

September 30, 2016

Report to:

Mark Steen

Colorado Milling Company , LLC

PO Box 1523

Longmont, CO 80502

cc: Gordon E. Sweeney

Bill to:

Mark Steen

Colorado Milling Company , LLC

PO Box 1523

Longmont, CO 80502

Project ID:

ACZ Project ID: L33067

Mark Steen:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on September 21, 2016. This project has been assigned to ACZ's project number, L33067. 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 L33067. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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

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

All samples and sub-samples associated with this project will be disposed of after October 30, 2016. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

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



Sue Webber has reviewed and
approved this report.



Colorado Milling Company, LLC

Project ID:

Sample ID: 0160920-MW 1

ACZ Sample ID: **L33067-01**

Date Sampled: 09/20/16 09:04

Date Received: 09/21/16

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	1	0.0007	B		mg/L	0.0002	0.001	09/29/16 0:02	enb
Cadmium, dissolved	M200.8 ICP-MS	1	0.0001	B		mg/L	0.0001	0.0005	09/29/16 0:02	enb
Manganese, dissolved	M200.7 ICP	1	0.215			mg/L	0.005	0.03	09/29/16 19:24	aeb
Zinc, dissolved	M200.7 ICP	1	0.07			mg/L	0.01	0.05	09/29/16 19:24	aeb

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um filter)	SOPWC050	1							09/24/16 10:21	sck
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A	1							09/26/16 16:18	sck
Residue, Filterable (TDS) @180C	SM2540C	1	1530		*	mg/L	10	20	09/23/16 14:15	sck
Sulfate	D516-02/-07 - Turbidimetric	50	954		*	mg/L	50	250	09/28/16 14:33	spl

Colorado Milling Company, LLC

Project ID:

Sample ID: 0160920-MW 5

ACZ Sample ID: **L33067-02**

Date Sampled: 09/20/16 09:20

Date Received: 09/21/16

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	1	0.0036			mg/L	0.0002	0.001	09/29/16 0:05	enb
Cadmium, dissolved	M200.8 ICP-MS	1	0.0003	B		mg/L	0.0001	0.0005	09/29/16 0:05	enb
Manganese, dissolved	M200.7 ICP	1	0.019	B		mg/L	0.005	0.03	09/29/16 19:27	aeb
Zinc, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	09/29/16 19:27	aeb

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um filter)	SOPWC050	1							09/24/16 10:23	sck
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A	1							09/26/16 16:18	sck
Residue, Filterable (TDS) @180C	SM2540C	1	640		*	mg/L	10	20	09/23/16 14:18	sck
Sulfate	D516-02/-07 - Turbidimetric	10	323		*	mg/L	10	50	09/28/16 14:19	spl

Colorado Milling Company, LLC

Project ID:

Sample ID: 0160920-CG

ACZ Sample ID: **L33067-03**

Date Sampled: 09/20/16 11:50

Date Received: 09/21/16

Sample Matrix: Surface Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	1	0.0002	B		mg/L	0.0002	0.001	09/29/16 0:08	enb
Cadmium, dissolved	M200.8 ICP-MS	1	0.0007			mg/L	0.0001	0.0005	09/29/16 0:08	enb
Manganese, dissolved	M200.7 ICP	1	0.048			mg/L	0.005	0.03	09/29/16 15:38	aeb
Zinc, dissolved	M200.7 ICP	1	0.19			mg/L	0.01	0.05	09/29/16 1:10	aeb

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um filter)	SOPWC050	1							09/24/16 10:26	sck
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A	1							09/26/16 16:18	sck
Residue, Filterable (TDS) @180C	SM2540C	1	256		*	mg/L	10	20	09/23/16 13:20	sck
Sulfate	D516-02/-07 - Turbidimetric	5	133		*	mg/L	5	25	09/28/16 14:02	spl

Colorado Milling Company, LLC
Project ID:
Sample ID: CASE MINE POND

ACZ Sample ID: **L33067-04**
Date Sampled: 09/20/16 11:20
Date Received: 09/21/16
Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	1	0.0006	B		mg/L	0.0002	0.001	09/29/16 0:12	enb
Cadmium, dissolved	M200.8 ICP-MS	1	0.0067			mg/L	0.0001	0.0005	09/29/16 0:12	enb
Manganese, dissolved	M200.7 ICP	1	2.280			mg/L	0.005	0.03	09/29/16 19:30	aeb
Zinc, dissolved	M200.7 ICP	1	2.42			mg/L	0.01	0.05	09/29/16 19:30	aeb

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um filter)	SOPWC050	1							09/24/16 10:28	sck
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A	1							09/26/16 16:18	sck
Residue, Filterable (TDS) @180C	SM2540C	1	886		*	mg/L	10	20	09/23/16 14:20	sck
Sulfate	D516-02/-07 - Turbidimetric	20	512		*	mg/L	20	100	09/28/16 14:19	spl

Colorado Milling Company, LLC

Project ID:

Sample ID: 0160920-W1

ACZ Sample ID: **L33067-05**

Date Sampled: 09/20/16 09:20

Date Received: 09/21/16

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Manganese, dissolved	M200.7 ICP	1		U		mg/L	0.005	0.03	09/29/16 19:33	aeb
Zinc, dissolved	M200.7 ICP	1	0.02	B		mg/L	0.01	0.05	09/29/16 19:33	aeb

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um filter)	SOPWC050	1							09/24/16 10:31	sck
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A	1							09/26/16 16:18	sck
Residue, Filterable (TDS) @180C	SM2540C	1	370		*	mg/L	10	20	09/23/16 14:23	sck
Sulfate	D516-02/-07 - Turbidimetric	5	192		*	mg/L	5	25	09/28/16 14:02	spl

Colorado Milling Company, LLC

Project ID:

Sample ID: 0160920-W2

ACZ Sample ID: **L33067-06**

Date Sampled: 09/20/16 09:40

Date Received: 09/21/16

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Manganese, dissolved	M200.7 ICP	1		U		mg/L	0.005	0.03	09/29/16 19:36	aeb
Zinc, dissolved	M200.7 ICP	1	0.21			mg/L	0.01	0.05	09/29/16 19:36	aeb

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um filter)	SOPWC050	1							09/24/16 10:33	sck
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A	1							09/26/16 16:18	sck
Residue, Filterable (TDS) @180C	SM2540C	1	496		*	mg/L	10	20	09/23/16 14:26	sck
Sulfate	D516-02/-07 - Turbidimetric	10	289		*	mg/L	10	50	09/28/16 14:55	spl

Colorado Milling Company, LLC

Project ID:

Sample ID: 0160920-W3

ACZ Sample ID: **L33067-07**

Date Sampled: 09/20/16 09:55

Date Received: 09/21/16

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Manganese, dissolved	M200.7 ICP	1		U		mg/L	0.005	0.03	09/29/16 19:40	aeb
Zinc, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	09/29/16 19:40	aeb

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um filter)	SOPWC050	1							09/24/16 10:35	sck
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A	1							09/26/16 16:18	sck
Residue, Filterable (TDS) @180C	SM2540C	1	416		*	mg/L	10	20	09/23/16 14:28	sck
Sulfate	D516-02/-07 - Turbidimetric	5	158		*	mg/L	5	25	09/28/16 14:48	spl

Colorado Milling Company, LLC

Project ID:

Sample ID: 0160920-W4

ACZ Sample ID: **L33067-08**

Date Sampled: 09/20/16 10:15

Date Received: 09/21/16

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Manganese, dissolved	M200.7 ICP	1		U		mg/L	0.005	0.03	09/29/16 19:43	aeb
Zinc, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	09/29/16 19:43	aeb

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um filter)	SOPWC050	1							09/24/16 10:38	sck
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A	1							09/26/16 16:18	sck
Residue, Filterable (TDS) @180C	SM2540C	1	282		*	mg/L	10	20	09/23/16 14:34	sck
Sulfate	D516-02/-07 - Turbidimetric	5	91.9		*	mg/L	5	25	09/28/16 14:48	spl

Colorado Milling Company, LLC

Project ID:

Sample ID: 0160920-TAILINGS POND

ACZ Sample ID: **L33067-09**

Date Sampled: 09/20/16 12:15

Date Received: 09/21/16

Sample Matrix: Ground Water

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	2	0.0011	B		mg/L	0.0004	0.002	09/29/16 0:15	enb
Cadmium, dissolved	M200.8 ICP-MS	2		U		mg/L	0.0002	0.001	09/29/16 0:15	enb
Manganese, dissolved	M200.7 ICP	2	0.10			mg/L	0.01	0.05	09/29/16 19:53	aeb
Zinc, dissolved	M200.7 ICP	2		U		mg/L	0.02	0.1	09/29/16 19:53	aeb

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um filter)	SOPWC050	1							09/24/16 10:40	sck
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A	1							09/26/16 16:18	sck
Residue, Filterable (TDS) @180C	SM2540C	1	2330		*	mg/L	10	20	09/23/16 14:36	sck
Sulfate	D516-02/-07 - Turbidimetric	50	1620		*	mg/L	50	250	09/28/16 14:56	spl


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)

<i>B</i>	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
<i>H</i>	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
<i>L</i>	Target analyte response was below the laboratory defined negative threshold.
<i>U</i>	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:

<http://www.acz.com/public/extquallist.pdf>

Colorado Milling Company, LLC

ACZ Project ID: **L33067**

Arsenic, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG410603													
WG410603ICV	ICV	09/28/16 23:06	MS160920-1	.05		.05292	mg/L	106	90	110			
WG410603ICB	ICB	09/28/16 23:09				U	mg/L		-0.0006	0.0006			
WG410603LFB	LFB	09/28/16 23:12	MS160826-3	.0501		.04896	mg/L	98	85	115			
L33069-04AS	AS	09/29/16 0:38	MS160826-3	.0501	.0035	.05622	mg/L	105	70	130			
L33069-04ASD	ASD	09/29/16 0:41	MS160826-3	.0501	.0035	.05726	mg/L	107	70	130	2	20	

Cadmium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG410603													
WG410603ICV	ICV	09/28/16 23:06	MS160920-1	.05		.04996	mg/L	100	90	110			
WG410603ICB	ICB	09/28/16 23:09				U	mg/L		-0.0003	0.0003			
WG410603LFB	LFB	09/28/16 23:12	MS160826-3	.05005		.0437	mg/L	87	85	115			
L33069-04AS	AS	09/29/16 0:38	MS160826-3	.05005	U	.04782	mg/L	96	70	130			
L33069-04ASD	ASD	09/29/16 0:41	MS160826-3	.05005	U	.05132	mg/L	103	70	130	7	20	

Manganese, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG410641													
WG410641ICV	ICV	09/29/16 13:55	II160912-1	2		1.961	mg/L	98	95	105			
WG410641ICB	ICB	09/29/16 14:01				U	mg/L		-0.015	0.015			
WG410641LFB	LFB	09/29/16 14:14	II160921-4	.5		.5084	mg/L	102	85	115			
L33056-05AS	AS	09/29/16 15:15	II160921-4	.5	U	.525	mg/L	105	85	115			
L33056-05ASD	ASD	09/29/16 15:18	II160921-4	.5	U	.5246	mg/L	105	85	115	0	20	
WG410654													
WG410654ICV	ICV	09/29/16 18:26	II160912-1	2		1.977	mg/L	99	95	105			
WG410654ICB	ICB	09/29/16 18:32				U	mg/L		-0.015	0.015			
WG410654LFB	LFB	09/29/16 18:45	II160921-4	.5		.507	mg/L	101	85	115			
L32951-01AS	AS	09/29/16 19:01	II160921-4	.5	.198	.6999	mg/L	100	85	115			
L32951-01ASD	ASD	09/29/16 19:04	II160921-4	.5	.198	.7006	mg/L	101	85	115	0	20	
L33067-08AS	AS	09/29/16 19:46	II160921-4	.5	U	.5201	mg/L	104	85	115			
L33067-08ASD	ASD	09/29/16 19:49	II160921-4	.5	U	.5181	mg/L	104	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
WG410323													
WG410323PBW	PBW	09/23/16 13:00				U	mg/L		-20	20			
WG410323LCSW	LCSW	09/23/16 13:02	PCN51570	260		250	mg/L	96	80	120			
L33080-03DUP	DUP	09/23/16 13:31			564	568	mg/L				1	10	
WG410324													
WG410324PBW	PBW	09/23/16 14:00				U	mg/L		-20	20			
WG410324LCSW	LCSW	09/23/16 14:02	PCN51570	260		254	mg/L	98	80	120			
L33067-07DUP	DUP	09/23/16 14:31			416	420	mg/L				1	10	
L33079-04DUP	DUP	09/23/16 15:00			5210	5340	mg/L				2	10	

Colorado Milling Company, LLC

ACZ Project ID: **L33067**

Sulfate

D516-02/-07 - Turbidimetric

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG410582													
WG410582ICB	ICB	09/28/16 11:11				U	mg/L		-3	3			
WG410582ICV	ICV	09/28/16 11:11	WI160916-1	20		19.7	mg/L	99	90	110			
WG410582LFB	LFB	09/28/16 13:53	WI160815-8	10		9.7	mg/L	97	90	110			
L33061-05DUP	DUP	09/28/16 13:53			13.5	13.3	mg/L				1	20	
L33061-06AS	AS	09/28/16 13:53	WI160815-8	10	U	10	mg/L	100	90	110			
L33067-07AS	AS	09/28/16 14:48	SO4TURB5X	10	158	163	mg/L	50	90	110			M3
L33067-06DUP	DUP	09/28/16 14:55			289	288	mg/L				0	20	

Zinc, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG410609													
WG410609ICV	ICV	09/28/16 23:28	II160912-1	2		1.973	mg/L	99	95	105			
WG410609ICB	ICB	09/28/16 23:34				U	mg/L		-0.03	0.03			
WG410609LFB	LFB	09/28/16 23:47	II160921-4	.4995		.515	mg/L	103	85	115			
L33056-05AS	AS	09/29/16 0:48	II160921-4	.4995	U	.508	mg/L	102	85	115			
L33056-05ASD	ASD	09/29/16 0:51	II160921-4	.4995	U	.508	mg/L	102	85	115	0	20	
WG410654													
WG410654ICV	ICV	09/29/16 18:26	II160912-1	2		2	mg/L	100	95	105			
WG410654ICB	ICB	09/29/16 18:32				U	mg/L		-0.03	0.03			
WG410654LFB	LFB	09/29/16 18:45	II160921-4	.4995		.515	mg/L	103	85	115			
L32951-01AS	AS	09/29/16 19:01	II160921-4	.4995	U	.522	mg/L	105	85	115			
L32951-01ASD	ASD	09/29/16 19:04	II160921-4	.4995	U	.52	mg/L	104	85	115	0	20	
L33067-08AS	AS	09/29/16 19:46	II160921-4	.4995	U	.528	mg/L	106	85	115			
L33067-08ASD	ASD	09/29/16 19:49	II160921-4	.4995	U	.564	mg/L	113	85	115	7	20	

Colorado Milling Company, LLC

ACZ Project ID: **L33067**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L33067-01	WG410324	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
	WG410582	Sulfate	D516-02/-07 - Turbidimetric	Q6	Sample was received above recommended temperature.
L33067-02	WG410324	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
	WG410582	Sulfate	D516-02/-07 - Turbidimetric	Q6	Sample was received above recommended temperature.
L33067-03	WG410323	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
	WG410582	Sulfate	D516-02/-07 - Turbidimetric	Q6	Sample was received above recommended temperature.
L33067-04	WG410324	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
	WG410582	Sulfate	D516-02/-07 - Turbidimetric	Q6	Sample was received above recommended temperature.
L33067-05	WG410324	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
	WG410582	Sulfate	D516-02/-07 - Turbidimetric	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07 - Turbidimetric	Q6	Sample was received above recommended temperature.
L33067-06	WG410324	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
	WG410582	Sulfate	D516-02/-07 - Turbidimetric	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07 - Turbidimetric	Q6	Sample was received above recommended temperature.
L33067-07	WG410324	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
	WG410582	Sulfate	D516-02/-07 - Turbidimetric	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07 - Turbidimetric	Q6	Sample was received above recommended temperature.
L33067-08	WG410324	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
	WG410582	Sulfate	D516-02/-07 - Turbidimetric	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07 - Turbidimetric	Q6	Sample was received above recommended temperature.
L33067-09	WG410324	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
	WG410582	Sulfate	D516-02/-07 - Turbidimetric	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07 - Turbidimetric	Q6	Sample was received above recommended temperature.

Colorado Milling Company, LLC

ACZ Project ID: **L33067**

No certification qualifiers associated with this analysis

Colorado Milling Company, LLC

ACZ Project ID: L33067

Date Received: 09/21/2016 10:42

Received By: kmo

Date Printed: 9/22/2016

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2) Is the Chain of Custody form or other directive shipping papers present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3) Does this project require special handling procedures such as CLP protocol?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4) Are any samples NRC licensable material?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5) If samples are received past hold time, proceed with requested short hold time analyses?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6) Is the Chain of Custody form complete and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples? A change was made in the Sample Date:Time Line 8 section prior to ACZ custody.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Samples/Containers

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

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
4110	10.6	<=6.0	17	Yes

Was ice present in the shipment container(s)?

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

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

Colorado Milling Company, LLC

ACZ Project ID: L33067

Date Received: 09/21/2016 10:42

Received By: kmo

Date Printed: 9/22/2016

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. L33067

CHAIN of CUSTODY

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

Report to:

Name: Mark A. Steen
 Company: Colorado Milling Co LLC
 E-mail: goldfontine@gmail.com

Address: P.O. Box 1523
Longmont Colorado
 Telephone:

Copy of Report to:

Name: Gordon Sweeney
 Company: CMC LLC

E-mail: gordonsweeney@gmail.com
 Telephone: 303-440-0633

Invoice to:

Name: Mark A. Steen
 Company: Colo Milling Co LLC
 E-mail: goldfontine@gmail.com

Address: P.O. Box 1523
Longmont Colorado
 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: Lewis PERKINS Sampler's Site Information State CO Zip code 80302 Time Zone MDT

*Sampler's Signature: Lewis Perkins 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#:

Reporting state for compliance testing: ColoradoCheck box if samples include NRC licensed material? ☐

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers																	
0160920--mabl	9/20/16 9:04 AM	GW	3																	
0160920--MW5	9/20/16 9:20 AM	GW	3																	
0160920--3100	9/20/16 9:40	SW	3																	
0160920--CG	9/20/16 11:50 AM	SW																		
case mine pond	9/20/16 11:20	GW	3																	
0160920--W1	9/20/16 9:20 AM	GW	3																	
0160920--W2	9/20/16 9:40 AM	GW	3																	
0160920--W3	9/20/16 9:55 AM	GW	3																	
0160920--W4	9/20/16 10:15 AM	GW	3																	
0160920--tailings pond	9/20/16 12:35 PM	PW	3																	

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

REMARKS

call Gordon Sweeney @ 303-442-1062 for the metals to be analyzed for.
 all samples are raw, filtered as needed

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

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
<u>Lewis Perkins</u>	<u>9/20/16 3:53 PM</u>	<u>U.P.S 3795 frontier</u>	<u>3 PM SS.</u>
		<u>BOVARD, CO 80301</u>	<u>09/20/16</u>

L33067-16093021100

White - Return with sample.

Yellow - Retain for your records

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