January 08, 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: L28384

Mark Steen:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on January 04, 2016. This project has been assigned to ACZ's project number, L28384. 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 L28384. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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

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

All samples and sub-samples associated with this project will be disposed of after February 07, 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.

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Inorganic Analytical Results

Colorado Milling Company, LLC

Project ID:

Sample ID: 0151229-MW1

ACZ Sample ID: **L28384-01**

Date Sampled: 12/29/15 10:35

Date Received: 01/04/16

Sample Matrix: Ground Water

Metals		
IVIC Lai	$\sigma \sim 100$	1731

Parameter	EPA Method	Dilution	Result	Qual XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	1	0.0005	В	mg/L	0.0002	0.001	01/07/16 10:42	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.0001	В	mg/L	0.0001	0.0005	01/07/16 10:42	mfm
Manganese, dissolved	M200.7 ICP	1	0.271		mg/L	0.005	0.03	01/07/16 11:27	aeb
Zinc, dissolved	M200.7 ICP	1		U	mg/L	0.01	0.05	01/07/16 11:27	aeb

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um filter)	SOPWC050	1							01/08/16 11:05	emk
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A	1							01/05/16 15:00	gss
Residue, Filterable (TDS) @180C	SM2540C	1	1710			mg/L	10	20	01/05/16 16:22	emk
Sulfate	D516-02/-07 - Turbidimetric	50	698			mg/L	50	250	01/06/16 16:57	krh

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Inorganic Analytical Results

Colorado Milling Company, LLC

Project ID:

Sample ID: 0151229-MW5

Date Sampled: 12/29/15 13:40

Date Received: 01/04/16

Sample Matrix: Ground Water

Metal		

Parameter	EPA Method	Dilution	Result	Qual XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	1	0.0048		mg/L	0.0002	0.001	01/07/16 10:51	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.0002	В	mg/L	0.0001	0.0005	01/07/16 10:51	mfm
Manganese, dissolved	M200.7 ICP	1	0.035		mg/L	0.005	0.03	01/07/16 11:30	aeb
Zinc, dissolved	M200.7 ICP	1		U	mg/L	0.01	0.05	01/07/16 11:30	aeb

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um filter)	SOPWC050	1							01/06/16 11:23	8 emk
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A	1							01/05/16 15:00) gss
Residue, Filterable (TDS) @180C	SM2540C	1	824			mg/L	10	20	01/05/16 16:25	5 emk
Sulfate	D516-02/-07 - Turbidimetric	10	313			mg/L	10	50	01/06/16 16:45	5 krh

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Inorganic Analytical Results

Colorado Milling Company, LLC

Project ID:

Sample ID: 0151229-CG

Date Sampled: 12/29/15 14:25

Date Received: 01/04/16

Sample Matrix: Surface Water

Metal		

Parameter	EPA Method	Dilution	Result	Qual XQ	Units	MDL	PQL	Date	Analyst
Arsenic, dissolved	M200.8 ICP-MS	1		U	mg/L	0.0002	0.001	01/07/16 10:54	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.0014		mg/L	0.0001	0.0005	01/07/16 10:54	mfm
Manganese, dissolved	M200.7 ICP	1	0.021	В	mg/L	0.005	0.03	01/07/16 11:34	aeb
Zinc, dissolved	M200.7 ICP	1	0.33		mg/L	0.01	0.05	01/07/16 11:34	aeb

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lab Filtration (0.45um filter)	SOPWC050	1							01/06/16 11:27	emk
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A	1							01/05/16 15:00	gss
Residue, Filterable (TDS) @180C	SM2540C	1	422			mg/L	10	20	01/05/16 16:30	emk
Sulfate	D516-02/-07 - Turbidimetric	10	219			mg/L	10	50	01/06/16 16:45	krh

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Re	port 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

00	Came	alla 1	

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:

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

REP001.03.15.02

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Colorado Milling Company, LLC

ACZ Project ID: L28384

Arsenic, dissolv	ed		M200.8 IC	P-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qua
WG396765													
WG396765ICV	ICV	01/07/16 10:24	MS151201-3	.05		.05179	mg/L	104	90	110			
WG396765ICB	ICB	01/07/16 10:27				U	mg/L		-0.0006	0.0006			
WG396765LFB	LFB	01/07/16 10:30	MS151223-2	.0501		.05203	mg/L	104	85	115			
L28384-01AS	AS	01/07/16 10:46	MS151223-2	.0501	.0005	.05875	mg/L	116	70	130			
L28384-01ASD	ASD	01/07/16 10:48	MS151223-2	.0501	.0005	.05683	mg/L	112	70	130	3	20	
Cadmium, disso	lved		M200.8 IC	P-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qua
WG396765													
WG396765ICV	ICV	01/07/16 10:24	MS151201-3	.05		.05241	mg/L	105	90	110			
WG396765ICB	ICB	01/07/16 10:27				U	mg/L		-0.0003	0.0003			
WG396765LFB	LFB	01/07/16 10:30	MS151223-2	.05005		.05091	mg/L	102	85	115			
L28384-01AS	AS	01/07/16 10:46	MS151223-2	.05005	.0001	.05007	mg/L	100	70	130			
L28384-01ASD	ASD	01/07/16 10:48	MS151223-2	.05005	.0001	.04949	mg/L	99	70	130	1	20	
Manganese, dis	solved		M200.7 IC	Р									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qua
WG396770													
WG396770ICV	ICV	01/07/16 10:31	II160105-3	2		1.938	mg/L	97	95	105			
WG396770ICB	ICB	01/07/16 10:37				U	mg/L		-0.015	0.015			
WG396770LFB	LFB	01/07/16 10:49	II151221-2	.499		.4856	mg/L	97	85	115			
L28383-01AS	AS	01/07/16 11:05	II151221-2	.499	U	.4883	mg/L	98	85	115			
L28383-01ASD	ASD	01/07/16 11:08	II151221-2	.499	U	.4898	mg/L	98	85	115	0	20	
Residue, Filtera	ble (TDS) @180C	SM2540C										
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qua
WG396691													
WG396691PBW	PBW	01/05/16 16:03				U	mg/L		-20	20			
WG396691LCSW	LCSW	01/05/16 16:04	PCN49653	260		264	mg/L	102	80	120			
L28384-02DUP	DUP	01/05/16 16:27			824	828	mg/L				0	10	
_28399-05DUP	DUP	01/05/16 16:55			364	358	mg/L				2	10	
Sulfate			D516-02/-	07 - Turbi	dimetric								
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qua
WG396733													
WG396733ICB	ICB	01/06/16 11:14				U	mg/L		-3	3			
WG396733ICV	ICV	01/06/16 11:14	WI151230-1	20		19.7	mg/L	99	90	110			
WG396733LFB1	LFB	01/06/16 16:29	WI150904-1	10.01		9.5	mg/L	95	90	110			
L28379-01DUP	DUP	01/06/16 16:29			16.4	16.1	mg/L				2	20	
L28379-02AS	AS	01/06/16 16:29	WI150904-1	10.01	U	11	mg/L	110	90	110			
WG396733LFB2	LFB	01/06/16 17:22	WI150904-1	10.01	-	9.6	mg/L	96	90	110			

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Colorado Milling Company, LLC

ACZ Project ID: L28384

Zinc, dissolved			M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG396770													
WG396770ICV	ICV	01/07/16 10:31	II160105-3	2		1.905	mg/L	95	95	105			
WG396770ICB	ICB	01/07/16 10:37				U	mg/L		-0.03	0.03			
WG396770LFB	LFB	01/07/16 10:49	II151221-2	.4995		.486	mg/L	97	85	115			
L28383-01AS	AS	01/07/16 11:05	II151221-2	.4995	.04	.526	mg/L	97	85	115			
L28383-01ASD	ASD	01/07/16 11:08	II151221-2	.4995	.04	.52	mg/L	96	85	115	1	20	

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Inorganic Extended Qualifier Report

Colorado Milling Company, LLC

ACZ ID

WORKNUM PARAMETER METHOD

QUAL DESCRIPTION

ACZ Project ID: L28384

No extended qualifiers associated with this analysis

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Certification Qualifiers

Colorado Milling Company, LLC

ACZ Project ID: L28384

No certification qualifiers associated with this analysis

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Sample Receipt

Colorado Milling Company, LLC

ACZ Project ID: L28384
Date Received: 01/04/2016 10:15

Received By: ddp
Date Printed: 1/4/2016

	100	10.00		
Recei				TI O IO
NGGGI	V	(T)	ાવા	1 1 2 1 1

- 1) Is a foreign soil permit included for applicable samples?
- 2) Is the Chain of Custody form or other directive shipping papers present?
- 3) Does this project require special handling procedures such as CLP protocol?
- 4) Are any samples NRC licensable material?
- 5) If samples are received past hold time, proceed with requested short hold time analyses?
- 6) Is the Chain of Custody form complete and accurate?
- 7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?

A change was made in the Report To Address, Hold Time, Compliance Monitoring, Remarks, Upper Right Hand Margin section prior to ACZ custody.

YES	NO	NA
		X
Х		
		Х
		Х
Χ		
X		
Х		

NO

NA

Samples/Containers

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

X	
X	
X	
	Х
X	
	Х
	Х
X	
	Х
	Х
X	

YES

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp	$Rad(\mu R/Hr)$	Custody Seal
		Criteria(°C)		Intact?
4348	0.5	<=6 0	15	Yes

Was ice present in the shipment container(s)?

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

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



Sample Receipt

Colorado Milling Company, LLC

ACZ Project ID: L28384

Date Received: 01/04/2016 10:15

Received By: ddp

Date Printed: 1/4/2016

REPAD LPII 2012-03

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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).

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