11/21 17:07	jlw
Sodium, dissolved	M200.7 ICP	1	2.28			mg/L	0.2	1	01/11/21 17:07	jlw
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	01/11/21 17:07	jlw
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	01/11/21 17:07	jlw

CRG Mining, LLC

Project ID: 2020 Q4

Sample ID: CM-1

ACZ Sample ID: **L63640-07**

Date Sampled: 01/05/21 11:25

Date Received: 01/07/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	73.8			mg/L	2	20	01/09/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	01/09/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	01/09/21 0:00	eep
Total Alkalinity		1	73.8			mg/L	2	20	01/09/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-13.3			%			01/18/21 0:00	calc
Sum of Anions			1.7			meq/L			01/18/21 0:00	calc
Sum of Cations			1.3			meq/L			01/18/21 0:00	calc
Chloride	SM4500Cl-E	1	0.87	B	*	mg/L	0.5	2	01/16/21 10:49	ttg
Conductivity @25C	SM2510B	1	148			umhos/cm	1	10	01/09/21 6:09	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U		mg/L	0.003	0.01	01/09/21 0:22	pjb
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		60			mg/L	0.2	5	01/18/21 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							01/08/21 14:23	scd
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.14	H		mg/L	0.02	0.1	01/18/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.142	H	*	mg/L	0.02	0.1	01/07/21 23:24	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	01/07/21 23:24	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H		units	0.1	0.1	01/09/21 0:00	eep
pH measured at		1	21.6			C	0.1	0.1	01/09/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	76		*	mg/L	20	40	01/07/21 17:27	scd
Sulfate	D516-02/-07/-11 - Turbidimetric	1	7.9			mg/L	1	5	01/15/21 13:38	rbt

CRG Mining, LLC

Project ID: 2020 Q4

Sample ID: CM-2

ACZ Sample ID: **L63640-08**

Date Sampled: 01/05/21 11:15

Date Received: 01/07/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						01/08/21 11:39	wtc
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								01/08/21 12:52	cbj

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	01/11/21 17:10	jlw
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/12/21 14:27	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00203			mg/L	0.0002	0.001	01/12/21 14:27	bsu
Barium, dissolved	M200.7 ICP	1	<0.007	U		mg/L	0.007	0.035	01/11/21 17:10	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/12/21 14:27	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.000065	B		mg/L	0.00005	0.00025	01/12/21 14:27	bsu
Calcium, dissolved	M200.7 ICP	1	16.2			mg/L	0.1	0.5	01/11/21 17:10	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	01/12/21 14:27	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 17:10	jlw
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 17:10	jlw
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	01/11/21 17:10	jlw
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/12/21 14:27	bsu
Magnesium, dissolved	M200.7 ICP	1	3.16			mg/L	0.2	1	01/11/21 17:10	jlw
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 17:10	jlw
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	01/13/21 13:57	llr
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	01/11/21 17:10	jlw
Potassium, dissolved	M200.7 ICP	1	0.55	B		mg/L	0.2	1	01/11/21 17:10	jlw
Sodium, dissolved	M200.7 ICP	1	5.60			mg/L	0.2	1	01/11/21 17:10	jlw
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	01/11/21 17:10	jlw
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	01/11/21 17:10	jlw

CRG Mining, LLC

Project ID: 2020 Q4

Sample ID: CM-2

ACZ Sample ID: **L63640-08**

Date Sampled: 01/05/21 11:15

Date Received: 01/07/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	51.6			mg/L	2	20	01/09/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	01/09/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	01/09/21 0:00	eep
Total Alkalinity		1	51.6			mg/L	2	20	01/09/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-3.7			%			01/18/21 0:00	calc
Sum of Anions			1.4			meq/L			01/18/21 0:00	calc
Sum of Cations			1.3			meq/L			01/18/21 0:00	calc
Chloride	SM4500Cl-E	1	0.84	B	*	mg/L	0.5	2	01/16/21 10:49	ttg
Conductivity @25C	SM2510B	1	154			umhos/cm	1	10	01/09/21 6:17	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U		mg/L	0.003	0.01	01/09/21 0:42	pjb
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		54			mg/L	0.2	5	01/18/21 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							01/08/21 14:26	scd
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.13	H		mg/L	0.02	0.1	01/18/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.128	H	*	mg/L	0.02	0.1	01/07/21 23:26	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	01/07/21 23:26	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	01/09/21 0:00	eep
pH measured at		1	21.4			C	0.1	0.1	01/09/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	90		*	mg/L	20	40	01/08/21 16:48	scd
Sulfate	D516-02/-07/-11 - Turbidimetric	1	13.4			mg/L	1	5	01/15/21 13:38	rbt

CRG Mining, LLC

Project ID: 2020 Q4

Sample ID: CM-3

ACZ Sample ID: **L63640-09**

Date Sampled: 01/05/21 11:35

Date Received: 01/07/21

Sample Matrix: Surface Water

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						01/08/21 11:46	wtc
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								01/08/21 12:52	cbj

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	01/11/21 17:13	jlw
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	01/12/21 14:32	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00153			mg/L	0.0002	0.001	01/12/21 14:32	bsu
Barium, dissolved	M200.7 ICP	1	<0.007	U		mg/L	0.007	0.035	01/11/21 17:13	jlw
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	01/12/21 14:32	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.000151	B		mg/L	0.00005	0.00025	01/12/21 14:32	bsu
Calcium, dissolved	M200.7 ICP	1	15.9			mg/L	0.1	0.5	01/11/21 17:13	jlw
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	01/12/21 14:32	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 17:13	jlw
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 17:13	jlw
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	01/11/21 17:13	jlw
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	01/12/21 14:32	bsu
Magnesium, dissolved	M200.7 ICP	1	5.01			mg/L	0.2	1	01/11/21 17:13	jlw
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	01/11/21 17:13	jlw
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	01/13/21 13:57	llr
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	01/11/21 17:13	jlw
Potassium, dissolved	M200.7 ICP	1	0.69	B		mg/L	0.2	1	01/11/21 17:13	jlw
Sodium, dissolved	M200.7 ICP	1	2.64			mg/L	0.2	1	01/11/21 17:13	jlw
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	01/11/21 17:13	jlw
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	01/11/21 17:13	jlw

CRG Mining, LLC

Project ID: 2020 Q4

Sample ID: CM-3

ACZ Sample ID: **L63640-09**

Date Sampled: 01/05/21 11:35

Date Received: 01/07/21

Sample Matrix: Surface Water

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO ₃	SM2320B - Titration									
Bicarbonate as CaCO ₃		1	60.7			mg/L	2	20	01/09/21 0:00	eep
Carbonate as CaCO ₃		1	<2	U		mg/L	2	20	01/09/21 0:00	eep
Hydroxide as CaCO ₃		1	<2	U		mg/L	2	20	01/09/21 0:00	eep
Total Alkalinity		1	60.7			mg/L	2	20	01/09/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-3.7			%			01/18/21 0:00	calc
Sum of Anions			1.4			meq/L			01/18/21 0:00	calc
Sum of Cations			1.3			meq/L			01/18/21 0:00	calc
Chloride	SM4500Cl-E	1	0.85	B	*	mg/L	0.5	2	01/16/21 10:49	ttg
Conductivity @25C	SM2510B	1	151			umhos/cm	1	10	01/09/21 6:27	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U		mg/L	0.003	0.01	01/09/21 0:43	pjb
Hardness as CaCO ₃ (dissolved)	SM2340B - Calculation		60			mg/L	0.2	5	01/18/21 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							01/08/21 14:30	scd
Nitrate as N, dissolved	Calculation: NO ₃ NO ₂ minus NO ₂		0.04	BH		mg/L	0.02	0.1	01/18/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.038	BH	*	mg/L	0.02	0.1	01/07/21 23:27	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	01/07/21 23:27	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H		units	0.1	0.1	01/09/21 0:00	eep
pH measured at		1	21.4			C	0.1	0.1	01/09/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	72		*	mg/L	20	40	01/08/21 16:51	scd
Sulfate	D516-02/-07/-11 - Turbidimetric	1	8.4			mg/L	1	5	01/15/21 13:39	rbt

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>

CRG Mining, LLC

ACZ Project ID: **L63640**

NOTE: If the Rec% column is null, the high/low 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
WG512530													
WG512530PBW1	PBW	01/08/21 17:08				3.1	mg/L		-20	20			
WG512530LCSW3	LCSW	01/08/21 17:27	WC201222-9	820.0001		777.8	mg/L	95	90	110			
WG512530LCSW6	LCSW	01/08/21 20:33	WC201222-9	820.0001		779.4	mg/L	95	90	110			
WG512530PBW2	PBW	01/08/21 20:42				2.8	mg/L		-20	20			
WG512530LCSW9	LCSW	01/08/21 23:36	WC201222-9	820.0001		783	mg/L	95	90	110			
WG512530PBW3	PBW	01/08/21 23:44				2.7	mg/L		-20	20			
WG512530LCSW12	LCSW	01/09/21 3:20	WC201222-9	820.0001		787.7	mg/L	96	90	110			
WG512530PBW4	PBW	01/09/21 3:30				2.8	mg/L		-20	20			
L63652-01DUP	DUP	01/09/21 6:48			373	373.3	mg/L				0	20	
WG512530LCSW15	LCSW	01/09/21 7:08	WC201222-9	820.0001		793.5	mg/L	97	90	110			

Aluminum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG512598													
WG512598ICV	ICV	01/11/21 15:50	II201223-1	2		1.995	mg/L	100	95	105			
WG512598ICB	ICB	01/11/21 15:56				U	mg/L		-0.15	0.15			
WG512598LFB	LFB	01/11/21 16:09	II210108-2	1.0013		1.002	mg/L	100	85	115			
L63579-05AS	AS	01/11/21 16:18	II210108-2	1.0013	U	.978	mg/L	98	85	115			
L63579-05ASD	ASD	01/11/21 16:21	II210108-2	1.0013	U	.987	mg/L	99	85	115	1	20	
L63640-09AS	AS	01/11/21 17:22	II210108-2	1.0013	U	.959	mg/L	96	85	115			
L63640-09ASD	ASD	01/11/21 17:25	II210108-2	1.0013	U	.97	mg/L	97	85	115	1	20	

Antimony, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG512654													
WG512654ICV	ICV	01/12/21 13:56	MS201231-1	.02004		.01971	mg/L	98	90	110			
WG512654ICB	ICB	01/12/21 13:57				U	mg/L		-0.00088	0.00088			
WG512654LFB	LFB	01/12/21 13:59	MS201228-2	.01		.00913	mg/L	91	85	115			
L63602-08AS	AS	01/12/21 14:03	MS201228-2	.01	U	.00843	mg/L	84	70	130			
L63602-08ASD	ASD	01/12/21 14:05	MS201228-2	.01	U	.00847	mg/L	85	70	130	0	20	
L63640-08AS	AS	01/12/21 14:28	MS201228-2	.01	U	.0086	mg/L	86	70	130			
L63640-08ASD	ASD	01/12/21 14:30	MS201228-2	.01	U	.00867	mg/L	87	70	130	1	20	
WG512686													
WG512686ICV	ICV	01/13/21 15:01	MS201231-1	.02004		.01842	mg/L	92	90	110			
WG512686ICB	ICB	01/13/21 15:02				U	mg/L		-0.00088	0.00088			
WG512686LFB	LFB	01/13/21 15:04	MS201228-2	.01		.01031	mg/L	103	85	115			
L63636-01AS	AS	01/13/21 15:20	MS201228-2	.05	U	.05052	mg/L	101	70	130			
L63636-01ASD	ASD	01/13/21 15:22	MS201228-2	.05	U	.05025	mg/L	101	70	130	1	20	

CRG Mining, LLC

ACZ Project ID: **L63640**

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

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG512654													
WG512654ICV	ICV	01/12/21 13:56	MS201231-1	.05		.05108	mg/L	102	90	110			
WG512654ICB	ICB	01/12/21 13:57				U	mg/L		-0.00044	0.00044			
WG512654LFB	LFB	01/12/21 13:59	MS201228-2	.05005		.04602	mg/L	92	85	115			
L63602-08AS	AS	01/12/21 14:03	MS201228-2	.05005	U	.04918	mg/L	98	70	130			
L63602-08ASD	ASD	01/12/21 14:05	MS201228-2	.05005	U	.04872	mg/L	97	70	130	1	20	
L63640-08AS	AS	01/12/21 14:28	MS201228-2	.05005	.00203	.04867	mg/L	93	70	130			
L63640-08ASD	ASD	01/12/21 14:30	MS201228-2	.05005	.00203	.04848	mg/L	93	70	130	0	20	

Barium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG512598													
WG512598ICV	ICV	01/11/21 15:50	II201223-1	2		2.0175	mg/L	101	95	105			
WG512598ICB	ICB	01/11/21 15:56				U	mg/L		-0.021	0.021			
WG512598LFB	LFB	01/11/21 16:09	II210108-2	.5		.4916	mg/L	98	85	115			
L63579-05AS	AS	01/11/21 16:18	II210108-2	.5	.0153	.4925	mg/L	95	85	115			
L63579-05ASD	ASD	01/11/21 16:21	II210108-2	.5	.0153	.4972	mg/L	96	85	115	1	20	
L63640-09AS	AS	01/11/21 17:22	II210108-2	.5	U	.4777	mg/L	96	85	115			
L63640-09ASD	ASD	01/11/21 17:25	II210108-2	.5	U	.4761	mg/L	95	85	115	0	20	

Beryllium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG512654													
WG512654ICV	ICV	01/12/21 13:56	MS201231-1	.05		.049411	mg/L	99	90	110			
WG512654ICB	ICB	01/12/21 13:57				U	mg/L		-0.000176	0.000176			
WG512654LFB	LFB	01/12/21 13:59	MS201228-2	.05005		.046029	mg/L	92	85	115			
L63602-08AS	AS	01/12/21 14:03	MS201228-2	.05005	U	.047104	mg/L	94	70	130			
L63602-08ASD	ASD	01/12/21 14:05	MS201228-2	.05005	U	.047143	mg/L	94	70	130	0	20	
L63640-08AS	AS	01/12/21 14:28	MS201228-2	.05005	U	.047672	mg/L	95	70	130			
L63640-08ASD	ASD	01/12/21 14:30	MS201228-2	.05005	U	.048307	mg/L	97	70	130	1	20	
WG512686													
WG512686ICV	ICV	01/13/21 15:01	MS201231-1	.05		.048686	mg/L	97	90	110			
WG512686ICB	ICB	01/13/21 15:02				U	mg/L		-0.000176	0.000176			
WG512686LFB	LFB	01/13/21 15:04	MS201228-2	.05005		.048178	mg/L	96	85	115			
L63636-01AS	AS	01/13/21 15:20	MS201228-2	.25025	.0057	.260631	mg/L	102	70	130			
L63636-01ASD	ASD	01/13/21 15:22	MS201228-2	.25025	.0057	.265947	mg/L	104	70	130	2	20	

CRG Mining, LLC

ACZ Project ID: **L63640**

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

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG512654													
WG512654ICV	ICV	01/12/21 13:56	MS201231-1	.05		.051494	mg/L	103	90	110			
WG512654ICB	ICB	01/12/21 13:57				U	mg/L		-0.00011	0.00011			
WG512654LFB	LFB	01/12/21 13:59	MS201228-2	.05005		.045302	mg/L	91	85	115			
L63602-08AS	AS	01/12/21 14:03	MS201228-2	.05005	U	.045401	mg/L	91	70	130			
L63602-08ASD	ASD	01/12/21 14:05	MS201228-2	.05005	U	.045959	mg/L	92	70	130	1	20	
L63640-08AS	AS	01/12/21 14:28	MS201228-2	.05005	.000065	.045504	mg/L	91	70	130			
L63640-08ASD	ASD	01/12/21 14:30	MS201228-2	.05005	.000065	.045809	mg/L	91	70	130	1	20	
WG512686													
WG512686ICV	ICV	01/13/21 15:01	MS201231-1	.05		.049473	mg/L	99	90	110			
WG512686ICB	ICB	01/13/21 15:02				U	mg/L		-0.00011	0.00011			
WG512686LFB	LFB	01/13/21 15:04	MS201228-2	.05005		.046761	mg/L	93	85	115			
L63636-01AS	AS	01/13/21 15:20	MS201228-2	.25025	.00797	.261032	mg/L	101	70	130			
L63636-01ASD	ASD	01/13/21 15:22	MS201228-2	.25025	.00797	.26405	mg/L	102	70	130	1	20	

Calcium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG512598													
WG512598ICV	ICV	01/11/21 15:50	II201223-1	100		99.37	mg/L	99	95	105			
WG512598ICB	ICB	01/11/21 15:56				U	mg/L		-0.3	0.3			
WG512598LFB	LFB	01/11/21 16:09	II210108-2	68.0028		69.37	mg/L	102	85	115			
L63579-05AS	AS	01/11/21 16:18	II210108-2	68.0028	6.42	73.58	mg/L	99	85	115			
L63579-05ASD	ASD	01/11/21 16:21	II210108-2	68.0028	6.42	73.48	mg/L	99	85	115	0	20	
L63640-09AS	AS	01/11/21 17:22	II210108-2	68.0028	15.9	81.6	mg/L	97	85	115			
L63640-09ASD	ASD	01/11/21 17:25	II210108-2	68.0028	15.9	82.12	mg/L	97	85	115	1	20	

Chloride

SM4500Cl-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG512959													
WG512959ICB	ICB	01/16/21 9:40				U	mg/L		-1.5	1.5			
WG512959ICV	ICV	01/16/21 9:40	WI200506-2	55.055		59.59	mg/L	108	90	110			
WG512959LFB1	LFB	01/16/21 10:45	WI200327-3	30.03		32.52	mg/L	108	90	110			
L63640-02AS	AS	01/16/21 10:47	WI200327-3	30.03	1.08	33.23	mg/L	107	90	110			
L63640-03DUP	DUP	01/16/21 10:47			.94	.92	mg/L				2	20	RA
WG512959LFB2	LFB	01/16/21 11:13	WI200327-3	30.03		32.36	mg/L	108	90	110			

Chromium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG512654													
WG512654ICV	ICV	01/12/21 13:56	MS201231-1	.05		.05201	mg/L	104	90	110			
WG512654ICB	ICB	01/12/21 13:57				U	mg/L		-0.0011	0.0011			
WG512654LFB	LFB	01/12/21 13:59	MS201228-2	.05		.04616	mg/L	92	85	115			
L63602-08AS	AS	01/12/21 14:03	MS201228-2	.05	U	.04651	mg/L	93	70	130			
L63602-08ASD	ASD	01/12/21 14:05	MS201228-2	.05	U	.04598	mg/L	92	70	130	1	20	
L63640-08AS	AS	01/12/21 14:28	MS201228-2	.05	U	.04565	mg/L	91	70	130			
L63640-08ASD	ASD	01/12/21 14:30	MS201228-2	.05	U	.04605	mg/L	92	70	130	1	20	

CRG Mining, LLC

ACZ Project ID: **L63640**

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

Cobalt, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG512598													
WG512598ICV	ICV	01/11/21 15:50	II201223-1	2.004		2.023	mg/L	101	95	105			
WG512598ICB	ICB	01/11/21 15:56				U	mg/L		-0.03	0.03			
WG512598LFB	LFB	01/11/21 16:09	II210108-2	.5		.485	mg/L	97	85	115			
L63579-05AS	AS	01/11/21 16:18	II210108-2	.5	U	.474	mg/L	95	85	115			
L63579-05ASD	ASD	01/11/21 16:21	II210108-2	.5	U	.481	mg/L	96	85	115	1	20	
L63640-09AS	AS	01/11/21 17:22	II210108-2	.5	U	.459	mg/L	92	85	115			
L63640-09ASD	ASD	01/11/21 17:25	II210108-2	.5	U	.457	mg/L	91	85	115	0	20	

Conductivity @25C

SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG512530													
WG512530LCSW2	LCSW	01/08/21 17:15	PCN62483	1410		1488	umhos/cm	106	90	110			
WG512530LCSW5	LCSW	01/08/21 20:21	PCN62483	1410		1531	umhos/cm	109	90	110			
WG512530LCSW8	LCSW	01/08/21 23:24	PCN62483	1410		1526	umhos/cm	108	90	110			
WG512530LCSW11	LCSW	01/09/21 3:08	PCN62483	1410		1516	umhos/cm	108	90	110			
L63652-01DUP	DUP	01/09/21 6:48			3530	3540	umhos/cm				0	20	
WG512530LCSW14	LCSW	01/09/21 6:55	PCN62483	1410		1511	umhos/cm	107	90	110			

Copper, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG512598													
WG512598ICV	ICV	01/11/21 15:50	II201223-1	2		1.979	mg/L	99	95	105			
WG512598ICB	ICB	01/11/21 15:56				U	mg/L		-0.03	0.03			
WG512598LFB	LFB	01/11/21 16:09	II210108-2	.5015		.489	mg/L	98	85	115			
L63579-05AS	AS	01/11/21 16:18	II210108-2	.5015	U	.473	mg/L	94	85	115			
L63579-05ASD	ASD	01/11/21 16:21	II210108-2	.5015	U	.476	mg/L	95	85	115	1	20	
L63640-09AS	AS	01/11/21 17:22	II210108-2	.5015	U	.47	mg/L	94	85	115			
L63640-09ASD	ASD	01/11/21 17:25	II210108-2	.5015	U	.464	mg/L	93	85	115	1	20	

Cyanide, total

M335.4 - Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG512537													
WG512537ICV	ICV	01/08/21 23:21	WI201226-6	.3		.2913	mg/L	97	90	110			
WG512537ICB	ICB	01/08/21 23:22				U	mg/L		-0.003	0.003			
WG512539													
WG512486LRB	LRB	01/09/21 0:04				U	mg/L		-0.003	0.003			
WG512486LFB	LFB	01/09/21 0:05	WI201226-4	.2		.2168	mg/L	108	90	110			
L63633-01DUP	DUP	01/09/21 0:07			U	U	mg/L				0	20	RA
L63633-02LFM	LFM	01/09/21 0:08	WI201226-4	.2	U	.2171	mg/L	109	90	110			
L63647-01LFM	LFM	01/09/21 0:45	WI201226-4	.2	.506	.7233	mg/L	109	90	110			
L63648-01DUP	DUP	01/09/21 0:47			41.9	41.075	mg/L				2	20	

CRG Mining, LLC

ACZ Project ID: **L63640**

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

Iron, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG512598													
WG512598ICV	ICV	01/11/21 15:50	II201223-1	2		1.955	mg/L	98	95	105			
WG512598ICB	ICB	01/11/21 15:56				U	mg/L		-0.18	0.18			
WG512598LFB	LFB	01/11/21 16:09	II210108-2	1.0018		.953	mg/L	95	85	115			
L63579-05AS	AS	01/11/21 16:18	II210108-2	1.0018	U	.958	mg/L	96	85	115			
L63579-05ASD	ASD	01/11/21 16:21	II210108-2	1.0018	U	.982	mg/L	98	85	115	2	20	
L63640-09AS	AS	01/11/21 17:22	II210108-2	1.0018	U	.923	mg/L	92	85	115			
L63640-09ASD	ASD	01/11/21 17:25	II210108-2	1.0018	U	.909	mg/L	91	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
WG512654													
WG512654ICV	ICV	01/12/21 13:56	MS201231-1	.05		.05247	mg/L	105	90	110			
WG512654ICB	ICB	01/12/21 13:57				U	mg/L		-0.00022	0.00022			
WG512654LFB	LFB	01/12/21 13:59	MS201228-2	.05005		.04692	mg/L	94	85	115			
L63602-08AS	AS	01/12/21 14:03	MS201228-2	.05005	U	.04728	mg/L	94	70	130			
L63602-08ASD	ASD	01/12/21 14:05	MS201228-2	.05005	U	.04788	mg/L	96	70	130	1	20	
L63640-08AS	AS	01/12/21 14:28	MS201228-2	.05005	U	.04615	mg/L	92	70	130			
L63640-08ASD	ASD	01/12/21 14:30	MS201228-2	.05005	U	.04705	mg/L	94	70	130	2	20	
WG512686													
WG512686ICV	ICV	01/13/21 15:01	MS201231-1	.05		.04979	mg/L	100	90	110			
WG512686ICB	ICB	01/13/21 15:02				U	mg/L		-0.00022	0.00022			
WG512686LFB	LFB	01/13/21 15:04	MS201228-2	.05005		.04784	mg/L	96	85	115			
L63636-01AS	AS	01/13/21 15:20	MS201228-2	.25025	U	.25683	mg/L	103	70	130			
L63636-01ASD	ASD	01/13/21 15:22	MS201228-2	.25025	U	.25871	mg/L	103	70	130	1	20	

Magnesium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG512598													
WG512598ICV	ICV	01/11/21 15:50	II201223-1	100		100.32	mg/L	100	95	105			
WG512598ICB	ICB	01/11/21 15:56				U	mg/L		-0.6	0.6			
WG512598LFB	LFB	01/11/21 16:09	II210108-2	50.00226		50.2	mg/L	100	85	115			
L63579-05AS	AS	01/11/21 16:18	II210108-2	50.00226	1.42	50.43	mg/L	98	85	115			
L63579-05ASD	ASD	01/11/21 16:21	II210108-2	50.00226	1.42	50.61	mg/L	98	85	115	0	20	
L63640-09AS	AS	01/11/21 17:22	II210108-2	50.00226	5.01	53.27	mg/L	97	85	115			
L63640-09ASD	ASD	01/11/21 17:25	II210108-2	50.00226	5.01	53.69	mg/L	97	85	115	1	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG512598													
WG512598ICV	ICV	01/11/21 15:50	II201223-1	2		1.974	mg/L	99	95	105			
WG512598ICB	ICB	01/11/21 15:56				U	mg/L		-0.03	0.03			
WG512598LFB	LFB	01/11/21 16:09	II210108-2	.5005		.477	mg/L	95	85	115			
L63579-05AS	AS	01/11/21 16:18	II210108-2	.5005	U	.463	mg/L	93	85	115			
L63579-05ASD	ASD	01/11/21 16:21	II210108-2	.5005	U	.469	mg/L	94	85	115	1	20	
L63640-09AS	AS	01/11/21 17:22	II210108-2	.5005	U	.458	mg/L	92	85	115			
L63640-09ASD	ASD	01/11/21 17:25	II210108-2	.5005	U	.453	mg/L	91	85	115	1	20	

CRG Mining, LLC

ACZ Project ID: **L63640**

NOTE: If the Rec% column is null, the high/low 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
WG512687													
WG512687ICV	ICV	01/13/21 13:06	HG201109-2	.005		.00507	mg/L	101	95	105			
WG512687ICB	ICB	01/13/21 13:07				U	mg/L		-0.0002	0.0002			
WG512687LRB	LRB	01/13/21 13:09				U	mg/L		-0.00044	0.00044			
WG512687LFB	LFB	01/13/21 13:10	HG210111-3	.002002		.00194	mg/L	97	85	115			
L63636-04LFM	LFM	01/13/21 13:33	HG210111-3	.002002	U	.00185	mg/L	92	85	115			
L63636-04LFMD	LFMD	01/13/21 13:34	HG210111-3	.002002	U	.00194	mg/L	97	85	115	5	20	

WG512688

WG512688LRB	LRB	01/13/21 13:45				U	mg/L		-0.00044	0.00044			
WG512688LFB	LFB	01/13/21 13:46	HG210111-3	.002002		.00176	mg/L	88	85	115			
L63640-03LFM	LFM	01/13/21 13:49	HG210111-3	.002002	U	.00175	mg/L	87	85	115			
L63640-03LFMD	LFMD	01/13/21 13:50	HG210111-3	.002002	U	.00176	mg/L	88	85	115	1	20	

Nickel, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG512598													
WG512598ICV	ICV	01/11/21 15:50	II201223-1	2		1.992	mg/L	100	95	105			
WG512598ICB	ICB	01/11/21 15:56				U	mg/L		-0.024	0.024			
WG512598LFB	LFB	01/11/21 16:09	II210108-2	.502		.49	mg/L	98	85	115			
L63579-05AS	AS	01/11/21 16:18	II210108-2	.502	U	.476	mg/L	95	85	115			
L63579-05ASD	ASD	01/11/21 16:21	II210108-2	.502	U	.4773	mg/L	95	85	115	0	20	
L63640-09AS	AS	01/11/21 17:22	II210108-2	.502	U	.467	mg/L	93	85	115			
L63640-09ASD	ASD	01/11/21 17:25	II210108-2	.502	U	.4632	mg/L	92	85	115	1	20	

Nitrate/Nitrite as N, dissolved

M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG512471													
WG512471ICV	ICV	01/07/21 22:46	WI201117-3	2.416		2.433	mg/L	101	90	110			
WG512471ICB	ICB	01/07/21 22:47				U	mg/L		-0.02	0.02			
WG512471LFB	LFB	01/07/21 22:51	WI201001-11	2		2.124	mg/L	106	90	110			
L63640-02AS	AS	01/07/21 23:13	WI201001-11	2	.11	2.141	mg/L	102	90	110			
L63640-03DUP	DUP	01/07/21 23:15			.1	.112	mg/L				11	20	RA
L63628-03AS	AS	01/07/21 23:33	WI201001-11	20	9.42	29.751	mg/L	102	90	110			
L63629-01DUP	DUP	01/07/21 23:36			5.06	5.136	mg/L				1	20	

Nitrite as N, dissolved

M353.2 - Automated Cadmium Reduction

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG512471													
WG512471ICV	ICV	01/07/21 22:46	WI201117-3	.609		.617	mg/L	101	90	110			
WG512471ICB	ICB	01/07/21 22:47				U	mg/L		-0.01	0.01			
WG512471LFB	LFB	01/07/21 22:51	WI201001-11	1		1.028	mg/L	103	90	110			
L63628-03AS	AS	01/07/21 22:54	WI201001-11	1	.018	1.021	mg/L	100	90	110			
L63629-01DUP	DUP	01/07/21 22:56			.063	.062	mg/L				2	20	RA
L63640-02AS	AS	01/07/21 23:13	WI201001-11	1	U	1.023	mg/L	102	90	110			
L63640-03DUP	DUP	01/07/21 23:42			U	U	mg/L				0	20	RA

CRG Mining, LLC

ACZ Project ID: **L63640**

NOTE: If the Rec% column is null, the high/low 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
WG512530													
WG512530LCSW1	LCSW	01/08/21 17:12	PCN61687	6		6.1	units	102	5.9	6.1			
WG512530LCSW4	LCSW	01/08/21 20:19	PCN61687	6		6.1	units	102	5.9	6.1			
WG512530LCSW7	LCSW	01/08/21 23:22	PCN61687	6		6.1	units	102	5.9	6.1			
WG512530LCSW10	LCSW	01/09/21 3:06	PCN61687	6		6.1	units	102	5.9	6.1			
L63652-01DUP	DUP	01/09/21 6:48			8.3	8.3	units				0	20	
WG512530LCSW13	LCSW	01/09/21 6:53	PCN61687	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
WG512598													
WG512598ICV	ICV	01/11/21 15:50	II201223-1	20		20.03	mg/L	100	95	105			
WG512598ICB	ICB	01/11/21 15:56				U	mg/L		-0.6	0.6			
WG512598LFB	LFB	01/11/21 16:09	II210108-2	99.96847		100.5	mg/L	101	85	115			
L63579-05AS	AS	01/11/21 16:18	II210108-2	99.96847	.99	99.47	mg/L	99	85	115			
L63579-05ASD	ASD	01/11/21 16:21	II210108-2	99.96847	.99	99.86	mg/L	99	85	115	0	20	
L63640-09AS	AS	01/11/21 17:22	II210108-2	99.96847	.69	97.48	mg/L	97	85	115			
L63640-09ASD	ASD	01/11/21 17:25	II210108-2	99.96847	.69	98.95	mg/L	98	85	115	1	20	

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG512459													
WG512459PBW	PBW	01/07/21 16:30				U	mg/L		-20	20			
WG512459LCSW	LCSW	01/07/21 16:32	PCN62894	1000		978	mg/L	98	80	120			
L63640-07DUP	DUP	01/07/21 17:30			76	76	mg/L				0	10	RA
WG512532													
WG512532PBW	PBW	01/08/21 15:55				U	mg/L		-20	20			
WG512532LCSW	LCSW	01/08/21 15:57	PCN62894	1000		984	mg/L	98	80	120			
L63641-02DUP	DUP	01/08/21 17:00			1040	1060	mg/L				2	10	

Sodium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG512598													
WG512598ICV	ICV	01/11/21 15:50	II201223-1	100		98.84	mg/L	99	95	105			
WG512598ICB	ICB	01/11/21 15:56				U	mg/L		-0.6	0.6			
WG512598LFB	LFB	01/11/21 16:09	II210108-2	100.0141		99.14	mg/L	99	85	115			
L63579-05AS	AS	01/11/21 16:18	II210108-2	100.0141	3.04	99.57	mg/L	97	85	115			
L63579-05ASD	ASD	01/11/21 16:21	II210108-2	100.0141	3.04	99.62	mg/L	97	85	115	0	20	
L63640-09AS	AS	01/11/21 17:22	II210108-2	100.0141	2.64	97.25	mg/L	95	85	115			
L63640-09ASD	ASD	01/11/21 17:25	II210108-2	100.0141	2.64	98.61	mg/L	96	85	115	1	20	

CRG Mining, LLC

ACZ Project ID: **L63640**

NOTE: If the Rec% column is null, the high/low 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
WG512899													
WG512899ICB	ICB	01/15/21 9:43				U	mg/L		-3	3			
WG512899ICV	ICV	01/15/21 9:43	WI210105-1	20		20	mg/L	100	90	110			
WG512899LFB	LFB	01/15/21 12:49	WI210105-3	10		10.1	mg/L	101	90	110			
L63640-01AS	AS	01/15/21 13:38	WI210105-3	10	3.9	14.7	mg/L	108	90	110			
L63640-02DUP	DUP	01/15/21 13:38			29.7	30	mg/L				1	20	

Vanadium, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG512598													
WG512598ICV	ICV	01/11/21 15:50	II201223-1	2		1.999	mg/L	100	95	105			
WG512598ICB	ICB	01/11/21 15:56				U	mg/L		-0.015	0.015			
WG512598LFB	LFB	01/11/21 16:09	II210108-2	.4995		.5041	mg/L	101	85	115			
L63579-05AS	AS	01/11/21 16:18	II210108-2	.4995	U	.4932	mg/L	99	85	115			
L63579-05ASD	ASD	01/11/21 16:21	II210108-2	.4995	U	.502	mg/L	101	85	115	2	20	
L63640-09AS	AS	01/11/21 17:22	II210108-2	.4995	U	.4859	mg/L	97	85	115			
L63640-09ASD	ASD	01/11/21 17:25	II210108-2	.4995	U	.491	mg/L	98	85	115	1	20	

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG512598													
WG512598ICV	ICV	01/11/21 15:50	II201223-1	2		1.999	mg/L	100	95	105			
WG512598ICB	ICB	01/11/21 15:56				U	mg/L		-0.06	0.06			
WG512598LFB	LFB	01/11/21 16:09	II210108-2	.50075		.524	mg/L	105	85	115			
L63579-05AS	AS	01/11/21 16:18	II210108-2	.50075	U	.541	mg/L	108	85	115			
L63579-05ASD	ASD	01/11/21 16:21	II210108-2	.50075	U	.517	mg/L	103	85	115	5	20	
L63640-09AS	AS	01/11/21 17:22	II210108-2	.50075	U	.544	mg/L	109	85	115			
L63640-09ASD	ASD	01/11/21 17:25	II210108-2	.50075	U	.527	mg/L	105	85	115	3	20	

CRG Mining, LLC

ACZ Project ID: **L63640**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L63640-01	WG512959	Chloride	SM4500Cl-E	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG512539	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).
	WG512471	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time preceeds filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time preceeds filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
	WG512459	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).
L63640-02	WG512959	Chloride	SM4500Cl-E	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG512471	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time preceeds filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
			M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time preceeds filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
	WG512459	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).

CRG Mining, LLC

ACZ Project ID: **L63640**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L63640-03	WG512959	Chloride	SM4500Cl-E	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG512471	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time preceeds filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time preceeds filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
	WG512459	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).
L63640-04	WG512959	Chloride	SM4500Cl-E	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG512471	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time preceeds filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time preceeds filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
	WG512459	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).

CRG Mining, LLC

ACZ Project ID: **L63640**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L63640-05	WG512959	Chloride	SM4500Cl-E	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG512471	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	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).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time precedes filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	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).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time precedes filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
	WG512459	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).
L63640-06	WG512959	Chloride	SM4500Cl-E	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG512471	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	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).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time precedes filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	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).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time precedes filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
	WG512459	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).

CRG Mining, LLC

ACZ Project ID: **L63640**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L63640-07	WG512959	Chloride	SM4500Cl-E	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG512471	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	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).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time precedes filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	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).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time precedes filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
	WG512459	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).
L63640-08	WG512959	Chloride	SM4500Cl-E	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG512471	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	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).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time precedes filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	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).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time precedes filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
	WG512532	Residue, Filterable (TDS) @180C	SM2540C	N1	See Case Narrative.

CRG Mining, LLCACZ Project ID: **L63640**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L63640-09	WG512959	Chloride	SM4500Cl-E	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG512471	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	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).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time precedes filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	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).
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time precedes filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
WG512532	Residue, Filterable (TDS) @180C		SM2540C	N1	See Case Narrative.

CRG Mining, LLC

ACZ Project ID: **L63640**

No certification qualifiers associated with this analysis

CRG Mining, LLC
2020 Q4

ACZ Project ID: L63640
Date Received: 01/07/2021 10:40
Received By:
Date Printed: 1/8/2021

Receipt Verification

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

Samples/Containers

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

NA indicates Not Applicable

CRG Mining, LLC
2020 Q4

ACZ Project ID: L63640
Date Received: 01/07/2021 10:40
Received By:
Date Printed: 1/8/2021

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
-----	-----	-----	-----	-----
6855	5.9	<=6.0	15	Yes

Was ice present in the shipment container(s)?

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

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

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



Laboratories, Inc. L63640

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

CHAIN of CUSTODY

Report to:

Name: DAKE WILKINSON
 Company: CHL MINING LLC
 E-mail: GOLDLINKS1987@GMAIL.COM

Address: 510 South Wisconsin St
 Telephone: 970-417-3311

Copy of Report to:

Name: _____
 Company: _____

E-mail: _____
 Telephone: _____

Invoice to:

Name: SAME
 Company: _____
 E-mail: _____

Address: _____
 Telephone: _____

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses?

YES ☒
 NO ☐

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

Are samples for SDWA Compliance Monitoring?

Yes ☐ No ☒

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

Sampler's Name: PAUL WILKINSON Sampler's Site Information State CO. Zip code 81401 Time Zone M

*Sampler's Signature: PAUL WILKINSON

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 #:

PO#: 2020 Q4

Reporting state for compliance testing: CO

Check box if samples include NRC licensed material? ☐

SAMPLE IDENTIFICATION	DATE:TIME	Matrix
GL-1	1-5-21 ~ 10:03AM	SW
GL-2	1-5-21 ~ 9:52AM	SW
GL-3	1-5-21 ~ 10:18AM	SW
RM-1	1-5-21 ~ 10:28AM	SW
RM-2	1-5-21 ~ 10:54AM	SW
RM-3	1-5-21 ~ 10:41AM	SW
CM-1 CM-1	1-5-21 ~ 11:25AM	SW
CM-2 CM-2	1-5-21 ~ 11:15AM	SW
CM-3 CM-3	1-5-21 ~ 11:35AM	SW

of Containers

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

REMARKS

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

RELINQUISHED BY:

DATE:TIME

RECEIVED BY:

DATE:TIME

PAUL WILKINSON

1-5-21 ~ 12:30

[Signature]

1-5-21