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

Analytical Report

April 20, 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:
ACZ Project ID: L65090

Jake Wilkinson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on April 05, 2021. This project has been assigned to ACZ's project number, L65090. 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 L65090. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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

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

All samples and sub-samples associated with this project will be disposed of after May 20, 2021. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

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

Max Janicek has reviewed and approved this report.

CRG Mining, LLC
Project ID:
Sample ID: GL1

ACZ Sample ID: ***L65090-01***
Date Sampled: *04/01/21 10:07*
Date Received: *04/05/21*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						04/07/21 13:30	bjp
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								04/06/21 12:18	mlh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	0.068	B		mg/L	0.05	0.25	04/08/21 13:36	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	04/09/21 10:30	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	<0.0002	U		mg/L	0.0002	0.001	04/09/21 10:30	bsu
Barium, dissolved	M200.7 ICP	1	0.0195	B		mg/L	0.007	0.035	04/08/21 13:36	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	04/09/21 10:30	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	<0.00005	U		mg/L	0.00005	0.00025	04/09/21 10:30	bsu
Calcium, dissolved	M200.7 ICP	1	14.7			mg/L	0.1	0.5	04/08/21 13:36	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	04/09/21 10:30	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	04/08/21 13:36	kja
Copper, dissolved	M200.7 ICP	1	0.060			mg/L	0.01	0.05	04/08/21 13:36	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	04/08/21 13:36	kja
Lead, dissolved	M200.8 ICP-MS	1	0.00014	B		mg/L	0.0001	0.0005	04/09/21 10:30	bsu
Magnesium, dissolved	M200.7 ICP	1	5.17			mg/L	0.2	1	04/08/21 13:36	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	04/08/21 13:36	kja
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	04/07/21 13:21	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	04/08/21 13:36	kja
Potassium, dissolved	M200.7 ICP	1	0.52	B		mg/L	0.2	1	04/08/21 13:36	kja
Sodium, dissolved	M200.7 ICP	1	2.17			mg/L	0.2	1	04/08/21 13:36	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	04/09/21 11:55	kja
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	04/08/21 13:36	kja

CRG Mining, LLC
Project ID:
Sample ID: GL1

ACZ Sample ID: ***L65090-01***
Date Sampled: *04/01/21 10:07*
Date Received: *04/05/21*
Sample Matrix: *Surface Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	66.5		*	mg/L	2	20	04/07/21 0:00	eep
Carbonate as CaCO3		1	<2	U	*	mg/L	2	20	04/07/21 0:00	eep
Hydroxide as CaCO3		1	<2	U	*	mg/L	2	20	04/07/21 0:00	eep
Total Alkalinity		1	66.5		*	mg/L	2	20	04/07/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-7.1			%			04/20/21 0:00	calc
Sum of Anions			1.5			meq/L			04/20/21 0:00	calc
Sum of Cations			1.3			meq/L			04/20/21 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	04/19/21 11:07	syw
Conductivity @25C	SM2510B	1	136		*	umhos/cm	1	10	04/07/21 5:59	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	04/09/21 14:15	bjp
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		58.0			mg/L	0.2	5	04/20/21 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							04/10/21 11:43	eep
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		0.13	H		mg/L	0.02	0.1	04/20/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.126	H	*	mg/L	0.02	0.1	04/08/21 2:22	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	04/08/21 2:22	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H	*	units	0.1	0.1	04/07/21 0:00	eep
pH measured at		1	21.8		*	C	0.1	0.1	04/07/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	64		*	mg/L	20	40	04/06/21 17:20	jck
Sulfate	D516-02/-07/-11 - Turbidimetric	1	8.7		*	mg/L	1	5	04/17/21 12:49	wtc

CRG Mining, LLC
Project ID:
Sample ID: GL2

ACZ Sample ID: ***L65090-02***
Date Sampled: *04/01/21 10:15*
Date Received: *04/05/21*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						04/07/21 13:44	bjp
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								04/06/21 12:20	mlh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	04/08/21 13:39	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	04/09/21 10:32	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00350			mg/L	0.0002	0.001	04/09/21 10:32	bsu
Barium, dissolved	M200.7 ICP	1	0.0179	B		mg/L	0.007	0.035	04/08/21 13:39	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	04/09/21 10:32	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.00234			mg/L	0.00005	0.00025	04/09/21 10:32	bsu
Calcium, dissolved	M200.7 ICP	1	23.5			mg/L	0.1	0.5	04/08/21 13:39	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	04/09/21 10:32	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	04/08/21 13:39	kja
Copper, dissolved	M200.7 ICP	1	0.011	B		mg/L	0.01	0.05	04/08/21 13:39	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	04/08/21 13:39	kja
Lead, dissolved	M200.8 ICP-MS	1	0.00025	B		mg/L	0.0001	0.0005	04/09/21 10:32	bsu
Magnesium, dissolved	M200.7 ICP	1	7.10			mg/L	0.2	1	04/08/21 13:39	kja
Manganese, dissolved	M200.7 ICP	1	0.030	B		mg/L	0.01	0.05	04/08/21 13:39	kja
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	04/07/21 13:22	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	04/08/21 13:39	kja
Potassium, dissolved	M200.7 ICP	1	0.69	B		mg/L	0.2	1	04/08/21 13:39	kja
Sodium, dissolved	M200.7 ICP	1	4.14			mg/L	0.2	1	04/08/21 13:39	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	04/09/21 11:58	kja
Zinc, dissolved	M200.7 ICP	1	0.210			mg/L	0.02	0.05	04/08/21 13:39	kja

CRG Mining, LLC
Project ID:
Sample ID: GL2

ACZ Sample ID: ***L65090-02***
Date Sampled: *04/01/21 10:15*
Date Received: *04/05/21*
Sample Matrix: *Surface Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	79.8		*	mg/L	2	20	04/07/21 0:00	eep
Carbonate as CaCO3		1	<2	U	*	mg/L	2	20	04/07/21 0:00	eep
Hydroxide as CaCO3		1	<2	U	*	mg/L	2	20	04/07/21 0:00	eep
Total Alkalinity		1	79.8		*	mg/L	2	20	04/07/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-7.0			%			04/20/21 0:00	calc
Sum of Anions			2.3			meq/L			04/20/21 0:00	calc
Sum of Cations			2			meq/L			04/20/21 0:00	calc
Chloride	SM4500Cl-E	1	0.91	B	*	mg/L	0.5	2	04/19/21 11:09	syw
Conductivity @25C	SM2510B	1	200		*	umhos/cm	1	10	04/07/21 6:15	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	04/09/21 14:15	bjp
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		88			mg/L	0.2	5	04/20/21 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							04/10/21 11:49	eep
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		0.08	BH		mg/L	0.02	0.1	04/20/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.082	BH	*	mg/L	0.02	0.1	04/08/21 2:25	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	04/08/21 2:25	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H	*	units	0.1	0.1	04/07/21 0:00	eep
pH measured at		1	21.9		*	C	0.1	0.1	04/07/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	114		*	mg/L	20	40	04/06/21 17:23	jck
Sulfate	D516-02/-07/-11 - Turbidimetric	1	31.5		*	mg/L	1	5	04/17/21 12:49	wtc

CRG Mining, LLC
Project ID:
Sample ID: GL3

ACZ Sample ID: ***L65090-03***
Date Sampled: *04/01/21 10:32*
Date Received: *04/05/21*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						04/07/21 13:57	bjp
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								04/06/21 12:58	mlh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	04/08/21 13:42	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	04/09/21 10:34	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00026	B		mg/L	0.0002	0.001	04/09/21 10:34	bsu
Barium, dissolved	M200.7 ICP	1	0.0192	B		mg/L	0.007	0.035	04/08/21 13:42	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	04/09/21 10:34	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.000212	B		mg/L	0.00005	0.00025	04/09/21 10:34	bsu
Calcium, dissolved	M200.7 ICP	1	15.6			mg/L	0.1	0.5	04/08/21 13:42	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	04/09/21 10:34	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	04/08/21 13:42	kja
Copper, dissolved	M200.7 ICP	1	0.012	B		mg/L	0.01	0.05	04/08/21 13:42	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	04/08/21 13:42	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	04/09/21 10:34	bsu
Magnesium, dissolved	M200.7 ICP	1	5.41			mg/L	0.2	1	04/08/21 13:42	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	04/08/21 13:42	kja
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	04/07/21 13:23	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	04/08/21 13:42	kja
Potassium, dissolved	M200.7 ICP	1	0.56	B		mg/L	0.2	1	04/08/21 13:42	kja
Sodium, dissolved	M200.7 ICP	1	2.34			mg/L	0.2	1	04/08/21 13:42	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	04/09/21 12:02	kja
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	04/08/21 13:42	kja

CRG Mining, LLC
Project ID:
Sample ID: GL3

ACZ Sample ID: ***L65090-03***
Date Sampled: *04/01/21 10:32*
Date Received: *04/05/21*
Sample Matrix: *Surface Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	70.3		*	mg/L	2	20	04/07/21 0:00	eep
Carbonate as CaCO3		1	<2	U	*	mg/L	2	20	04/07/21 0:00	eep
Hydroxide as CaCO3		1	<2	U	*	mg/L	2	20	04/07/21 0:00	eep
Total Alkalinity		1	70.3		*	mg/L	2	20	04/07/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-10.3			%			04/20/21 0:00	calc
Sum of Anions			1.6			meq/L			04/20/21 0:00	calc
Sum of Cations			1.3			meq/L			04/20/21 0:00	calc
Chloride	SM4500Cl-E	1	0.81	B	*	mg/L	0.5	2	04/19/21 11:09	syw
Conductivity @25C	SM2510B	1	139		*	umhos/cm	1	10	04/07/21 6:24	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	04/09/21 14:16	bjp
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		61			mg/L	0.2	5	04/20/21 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							04/10/21 11:55	eep
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		0.12	H		mg/L	0.02	0.1	04/20/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.116	H	*	mg/L	0.02	0.1	04/08/21 2:27	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	04/08/21 2:27	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H	*	units	0.1	0.1	04/07/21 0:00	eep
pH measured at		1	22.1		*	C	0.1	0.1	04/07/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	74		*	mg/L	20	40	04/06/21 17:25	jck
Sulfate	D516-02/-07/-11 - Turbidimetric	1	9.0		*	mg/L	1	5	04/17/21 12:49	wtc

CRG Mining, LLC
Project ID:
Sample ID: RM1

ACZ Sample ID: ***L65090-04***
Date Sampled: *04/01/21 10:45*
Date Received: *04/05/21*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						04/07/21 14:11	bjp
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								04/06/21 12:58	mlh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	04/08/21 13:45	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	04/09/21 10:36	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00040	B		mg/L	0.0002	0.001	04/09/21 10:36	bsu
Barium, dissolved	M200.7 ICP	1	0.0214	B		mg/L	0.007	0.035	04/08/21 13:45	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	04/09/21 10:36	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.000229	B		mg/L	0.00005	0.00025	04/09/21 10:36	bsu
Calcium, dissolved	M200.7 ICP	1	18.6			mg/L	0.1	0.5	04/08/21 13:45	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	04/09/21 10:36	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	04/08/21 13:45	kja
Copper, dissolved	M200.7 ICP	1	0.015	B		mg/L	0.01	0.05	04/08/21 13:45	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	04/08/21 13:45	kja
Lead, dissolved	M200.8 ICP-MS	1	0.00015	B		mg/L	0.0001	0.0005	04/09/21 10:36	bsu
Magnesium, dissolved	M200.7 ICP	1	5.85			mg/L	0.2	1	04/08/21 13:45	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	04/08/21 13:45	kja
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	04/07/21 13:24	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	04/08/21 13:45	kja
Potassium, dissolved	M200.7 ICP	1	0.63	B		mg/L	0.2	1	04/08/21 13:45	kja
Sodium, dissolved	M200.7 ICP	1	2.45			mg/L	0.2	1	04/08/21 13:45	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	04/09/21 12:05	kja
Zinc, dissolved	M200.7 ICP	1	0.151			mg/L	0.02	0.05	04/08/21 13:45	kja

CRG Mining, LLC
Project ID:
Sample ID: RM1

ACZ Sample ID: ***L65090-04***
Date Sampled: *04/01/21 10:45*
Date Received: *04/05/21*
Sample Matrix: *Surface Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	76.0		*	mg/L	2	20	04/07/21 0:00	eep
Carbonate as CaCO3		1	<2	U	*	mg/L	2	20	04/07/21 0:00	eep
Hydroxide as CaCO3		1	<2	U	*	mg/L	2	20	04/07/21 0:00	eep
Total Alkalinity		1	76.0		*	mg/L	2	20	04/07/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-9.1			%			04/20/21 0:00	calc
Sum of Anions			1.8			meq/L			04/20/21 0:00	calc
Sum of Cations			1.5			meq/L			04/20/21 0:00	calc
Chloride	SM4500Cl-E	1	0.83	B	*	mg/L	0.5	2	04/19/21 11:09	syw
Conductivity @25C	SM2510B	1	155		*	umhos/cm	1	10	04/07/21 6:33	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	04/09/21 14:17	bjp
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		71			mg/L	0.2	5	04/20/21 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							04/10/21 12:01	eep
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		0.11	H		mg/L	0.02	0.1	04/20/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.108	H	*	mg/L	0.02	0.1	04/08/21 2:29	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	04/08/21 2:29	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H	*	units	0.1	0.1	04/07/21 0:00	eep
pH measured at		1	22.2		*	C	0.1	0.1	04/07/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	84		*	mg/L	20	40	04/06/21 17:28	jck
Sulfate	D516-02/-07/-11 - Turbidimetric	1	10.0		*	mg/L	1	5	04/17/21 12:49	wtc

CRG Mining, LLC
Project ID:
Sample ID: RM2

ACZ Sample ID: ***L65090-05***
Date Sampled: *04/01/21 10:55*
Date Received: *04/05/21*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						04/07/21 14:24	bjp
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								04/06/21 12:58	mlh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	04/08/21 13:54	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	04/09/21 10:45	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00860			mg/L	0.0002	0.001	04/09/21 10:45	bsu
Barium, dissolved	M200.7 ICP	1	0.0100	B		mg/L	0.007	0.035	04/08/21 13:54	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	04/09/21 10:45	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.000471			mg/L	0.00005	0.00025	04/09/21 10:45	bsu
Calcium, dissolved	M200.7 ICP	1	13.9			mg/L	0.1	0.5	04/08/21 13:54	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	04/09/21 10:45	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	04/08/21 13:54	kja
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	04/08/21 13:54	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	04/08/21 13:54	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	04/09/21 10:45	bsu
Magnesium, dissolved	M200.7 ICP	1	3.08			mg/L	0.2	1	04/08/21 13:54	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	04/08/21 13:54	kja
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	04/07/21 13:24	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	04/08/21 13:54	kja
Potassium, dissolved	M200.7 ICP	1	0.99	B		mg/L	0.2	1	04/08/21 13:54	kja
Sodium, dissolved	M200.7 ICP	1	4.01			mg/L	0.2	1	04/08/21 13:54	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	04/09/21 12:15	kja
Zinc, dissolved	M200.7 ICP	1	0.048	B		mg/L	0.02	0.05	04/08/21 13:54	kja

CRG Mining, LLC
Project ID:
Sample ID: RM2

ACZ Sample ID: ***L65090-05***
Date Sampled: *04/01/21 10:55*
Date Received: *04/05/21*
Sample Matrix: *Surface Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	47.2		*	mg/L	2	20	04/07/21 0:00	eep
Carbonate as CaCO3		1	<2	U	*	mg/L	2	20	04/07/21 0:00	eep
Hydroxide as CaCO3		1	<2	U	*	mg/L	2	20	04/07/21 0:00	eep
Total Alkalinity		1	47.2		*	mg/L	2	20	04/07/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-7.7			%			04/20/21 0:00	calc
Sum of Anions			1.4			meq/L			04/20/21 0:00	calc
Sum of Cations			1.2			meq/L			04/20/21 0:00	calc
Chloride	SM4500Cl-E	1	0.78	B	*	mg/L	0.5	2	04/19/21 11:09	syw
Conductivity @25C	SM2510B	1	125		*	umhos/cm	1	10	04/07/21 6:41	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	04/09/21 14:18	bjp
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		47			mg/L	0.2	5	04/20/21 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							04/10/21 12:07	eep
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		0.03	BH		mg/L	0.02	0.1	04/20/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.033	BH	*	mg/L	0.02	0.1	04/08/21 2:30	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	04/08/21 2:30	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H	*	units	0.1	0.1	04/07/21 0:00	eep
pH measured at		1	22.3		*	C	0.1	0.1	04/07/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	70		*	mg/L	20	40	04/06/21 17:31	jck
Sulfate	D516-02/-07/-11 - Turbidimetric	1	18.8		*	mg/L	1	5	04/17/21 12:49	wtc

CRG Mining, LLC
Project ID:
Sample ID: RM3

ACZ Sample ID: ***L65090-06***
Date Sampled: *04/01/21 11:25*
Date Received: *04/05/21*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						04/07/21 14:38	bjp
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								04/06/21 12:58	mlh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	04/08/21 14:03	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	04/09/21 10:47	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00121			mg/L	0.0002	0.001	04/09/21 10:47	bsu
Barium, dissolved	M200.7 ICP	1	0.0189	B		mg/L	0.007	0.035	04/08/21 14:03	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	04/09/21 10:47	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.000198	B		mg/L	0.00005	0.00025	04/09/21 10:47	bsu
Calcium, dissolved	M200.7 ICP	1	18.2			mg/L	0.1	0.5	04/08/21 14:03	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	04/09/21 10:47	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	04/08/21 14:03	kja
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	04/08/21 14:03	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	04/08/21 14:03	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	04/09/21 10:47	bsu
Magnesium, dissolved	M200.7 ICP	1	5.81			mg/L	0.2	1	04/08/21 14:03	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	04/08/21 14:03	kja
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	04/07/21 13:25	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	04/08/21 14:03	kja
Potassium, dissolved	M200.7 ICP	1	0.65	B		mg/L	0.2	1	04/08/21 14:03	kja
Sodium, dissolved	M200.7 ICP	1	2.36			mg/L	0.2	1	04/08/21 14:03	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	04/09/21 12:24	kja
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	04/08/21 14:03	kja

CRG Mining, LLC
Project ID:
Sample ID: RM3

ACZ Sample ID: ***L65090-06***
Date Sampled: *04/01/21 11:25*
Date Received: *04/05/21*
Sample Matrix: *Surface Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	74.7		*	mg/L	2	20	04/07/21 0:00	eep
Carbonate as CaCO3		1	<2	U	*	mg/L	2	20	04/07/21 0:00	eep
Hydroxide as CaCO3		1	<2	U	*	mg/L	2	20	04/07/21 0:00	eep
Total Alkalinity		1	74.7		*	mg/L	2	20	04/07/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-6.3			%			04/20/21 0:00	calc
Sum of Anions			1.7			meq/L			04/20/21 0:00	calc
Sum of Cations			1.5			meq/L			04/20/21 0:00	calc
Chloride	SM4500Cl-E	1	0.80	B	*	mg/L	0.5	2	04/19/21 11:09	syw
Conductivity @25C	SM2510B	1	155		*	umhos/cm	1	10	04/07/21 6:50	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	04/09/21 14:19	bjp
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		69			mg/L	0.2	5	04/20/21 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							04/10/21 12:13	eep
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		0.12	H		mg/L	0.02	0.1	04/20/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.118	H	*	mg/L	0.02	0.1	04/08/21 2:31	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	04/08/21 2:31	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H	*	units	0.1	0.1	04/07/21 0:00	eep
pH measured at		1	22.3		*	C	0.1	0.1	04/07/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	84		*	mg/L	20	40	04/06/21 17:33	jck
Sulfate	D516-02/-07/-11 - Turbidimetric	1	9.8		*	mg/L	1	5	04/17/21 12:50	wtc

CRG Mining, LLC
Project ID:
Sample ID: CM1

ACZ Sample ID: ***L65090-07***
Date Sampled: *04/01/21 11:40*
Date Received: *04/05/21*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						04/07/21 14:52	bjp
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								04/06/21 13:00	mlh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	04/08/21 14:06	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	04/09/21 10:48	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00206			mg/L	0.0002	0.001	04/09/21 10:48	bsu
Barium, dissolved	M200.7 ICP	1	0.0184	B		mg/L	0.007	0.035	04/08/21 14:06	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	04/09/21 10:48	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.000194	B		mg/L	0.00005	0.00025	04/09/21 10:48	bsu
Calcium, dissolved	M200.7 ICP	1	16.9			mg/L	0.1	0.5	04/08/21 14:06	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	04/09/21 10:48	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	04/08/21 14:06	kja
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	04/08/21 14:06	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	04/08/21 14:06	kja
Lead, dissolved	M200.8 ICP-MS	1	0.00046	B		mg/L	0.0001	0.0005	04/09/21 10:48	bsu
Magnesium, dissolved	M200.7 ICP	1	5.39			mg/L	0.2	1	04/08/21 14:06	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	04/08/21 14:06	kja
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	04/07/21 13:26	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	04/08/21 14:06	kja
Potassium, dissolved	M200.7 ICP	1	0.63	B		mg/L	0.2	1	04/08/21 14:06	kja
Sodium, dissolved	M200.7 ICP	1	2.55			mg/L	0.2	1	04/08/21 14:06	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	04/09/21 12:28	kja
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	04/08/21 14:06	kja

CRG Mining, LLC
Project ID:
Sample ID: CM1

ACZ Sample ID: ***L65090-07***
Date Sampled: *04/01/21 11:40*
Date Received: *04/05/21*
Sample Matrix: *Surface Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	69.2		*	mg/L	2	20	04/07/21 0:00	eep
Carbonate as CaCO3		1	<2	U	*	mg/L	2	20	04/07/21 0:00	eep
Hydroxide as CaCO3		1	<2	U	*	mg/L	2	20	04/07/21 0:00	eep
Total Alkalinity		1	69.2		*	mg/L	2	20	04/07/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-6.7			%			04/20/21 0:00	calc
Sum of Anions			1.6			meq/L			04/20/21 0:00	calc
Sum of Cations			1.4			meq/L			04/20/21 0:00	calc
Chloride	SM4500Cl-E	1	0.83	B	*	mg/L	0.5	2	04/19/21 11:09	syw
Conductivity @25C	SM2510B	1	146		*	umhos/cm	1	10	04/07/21 6:59	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	04/09/21 14:20	bjp
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		64			mg/L	0.2	5	04/20/21 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							04/10/21 12:19	eep
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		0.09	BH		mg/L	0.02	0.1	04/20/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.089	BH	*	mg/L	0.02	0.1	04/08/21 2:37	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	04/08/21 2:37	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H	*	units	0.1	0.1	04/07/21 0:00	eep
pH measured at		1	22.2		*	C	0.1	0.1	04/07/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	78		*	mg/L	20	40	04/06/21 17:36	jck
Sulfate	D516-02/-07/-11 - Turbidimetric	1	9.7		*	mg/L	1	5	04/17/21 12:50	wtc

CRG Mining, LLC
Project ID:
Sample ID: CM2

ACZ Sample ID: ***L65090-08***
Date Sampled: *04/01/21 11:45*
Date Received: *04/05/21*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						04/07/21 15:05	bjp
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								04/06/21 13:00	mlh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	04/08/21 14:09	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	04/09/21 10:50	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00217			mg/L	0.0002	0.001	04/09/21 10:50	bsu
Barium, dissolved	M200.7 ICP	1	0.0166	B		mg/L	0.007	0.035	04/08/21 14:09	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	04/09/21 10:50	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.000050	B		mg/L	0.00005	0.00025	04/09/21 10:50	bsu
Calcium, dissolved	M200.7 ICP	1	15.7			mg/L	0.1	0.5	04/08/21 14:09	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	04/09/21 10:50	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	04/08/21 14:09	kja
Copper, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	04/08/21 14:09	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	04/08/21 14:09	kja
Lead, dissolved	M200.8 ICP-MS	1	<0.0001	U		mg/L	0.0001	0.0005	04/09/21 10:50	bsu
Magnesium, dissolved	M200.7 ICP	1	2.97			mg/L	0.2	1	04/08/21 14:09	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	04/08/21 14:09	kja
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	04/07/21 13:31	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	04/08/21 14:09	kja
Potassium, dissolved	M200.7 ICP	1	0.42	B		mg/L	0.2	1	04/08/21 14:09	kja
Sodium, dissolved	M200.7 ICP	1	5.57			mg/L	0.2	1	04/08/21 14:09	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	04/09/21 12:31	kja
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	04/08/21 14:09	kja

CRG Mining, LLC
Project ID:
Sample ID: CM2

ACZ Sample ID: ***L65090-08***
Date Sampled: *04/01/21 11:45*
Date Received: *04/05/21*
Sample Matrix: *Surface Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	57.5		*	mg/L	2	20	04/07/21 0:00	eep
Carbonate as CaCO3		1	<2	U	*	mg/L	2	20	04/07/21 0:00	eep
Hydroxide as CaCO3		1	<2	U	*	mg/L	2	20	04/07/21 0:00	eep
Total Alkalinity		1	57.5		*	mg/L	2	20	04/07/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-3.7			%			04/20/21 0:00	calc
Sum of Anions			1.4			meq/L			04/20/21 0:00	calc
Sum of Cations			1.3			meq/L			04/20/21 0:00	calc
Chloride	SM4500Cl-E	1	0.79	B	*	mg/L	0.5	2	04/19/21 11:09	syw
Conductivity @25C	SM2510B	1	142		*	umhos/cm	1	10	04/07/21 7:07	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	04/09/21 14:20	bjp
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		51			mg/L	0.2	5	04/20/21 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							04/10/21 12:24	eep
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		0.03	BH		mg/L	0.02	0.1	04/20/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.031	BH	*	mg/L	0.02	0.1	04/08/21 2:38	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	04/08/21 2:38	pjb
pH (lab)	SM4500H+ B									
pH		1	8.1	H	*	units	0.1	0.1	04/07/21 0:00	eep
pH measured at		1	22.1		*	C	0.1	0.1	04/07/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	86		*	mg/L	20	40	04/06/21 17:41	jck
Sulfate	D516-02/-07/-11 - Turbidimetric	1	12.8		*	mg/L	1	5	04/17/21 12:51	wtc

CRG Mining, LLC
Project ID:
Sample ID: CM3

ACZ Sample ID: ***L65090-09***
Date Sampled: *04/01/21 11:58*
Date Received: *04/05/21*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation		-						04/07/21 15:19	bjp
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A								04/06/21 13:00	mlh

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1	<0.05	U		mg/L	0.05	0.25	04/08/21 14:13	kja
Antimony, dissolved	M200.8 ICP-MS	1	<0.0004	U		mg/L	0.0004	0.002	04/09/21 10:52	bsu
Arsenic, dissolved	M200.8 ICP-MS	1	0.00207			mg/L	0.0002	0.001	04/09/21 10:52	bsu
Barium, dissolved	M200.7 ICP	1	0.0179	B		mg/L	0.007	0.035	04/08/21 14:13	kja
Beryllium, dissolved	M200.8 ICP-MS	1	<0.00008	U		mg/L	0.00008	0.00025	04/09/21 10:52	bsu
Cadmium, dissolved	M200.8 ICP-MS	1	0.000161	B		mg/L	0.00005	0.00025	04/09/21 10:52	bsu
Calcium, dissolved	M200.7 ICP	1	16.1			mg/L	0.1	0.5	04/08/21 14:13	kja
Chromium, dissolved	M200.8 ICP-MS	1	<0.0005	U		mg/L	0.0005	0.002	04/09/21 10:52	bsu
Cobalt, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	04/08/21 14:13	kja
Copper, dissolved	M200.7 ICP	1	0.026	B		mg/L	0.01	0.05	04/08/21 14:13	kja
Iron, dissolved	M200.7 ICP	1	<0.06	U		mg/L	0.06	0.15	04/08/21 14:13	kja
Lead, dissolved	M200.8 ICP-MS	1	0.00039	B		mg/L	0.0001	0.0005	04/09/21 10:52	bsu
Magnesium, dissolved	M200.7 ICP	1	4.93			mg/L	0.2	1	04/08/21 14:13	kja
Manganese, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.05	04/08/21 14:13	kja
Mercury, total	M245.1 CVAA	1	<0.0002	U		mg/L	0.0002	0.001	04/07/21 13:32	mlh
Nickel, dissolved	M200.7 ICP	1	<0.008	U		mg/L	0.008	0.04	04/08/21 14:13	kja
Potassium, dissolved	M200.7 ICP	1	0.60	B		mg/L	0.2	1	04/08/21 14:13	kja
Sodium, dissolved	M200.7 ICP	1	2.55			mg/L	0.2	1	04/08/21 14:13	kja
Vanadium, dissolved	M200.7 ICP	1	<0.01	U		mg/L	0.01	0.025	04/09/21 12:34	kja
Zinc, dissolved	M200.7 ICP	1	<0.02	U		mg/L	0.02	0.05	04/08/21 14:13	kja

CRG Mining, LLC
Project ID:
Sample ID: CM3

ACZ Sample ID: ***L65090-09***
Date Sampled: *04/01/21 11:58*
Date Received: *04/05/21*
Sample Matrix: *Surface Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	69.7		*	mg/L	2	20	04/07/21 0:00	eep
Carbonate as CaCO3		1	<2	U	*	mg/L	2	20	04/07/21 0:00	eep
Hydroxide as CaCO3		1	<2	U	*	mg/L	2	20	04/07/21 0:00	eep
Total Alkalinity		1	69.7		*	mg/L	2	20	04/07/21 0:00	eep
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-10.3			%			04/20/21 0:00	calc
Sum of Anions			1.6			meq/L			04/20/21 0:00	calc
Sum of Cations			1.3			meq/L			04/20/21 0:00	calc
Chloride	SM4500Cl-E	1	<0.5	U	*	mg/L	0.5	2	04/19/21 11:14	syw
Conductivity @25C	SM2510B	1	146		*	umhos/cm	1	10	04/07/21 7:15	eep
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	<0.003	U	*	mg/L	0.003	0.01	04/09/21 14:21	bjp
Hardness as CaCO3 (dissolved)	SM2340B - Calculation		61			mg/L	0.2	5	04/20/21 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							04/10/21 12:30	eep
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		0.07	BH		mg/L	0.02	0.1	04/20/21 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	0.073	BH	*	mg/L	0.02	0.1	04/08/21 2:39	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1	<0.01	UH	*	mg/L	0.01	0.05	04/08/21 2:39	pjb
pH (lab)	SM4500H+ B									
pH		1	8.2	H	*	units	0.1	0.1	04/07/21 0:00	eep
pH measured at		1	22.1		*	C	0.1	0.1	04/07/21 0:00	eep
Residue, Filterable (TDS) @180C	SM2540C	1	76		*	mg/L	20	40	04/06/21 17:44	jck
Sulfate	D516-02/-07/-11 - Turbidimetric	1	9.8		*	mg/L	1	5	04/17/21 12:51	wtc

Report Header Explanations

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

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

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

Method References

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

Comments

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

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

REP001.03.15.02

CRG Mining, LLC

ACZ Project ID: ***L65090***

NOTE: If the Rec% column is null, the high/low 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
WG517017													
WG517017PBW1	PBW	04/06/21 17:53				5.9	mg/L		-20	20			
WG517017LCSW3	LCSW	04/06/21 18:13	WC210403-1	820.0001		855.4	mg/L	104	90	110			
WG517017LCSW6	LCSW	04/06/21 21:00	WC210403-1	820.0001		857.5	mg/L	105	90	110			
WG517017PBW2	PBW	04/06/21 21:07				4.9	mg/L		-20	20			
WG517017LCSW9	LCSW	04/07/21 0:38	WC210403-1	820.0001		850.3	mg/L	104	90	110			
WG517017PBW3	PBW	04/07/21 0:45				3.7	mg/L		-20	20			
WG517017LCSW12	LCSW	04/07/21 4:18	WC210403-1	820.0001		866.7	mg/L	106	90	110			
WG517017PBW4	PBW	04/07/21 4:25				4.3	mg/L		-20	20			
L65090-01DUP	DUP	04/07/21 6:06			66.5	69.6	mg/L				5	20	
L65092-02DUP	DUP	04/07/21 7:48			500	500.9	mg/L				0	20	
WG517017LCSW15	LCSW	04/07/21 8:08	WC210403-1	820.0001		873.5	mg/L	107	90	110			

Aluminum, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517124													
WG517124ICV	ICV	04/08/21 13:08	II210406-1	2		1.941	mg/L	97	95	105			
WG517124ICB	ICB	04/08/21 13:14				U	mg/L		-0.15	0.15			
WG517124LFB	LFB	04/08/21 13:27	II210401-2	1.0013		.948	mg/L	95	85	115			
L65090-04AS	AS	04/08/21 13:48	II210401-2	1.0013	U	.934	mg/L	93	85	115			
L65090-04ASD	ASD	04/08/21 13:51	II210401-2	1.0013	U	.957	mg/L	96	85	115	2	20	
L65099-02AS	AS	04/08/21 14:40	II210401-2	1.0013	.074	.973	mg/L	90	85	115			
L65099-02ASD	ASD	04/08/21 14:43	II210401-2	1.0013	.074	.974	mg/L	90	85	115	0	20	

Antimony, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517169													
WG517169ICV	ICV	04/09/21 9:57	MS210330-3	.0201		.02004	mg/L	100	90	110			
WG517169ICB	ICB	04/09/21 9:59				U	mg/L		-0.00088	0.00088			
WG517169LFB	LFB	04/09/21 10:01	MS210312-6	.01		.0098	mg/L	98	85	115			
L65090-04AS	AS	04/09/21 10:41	MS210312-6	.01	U	.01052	mg/L	105	70	130			
L65090-04ASD	ASD	04/09/21 10:43	MS210312-6	.01	U	.0105	mg/L	105	70	130	0	20	

Arsenic, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517169													
WG517169ICV	ICV	04/09/21 9:57	MS210330-3	.05		.05114	mg/L	102	90	110			
WG517169ICB	ICB	04/09/21 9:59				U	mg/L		-0.00044	0.00044			
WG517169LFB	LFB	04/09/21 10:01	MS210312-6	.05005		.05642	mg/L	113	85	115			
L65090-04AS	AS	04/09/21 10:41	MS210312-6	.05005	.0004	.05744	mg/L	114	70	130			
L65090-04ASD	ASD	04/09/21 10:43	MS210312-6	.05005	.0004	.05771	mg/L	115	70	130	0	20	

CRG Mining, LLC

ACZ Project ID: ***L65090***

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

Barium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517124													
WG517124ICV	ICV	04/08/21 13:08	II210406-1	2		1.94	mg/L	97	95	105			
WG517124ICB	ICB	04/08/21 13:14				.0112	mg/L		-0.021	0.021			
WG517124LFB	LFB	04/08/21 13:27	II210401-2	.5		.4728	mg/L	95	85	115			
L65090-04AS	AS	04/08/21 13:48	II210401-2	.5	.0214	.4837	mg/L	92	85	115			
L65090-04ASD	ASD	04/08/21 13:51	II210401-2	.5	.0214	.4884	mg/L	93	85	115	1	20	
L65099-02AS	AS	04/08/21 14:40	II210401-2	.5	.0275	.4898	mg/L	92	85	115			
L65099-02ASD	ASD	04/08/21 14:43	II210401-2	.5	.0275	.4979	mg/L	94	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
WG517169													
WG517169ICV	ICV	04/09/21 9:57	MS210330-3	.05		.048706	mg/L	97	90	110			
WG517169ICB	ICB	04/09/21 9:59				U	mg/L		-0.000176	0.000176			
WG517169LFB	LFB	04/09/21 10:01	MS210312-6	.05005		.051369	mg/L	103	85	115			
L65090-04AS	AS	04/09/21 10:41	MS210312-6	.05005	U	.058351	mg/L	117	70	130			
L65090-04ASD	ASD	04/09/21 10:43	MS210312-6	.05005	U	.058117	mg/L	116	70	130	0	20	

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517169													
WG517169ICV	ICV	04/09/21 9:57	MS210330-3	.05		.052743	mg/L	105	90	110			
WG517169ICB	ICB	04/09/21 9:59				U	mg/L		-0.00011	0.00011			
WG517169LFB	LFB	04/09/21 10:01	MS210312-6	.05005		.053897	mg/L	108	85	115			
L65090-04AS	AS	04/09/21 10:41	MS210312-6	.05005	.000229	.057394	mg/L	114	70	130			
L65090-04ASD	ASD	04/09/21 10:43	MS210312-6	.05005	.000229	.057744	mg/L	115	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
WG517124													
WG517124ICV	ICV	04/08/21 13:08	II210406-1	100		99.18	mg/L	99	95	105			
WG517124ICB	ICB	04/08/21 13:14				.13	mg/L		-0.3	0.3			
WG517124LFB	LFB	04/08/21 13:27	II210401-2	68.00934		65.9	mg/L	97	85	115			
L65090-04AS	AS	04/08/21 13:48	II210401-2	68.00934	18.6	82.78	mg/L	94	85	115			
L65090-04ASD	ASD	04/08/21 13:51	II210401-2	68.00934	18.6	84.15	mg/L	96	85	115	2	20	
L65099-02AS	AS	04/08/21 14:40	II210401-2	68.00934	15.2	78.75	mg/L	93	85	115			
L65099-02ASD	ASD	04/08/21 14:43	II210401-2	68.00934	15.2	79.06	mg/L	94	85	115	0	20	

Chloride SM4500Cl-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517691													
WG517691ICB	ICB	04/19/21 10:11				U	mg/L		-1.5	1.5			
WG517691ICV	ICV	04/19/21 10:11	WI210325-1	55.055		55.16	mg/L	100	90	110			
WG517691LFB1	LFB	04/19/21 11:05	WI200327-3	30.03		30.98	mg/L	103	90	110			
L65059-01AS	AS	04/19/21 11:07	WI200327-3	30.03	50	78.51	mg/L	95	90	110			
L65059-02DUP	DUP	04/19/21 11:07			76.8	76.1	mg/L				1	20	
WG517691LFB2	LFB	04/19/21 11:09	WI200327-3	30.03		30.39	mg/L	101	90	110			
L65124-02AS	AS	04/19/21 11:14	WI200327-3	30.03	52.8	80.48	mg/L	92	90	110			
L65124-03DUP	DUP	04/19/21 11:14			78.7	78.4	mg/L				0	20	

CRG Mining, LLC

ACZ Project ID: ***L65090***

NOTE: If the Rec% column is null, the high/low 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
WG517169													
WG517169ICV	ICV	04/09/21 9:57	MS210330-3	.05		.05185	mg/L	104	90	110			
WG517169ICB	ICB	04/09/21 9:59				U	mg/L		-0.0011	0.0011			
WG517169LFB	LFB	04/09/21 10:01	MS210312-6	.05		.05539	mg/L	111	85	115			
L65090-04AS	AS	04/09/21 10:41	MS210312-6	.05	U	.05502	mg/L	110	70	130			
L65090-04ASD	ASD	04/09/21 10:43	MS210312-6	.05	U	.05484	mg/L	110	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
WG517124													
WG517124ICV	ICV	04/08/21 13:08	II210406-1	2.004		1.986	mg/L	99	95	105			
WG517124ICB	ICB	04/08/21 13:14				U	mg/L		-0.03	0.03			
WG517124LFB	LFB	04/08/21 13:27	II210401-2	.5005		.466	mg/L	93	85	115			
L65090-04AS	AS	04/08/21 13:48	II210401-2	.5005	U	.452	mg/L	90	85	115			
L65090-04ASD	ASD	04/08/21 13:51	II210401-2	.5005	U	.451	mg/L	90	85	115	0	20	
L65099-02AS	AS	04/08/21 14:40	II210401-2	.5005	U	.431	mg/L	86	85	115			
L65099-02ASD	ASD	04/08/21 14:43	II210401-2	.5005	U	.451	mg/L	90	85	115	5	20	

Conductivity @25C SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517017													
WG517017LCSW2	LCSW	04/06/21 17:59	PCN63122	1410		1417	umhos/cm	100	90	110			
WG517017LCSW5	LCSW	04/06/21 20:46	PCN63121	1410		1408	umhos/cm	100	90	110			
WG517017LCSW8	LCSW	04/07/21 0:26	PCN63121	1410		1408	umhos/cm	100	90	110			
WG517017LCSW11	LCSW	04/07/21 4:05	PCN63121	1410		1400	umhos/cm	99	90	110			
L65090-01DUP	DUP	04/07/21 6:06			136	128	umhos/cm				6	20	
L65092-02DUP	DUP	04/07/21 7:48			3210	3210	umhos/cm				0	20	
WG517017LCSW14	LCSW	04/07/21 7:55	PCN63121	1410		1391	umhos/cm	99	90	110			

Copper, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517124													
WG517124ICV	ICV	04/08/21 13:08	II210406-1	2		1.923	mg/L	96	95	105			
WG517124ICB	ICB	04/08/21 13:14				U	mg/L		-0.03	0.03			
WG517124LFB	LFB	04/08/21 13:27	II210401-2	.5015		.475	mg/L	95	85	115			
L65090-04AS	AS	04/08/21 13:48	II210401-2	.5015	.015	.473	mg/L	91	85	115			
L65090-04ASD	ASD	04/08/21 13:51	II210401-2	.5015	.015	.481	mg/L	93	85	115	2	20	
L65099-02AS	AS	04/08/21 14:40	II210401-2	.5015	U	.474	mg/L	95	85	115			
L65099-02ASD	ASD	04/08/21 14:43	II210401-2	.5015	U	.476	mg/L	95	85	115	0	20	

CRG Mining, LLC

ACZ Project ID: ***L65090***

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

Cyanide, total M335.4 - Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517234													
WG517234ICV	ICV	04/09/21 14:03	WI210331-5	.3		.2893	mg/L	96	90	110			
WG517234ICB	ICB	04/09/21 14:04				U	mg/L		-0.003	0.003			
WG517044LRB	LRB	04/09/21 14:04				U	mg/L		-0.003	0.003			
WG517044LFB	LFB	04/09/21 14:05	WI210331-2	.2		.1879	mg/L	94	90	110			
L65082-01DUP	DUP	04/09/21 14:08			U	U	mg/L				0	20	RA
L65082-03LFM	LFM	04/09/21 14:10	WI210331-2	.2	U	.182	mg/L	91	90	110			
L65090-09DUP	DUP	04/09/21 14:22			U	U	mg/L				0	20	RA
L65099-03LFM	LFM	04/09/21 14:45	WI210331-2	.2	U	.206	mg/L	103	90	110			

Iron, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517124													
WG517124ICV	ICV	04/08/21 13:08	II210406-1	2		1.942	mg/L	97	95	105			
WG517124ICB	ICB	04/08/21 13:14				U	mg/L		-0.18	0.18			
WG517124LFB	LFB	04/08/21 13:27	II210401-2	1.0018		.957	mg/L	96	85	115			
L65090-04AS	AS	04/08/21 13:48	II210401-2	1.0018	U	.964	mg/L	96	85	115			
L65090-04ASD	ASD	04/08/21 13:51	II210401-2	1.0018	U	.974	mg/L	97	85	115	1	20	
L65099-02AS	AS	04/08/21 14:40	II210401-2	1.0018	.104	1.018	mg/L	91	85	115			
L65099-02ASD	ASD	04/08/21 14:43	II210401-2	1.0018	.104	1.046	mg/L	94	85	115	3	20	

Lead, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517169													
WG517169ICV	ICV	04/09/21 9:57	MS210330-3	.05		.05096	mg/L	102	90	110			
WG517169ICB	ICB	04/09/21 9:59				U	mg/L		-0.00022	0.00022			
WG517169LFB	LFB	04/09/21 10:01	MS210312-6	.05005		.05295	mg/L	106	85	115			
L65090-04AS	AS	04/09/21 10:41	MS210312-6	.05005	.00015	.0562	mg/L	112	70	130			
L65090-04ASD	ASD	04/09/21 10:43	MS210312-6	.05005	.00015	.05602	mg/L	112	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
WG517124													
WG517124ICV	ICV	04/08/21 13:08	II210406-1	100		99.08	mg/L	99	95	105			
WG517124ICB	ICB	04/08/21 13:14				U	mg/L		-0.6	0.6			
WG517124LFB	LFB	04/08/21 13:27	II210401-2	50.00226		47.93	mg/L	96	85	115			
L65090-04AS	AS	04/08/21 13:48	II210401-2	50.00226	5.85	52.44	mg/L	93	85	115			
L65090-04ASD	ASD	04/08/21 13:51	II210401-2	50.00226	5.85	53.59	mg/L	95	85	115	2	20	
L65099-02AS	AS	04/08/21 14:40	II210401-2	50.00226	3.83	50.12	mg/L	93	85	115			
L65099-02ASD	ASD	04/08/21 14:43	II210401-2	50.00226	3.83	50.31	mg/L	93	85	115	0	20	

CRG Mining, LLC

ACZ Project ID: ***L65090***

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

Manganese, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517124													
WG517124ICV	ICV	04/08/21 13:08	II210406-1	2		1.945	mg/L	97	95	105			
WG517124ICB	ICB	04/08/21 13:14				U	mg/L		-0.03	0.03			
WG517124LFB	LFB	04/08/21 13:27	II210401-2	.5005		.459	mg/L	92	85	115			
L65090-04AS	AS	04/08/21 13:48	II210401-2	.5005	U	.46	mg/L	92	85	115			
L65090-04ASD	ASD	04/08/21 13:51	II210401-2	.5005	U	.464	mg/L	93	85	115	1	20	
L65099-02AS	AS	04/08/21 14:40	II210401-2	.5005	.023	.466	mg/L	89	85	115			
L65099-02ASD	ASD	04/08/21 14:43	II210401-2	.5005	.023	.475	mg/L	90	85	115	2	20	

Mercury, total M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517042													
WG517042ICV	ICV	04/07/21 13:06	HG210329-2	.00501		.00481	mg/L	96	95	105			
WG517042ICB	ICB	04/07/21 13:06				U	mg/L		-0.0002	0.0002			
WG517042LRB	LRB	04/07/21 13:08				U	mg/L		-0.00044	0.00044			
WG517042LFB	LFB	04/07/21 13:09	HG210326-3	.002002		.00197	mg/L	98	85	115			
L65084-01LFM	LFM	04/07/21 13:19	HG210326-3	.002002	U	.00183	mg/L	91	85	115			
L65084-01LFMD	LFMD	04/07/21 13:20	HG210326-3	.002002	U	.00182	mg/L	91	85	115	1	20	
L65090-07LFM	LFM	04/07/21 13:27	HG210326-3	.002002	U	.00196	mg/L	98	85	115			
L65090-07LFMD	LFMD	04/07/21 13:30	HG210326-3	.002002	U	.00189	mg/L	94	85	115	4	20	

Nickel, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517124													
WG517124ICV	ICV	04/08/21 13:08	II210406-1	2		1.997	mg/L	100	95	105			
WG517124ICB	ICB	04/08/21 13:14				U	mg/L		-0.024	0.024			
WG517124LFB	LFB	04/08/21 13:27	II210401-2	.502		.4833	mg/L	96	85	115			
L65090-04AS	AS	04/08/21 13:48	II210401-2	.502	U	.4707	mg/L	94	85	115			
L65090-04ASD	ASD	04/08/21 13:51	II210401-2	.502	U	.4704	mg/L	94	85	115	0	20	
L65099-02AS	AS	04/08/21 14:40	II210401-2	.502	U	.4619	mg/L	92	85	115			
L65099-02ASD	ASD	04/08/21 14:43	II210401-2	.502	U	.4736	mg/L	94	85	115	3	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
WG517095													
WG517095ICV	ICV	04/07/21 23:58	WI210302-17	2.416		2.38	mg/L	99	90	110			
WG517095ICB	ICB	04/07/21 23:59				U	mg/L		-0.02	0.02			
WG517027													
WG517027LFB	LFB	04/08/21 2:20	WI210331-13	2		1.967	mg/L	98	90	110			
L65090-01AS	AS	04/08/21 2:24	WI210331-13	2	.126	2.071	mg/L	97	90	110			
L65090-02DUP	DUP	04/08/21 2:26			.082	.086	mg/L				5	20	RA

CRG Mining, LLC

ACZ Project ID: ***L65090***

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

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
WG517095													
WG517095ICV	ICV	04/07/21 23:58	WI210302-17	.609		.599	mg/L	98	90	110			
WG517095ICB	ICB	04/07/21 23:59				U	mg/L		-0.01	0.01			
WG517027													
WG517027LFB	LFB	04/08/21 2:20	WI210331-13	1		.997	mg/L	100	90	110			
L65090-01AS	AS	04/08/21 2:24	WI210331-13	1	U	1.043	mg/L	104	90	110			
L65090-02DUP	DUP	04/08/21 2:26			U	U	mg/L				0	20	RA

pH (lab) SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517017													
WG517017LCSW1	LCSW	04/06/21 17:57	PCN61687	6		6	units	100	5.9	6.1			
WG517017LCSW4	LCSW	04/06/21 20:45	PCN61687	6		6.1	units	102	5.9	6.1			
WG517017LCSW7	LCSW	04/07/21 0:25	PCN61687	6		6.1	units	102	5.9	6.1			
WG517017LCSW10	LCSW	04/07/21 4:03	PCN61687	6		6.1	units	102	5.9	6.1			
L65090-01DUP	DUP	04/07/21 6:06			8.1	8.2	units				1	20	
L65092-02DUP	DUP	04/07/21 7:48			7.9	7.9	units				0	20	
WG517017LCSW13	LCSW	04/07/21 7:53	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
WG517124													
WG517124ICV	ICV	04/08/21 13:08	II210406-1	20		19.81	mg/L	99	95	105			
WG517124ICB	ICB	04/08/21 13:14				U	mg/L		-0.6	0.6			
WG517124LFB	LFB	04/08/21 13:27	II210401-2	99.97791		95.85	mg/L	96	85	115			
L65090-04AS	AS	04/08/21 13:48	II210401-2	99.97791	.63	94.86	mg/L	94	85	115			
L65090-04ASD	ASD	04/08/21 13:51	II210401-2	99.97791	.63	96.49	mg/L	96	85	115	2	20	
L65099-02AS	AS	04/08/21 14:40	II210401-2	99.97791	.74	94.77	mg/L	94	85	115			
L65099-02ASD	ASD	04/08/21 14:43	II210401-2	99.97791	.74	94.6	mg/L	94	85	115	0	20	

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517019													
WG517019PBW	PBW	04/06/21 17:05				U	mg/L		-20	20			
WG517019LCSW	LCSW	04/06/21 17:07	PCN62151	1000		992	mg/L	99	80	120			
L65090-07DUP	DUP	04/06/21 17:39			78	78	mg/L				0	10	RA
L65097-06DUP	DUP	04/06/21 18:05			U	U	mg/L				0	10	RA

Sodium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517124													
WG517124ICV	ICV	04/08/21 13:08	II210406-1	100		97.68	mg/L	98	95	105			
WG517124ICB	ICB	04/08/21 13:14				U	mg/L		-0.6	0.6			
WG517124LFB	LFB	04/08/21 13:27	II210401-2	100.0235		94.01	mg/L	94	85	115			
L65090-04AS	AS	04/08/21 13:48	II210401-2	100.0235	2.45	95.74	mg/L	93	85	115			
L65090-04ASD	ASD	04/08/21 13:51	II210401-2	100.0235	2.45	96.67	mg/L	94	85	115	1	20	
L65099-02AS	AS	04/08/21 14:40	II210401-2	100.0235	4.79	97.14	mg/L	92	85	115			
L65099-02ASD	ASD	04/08/21 14:43	II210401-2	100.0235	4.79	96.86	mg/L	92	85	115	0	20	

CRG Mining, LLC

ACZ Project ID: ***L65090***

NOTE: If the Rec% column is null, the high/low 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
WG517653													
WG517653ICB	ICB	04/17/21 9:25				U	mg/L		-3	3			
WG517653ICV	ICV	04/17/21 9:25	WI210415-1	20		20	mg/L	100	90	110			
WG517653LFB	LFB	04/17/21 12:47	WI210105-3	10		9.9	mg/L	99	90	110			
L65090-09AS	AS	04/17/21 12:51	WI210105-3	10	9.8	19.9	mg/L	101	90	110			
L65092-02DUP	DUP	04/17/21 13:19			1770	1790.3	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
WG517167													
WG517167ICV	ICV	04/09/21 11:26	II210406-1	2		1.941	mg/L	97	95	105			
WG517167ICB	ICB	04/09/21 11:33				U	mg/L		-0.015	0.015			
WG517167LFB	LFB	04/09/21 11:46	II210401-2	.5005		.4949	mg/L	99	85	115			
L65090-04AS	AS	04/09/21 12:08	II210401-2	.5005	U	.4877	mg/L	97	85	115			
L65090-04ASD	ASD	04/09/21 12:11	II210401-2	.5005	U	.491	mg/L	98	85	115	1	20	
L65090-09AS	AS	04/09/21 12:37	II210401-2	.5005	U	.4741	mg/L	95	85	115			
L65090-09ASD	ASD	04/09/21 12:41	II210401-2	.5005	U	.486	mg/L	97	85	115	2	20	

Zinc, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG517124													
WG517124ICV	ICV	04/08/21 13:08	II210406-1	2		1.984	mg/L	99	95	105			
WG517124ICB	ICB	04/08/21 13:14				U	mg/L		-0.06	0.06			
WG517124LFB	LFB	04/08/21 13:27	II210401-2	.50075		.471	mg/L	94	85	115			
L65090-04AS	AS	04/08/21 13:48	II210401-2	.50075	.151	.606	mg/L	91	85	115			
L65090-04ASD	ASD	04/08/21 13:51	II210401-2	.50075	.151	.622	mg/L	94	85	115	3	20	
L65099-02AS	AS	04/08/21 14:40	II210401-2	.50075	U	.443	mg/L	88	85	115			
L65099-02ASD	ASD	04/08/21 14:43	II210401-2	.50075	U	.446	mg/L	89	85	115	1	20	

CRG Mining, LLC ACZ Project ID: ***L65090***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65090-01	WG517017	Bicarbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
		Carbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG517691	Chloride	SM4500Cl-E	Q6	Sample was received above recommended temperature.
	WG517017	Conductivity @25C	SM2510B	Q6	Sample was received above recommended temperature.
	WG517234	Cyanide, total	M335.4 - Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG517017	Hydroxide as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG517027	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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.
	WG517017	pH	SM4500H+ B	Q6	Sample was received above recommended temperature.
		pH measured at	SM4500H+ B	Q6	Sample was received above recommended temperature.
	WG517019	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
			SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG517653	Sulfate	D516-02/-07/-11 - Turbidimetric	Q6	Sample was received above recommended temperature.
	WG517017	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

CRG Mining, LLC ACZ Project ID: ***L65090***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65090-02	WG517017	Bicarbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
		Carbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG517691	Chloride	SM4500Cl-E	Q6	Sample was received above recommended temperature.
	WG517017	Conductivity @25C	SM2510B	Q6	Sample was received above recommended temperature.
	WG517234	Cyanide, total	M335.4 - Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG517017	Hydroxide as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG517027	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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.
	WG517017	pH	SM4500H+ B	Q6	Sample was received above recommended temperature.
		pH measured at	SM4500H+ B	Q6	Sample was received above recommended temperature.
	WG517019	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
			SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG517653	Sulfate	D516-02/-07/-11 - Turbidimetric	Q6	Sample was received above recommended temperature.
	WG517017	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

CRG Mining, LLC ACZ Project ID: ***L65090***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65090-03	WG517017	Bicarbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
		Carbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG517691	Chloride	SM4500Cl-E	Q6	Sample was received above recommended temperature.
	WG517017	Conductivity @25C	SM2510B	Q6	Sample was received above recommended temperature.
	WG517234	Cyanide, total	M335.4 - Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG517017	Hydroxide as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG517027	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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.
	WG517017	pH	SM4500H+ B	Q6	Sample was received above recommended temperature.
		pH measured at	SM4500H+ B	Q6	Sample was received above recommended temperature.
	WG517019	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
			SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG517653	Sulfate	D516-02/-07/-11 - Turbidimetric	Q6	Sample was received above recommended temperature.
	WG517017	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

CRG Mining, LLC ACZ Project ID: ***L65090***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65090-04	WG517017	Bicarbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
		Carbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG517691	Chloride	SM4500Cl-E	Q6	Sample was received above recommended temperature.
	WG517017	Conductivity @25C	SM2510B	Q6	Sample was received above recommended temperature.
	WG517234	Cyanide, total	M335.4 - Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG517017	Hydroxide as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG517027	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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.
	WG517017	pH	SM4500H+ B	Q6	Sample was received above recommended temperature.
		pH measured at	SM4500H+ B	Q6	Sample was received above recommended temperature.
	WG517019	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
			SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG517653	Sulfate	D516-02/-07/-11 - Turbidimetric	Q6	Sample was received above recommended temperature.
	WG517017	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

CRG Mining, LLC ACZ Project ID: ***L65090***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65090-05	WG517017	Bicarbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
		Carbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG517691	Chloride	SM4500Cl-E	Q6	Sample was received above recommended temperature.
	WG517017	Conductivity @25C	SM2510B	Q6	Sample was received above recommended temperature.
	WG517234	Cyanide, total	M335.4 - Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG517017	Hydroxide as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG517027	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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.
	WG517017	pH	SM4500H+ B	Q6	Sample was received above recommended temperature.
		pH measured at	SM4500H+ B	Q6	Sample was received above recommended temperature.
	WG517019	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
			SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG517653	Sulfate	D516-02/-07/-11 - Turbidimetric	Q6	Sample was received above recommended temperature.
	WG517017	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

CRG Mining, LLC

ACZ Project ID: ***L65090***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65090-06	WG517017	Bicarbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
		Carbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG517691	Chloride	SM4500Cl-E	Q6	Sample was received above recommended temperature.
	WG517017	Conductivity @25C	SM2510B	Q6	Sample was received above recommended temperature.
	WG517234	Cyanide, total	M335.4 - Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG517017	Hydroxide as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG517027	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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.
	WG517017	pH	SM4500H+ B	Q6	Sample was received above recommended temperature.
		pH measured at	SM4500H+ B	Q6	Sample was received above recommended temperature.
	WG517019	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
			SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG517653	Sulfate	D516-02/-07/-11 - Turbidimetric	Q6	Sample was received above recommended temperature.
	WG517017	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

CRG Mining, LLC ACZ Project ID: ***L65090***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65090-07	WG517017	Bicarbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
		Carbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG517691	Chloride	SM4500Cl-E	Q6	Sample was received above recommended temperature.
	WG517017	Conductivity @25C	SM2510B	Q6	Sample was received above recommended temperature.
	WG517234	Cyanide, total	M335.4 - Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG517017	Hydroxide as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG517027	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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.
	WG517017	pH	SM4500H+ B	Q6	Sample was received above recommended temperature.
		pH measured at	SM4500H+ B	Q6	Sample was received above recommended temperature.
	WG517019	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
			SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG517653	Sulfate	D516-02/-07/-11 - Turbidimetric	Q6	Sample was received above recommended temperature.
	WG517017	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

CRG Mining, LLC ACZ Project ID: ***L65090***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65090-08	WG517017	Bicarbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
		Carbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG517691	Chloride	SM4500Cl-E	Q6	Sample was received above recommended temperature.
	WG517017	Conductivity @25C	SM2510B	Q6	Sample was received above recommended temperature.
	WG517234	Cyanide, total	M335.4 - Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG517017	Hydroxide as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG517027	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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.
	WG517017	pH	SM4500H+ B	Q6	Sample was received above recommended temperature.
		pH measured at	SM4500H+ B	Q6	Sample was received above recommended temperature.
	WG517019	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
			SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG517653	Sulfate	D516-02/-07/-11 - Turbidimetric	Q6	Sample was received above recommended temperature.
	WG517017	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

CRG Mining, LLC ACZ Project ID: ***L65090***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65090-09	WG517017	Bicarbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
		Carbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG517691	Chloride	SM4500Cl-E	Q6	Sample was received above recommended temperature.
	WG517017	Conductivity @25C	SM2510B	Q6	Sample was received above recommended temperature.
	WG517234	Cyanide, total	M335.4 - Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG517017	Hydroxide as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG517027	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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	Q6	Sample was received above recommended temperature.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
			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.
	WG517017	pH	SM4500H+ B	Q6	Sample was received above recommended temperature.
		pH measured at	SM4500H+ B	Q6	Sample was received above recommended temperature.
	WG517019	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
			SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG517653	Sulfate	D516-02/-07/-11 - Turbidimetric	Q6	Sample was received above recommended temperature.
	WG517017	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

Certification Qualifiers

CRG Mining, LLC

ACZ Project ID: ***L65090***

No certification qualifiers associated with this analysis

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

Sample Receipt

CRG Mining, LLC

ACZ Project ID: L65090
Date Received: 04/05/2021 10:39
Received By:
Date Printed: 4/6/2021

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	

Used quote on the outside of the sample bags

Used quote on the outside of the sample bags

Used quote on the outside of the sample bags

Used quote on the outside of the sample bags

Used quote on the outside of the sample bags

Used quote on the outside of the sample bags

Used quote on the outside of the sample bags

Used quote on the outside of the sample bags

Used quote on the outside of the sample bags

Used quote on the outside of the sample bags

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	

Some parameters were received past hold time.

NA indicates Not Applicable

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

Sample Receipt

CRG Mining, LLC

ACZ Project ID: L65090
Date Received: 04/05/2021 10:39
Received By:
Date Printed: 4/6/2021

Chain of Custody Related Remarks

The 'Relinquished By' field on the COC was not completed. The project manager is contacting the client.

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
6516	17.8	<=6.0	15	Yes

Was ice present in the shipment container(s)?

No - Wet or gel ice was not present in the shipment container(s).

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

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

ACZ Laboratories, Inc. L65090

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

CHAIN of CUSTODY

Report To

Name: Jake Wilkinson
Company: CRG Mining LLC
E-mail: jwilkinson@crgmining.com
Address: 510 South Wisconsin St
Telephone: 970-417-3311

Copy To

Name: Same
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 [X] NO [ ]

If "NO" then ACZ will contact client for further instruction. If either "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

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

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

Sampler's Name: Jake Wilkins Sampler's Site Information State Colorado Zip code 81230 Time Zone MST

*Sampler's Signature:

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

Project Information

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

Sample Identification	Date Time	Matrix	# of Containers								
GL1	4/1/2021 10:07am	SW	5								
GL2	4/1/2021 10:15am	SW	5								
GL3	4/1/2021 10:32am	SW	5								
RM1	4/1/2021 10:45am	SW	5								
RM2	4/1/2021 10:55am	SW	5								
RM3	4/1/2021 11:25am	SW	5								
CM1	4/1/2021 11:40am	SW	5								
CM2	4/1/2021 11:45am	SW	5								
CM3	4/12021 11:58am	SW	5								

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

Remarks

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

Relinquished By	Date/Time	Received By	Date/Time
		Alex 4/5/21	10:39

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

L65090 Chain of Custod