

June 12, 2020

Mr. Kelly Hodge
Mill Iron Mining
801 8th Street
Greeley, Colorado 80631

Subject: May 2020 Groundwater Sampling Results
AGPRO Project #2354-01

Dear Mr. Hodge:

AGPROfessionals (AGPRO) is providing this letter to confirm that groundwater sampling was conducted at the facility known as the Derr Pit owned by Broken Arrow Investments, LLC on May 4, 2020. Previously, AGPRO had conducted groundwater sampling at MW-1 and MW-3 of the Derr Pit on September 12, 2018. As discussed with Mr. Eric Scott of the Division of Reclamation, Mining, and Safety, MW-1 was inaccessible and unable to be sampled during the May 2020 sampling event. Therefore, MW-2 was sampled in substitution of MW-1 during the May 2020 sampling event. Additionally, MW-18, which is upgradient to the Derr Pit, was sampled during the May 2020 sampling event at Mr. Scott's request.

A summary table displaying the September 2018 and May 2020 analytical results and field parameters is attached, along with the original analytical reports.

Please alert us if there is any additional information needed pertaining to the sampling events conducted by AGPRO.

Regards,



Matthew Koch, E.I.T
Environmental Engineer
AGPROfessionals, LLC

Attachments

Analytical Summary Table
Analytical Reports

GW ANALYTICAL SUMMARY TABLE

Mill Iron Groundwater Sampling Summary

Parameter	MW-18 Result 5/4/20	MW-1 Result 9/11/18	MW-2 Result 5/4/20	MW-3 Result 9/12/18	MW-3 Result 5/4/20	Reporting Units	Test	Prep Method	Reporting Limit	Method
Total Alkalinity	284.2	213.9	223.8	288.2	283.7	mg/L as CaCO ₃	Alkalinity		0.1	SM 2320-B
Calcium as CaCO ₃	503.6	375.8	553.1	610.5	565.6	mg/L	Ca as CaCO ₃	Total	0.1	EPA 200.7
Bicarbonate	284.2	213.9	223.8	288.2	283.7	mg/L as CaCO ₃	Carb/ Bicarb		0.1	SM 2320-B
Carbonate	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	mg/L as CaCO ₃	Carb/ Bicarb		0.1	SM 2320-B
Hydroxide	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	mg/L as CaCO ₃	Carb/ Bicarb		0.1	SM 2320-B
Chloride	47.38	44.73	61.78	52.64	51.27	mg/L	Chloride		0.01	EPA 300.0
Chromium - Hexavalent	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	mg/L	Cr - Hex	Dissolved	0.01	SM 3500-Cr B
Chromium - Trivalent	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	mg/L	Cr - Tri	Dissolved	0.01	Calculation
Fluoride	0.46	0.86	0.63	0.73	0.52	mg/L	Fluoride		0.09	EPA 300.0
Mercury	< 0.0002		< 0.0002		< 0.0002	mg/L	Hg	Dissolved	0.0002	EPA 245.7
Langelier Index	0.43	0.13	0.60	0.47	0.53	units	Lang Index			SM 2330-B
Aluminum	0.047	0.784	0.006	0.004	0.002	mg/L	Metals By ICP-MS	Dissolved	0.001	EPA 200.8
Antimony	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	mg/L	Metals By ICP-MS	Dissolved	0.0012	EPA 200.8
Arsenic	0.0008	0.0007	0.0010	< 0.0006	0.0007	mg/L	Metals By ICP-MS	Dissolved	0.0006	EPA 200.8
Barium	0.0262	0.0417	0.0253	0.0270	0.0167	mg/L	Metals By ICP-MS	Dissolved	0.0007	EPA 200.8
Beryllium	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	mg/L	Metals By ICP-MS	Dissolved	0.0001	EPA 200.8
Cadmium	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	mg/L	Metals By ICP-MS	Dissolved	0.0001	EPA 200.8
Chromium	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015	mg/L	Metals By ICP-MS	Dissolved	0.0015	EPA 200.8
Cobalt	< 0.0002	0.0002	< 0.0002	< 0.0002	< 0.0002	mg/L	Metals By ICP-MS	Dissolved	0.0002	EPA 200.8
Copper	0.0009	0.0022	0.0011	< 0.0008	< 0.0008	mg/L	Metals By ICP-MS	Dissolved	0.0008	EPA 200.8
Lead	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	mg/L	Metals By ICP-MS	Dissolved	0.0001	EPA 200.8
Manganese	0.0019	0.0056	< 0.0008	0.0010	0.0014	mg/L	Metals By ICP-MS	Dissolved	0.0008	EPA 200.8
Molybdenum	0.0014	0.0035	0.0070	0.0022	0.0023	mg/L	Metals By ICP-MS	Dissolved	0.0005	EPA 200.8
Nickel	0.0010	< 0.0009	< 0.0009	< 0.0009	< 0.0009	mg/L	Metals By ICP-MS	Dissolved	0.0009	EPA 200.8
Selenium	0.0062	0.0069	0.0079	0.0082	0.0068	mg/L	Metals By ICP-MS	Dissolved	0.0008	EPA 200.8
Silver	< 0.0005	< 0.0001	< 0.0005	< 0.0001	< 0.0005	mg/L	Metals By ICP-MS	Dissolved	0.0001	EPA 200.8
Thallium	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	mg/L	Metals By ICP-MS	Dissolved	0.0002	EPA 200.8
Uranium	0.0377	0.0359	0.0534	0.0673	0.0594	mg/L	Metals By ICP-MS	Dissolved	0.0002	EPA 200.8
Vanadium	0.002	0.002	0.001	0.001	0.001	mg/L	Metals By ICP-MS	Dissolved	0.001	EPA 200.8
Zinc	< 0.001	< 0.001	< 0.001	< 0.001	0.001	mg/L	Metals By ICP-MS	Dissolved	0.001	EPA 200.8

Parameter	MW-18 Result 5/4/20	MW-1 Result 9/11/18	MW-2 Result 5/4/20	MW-3 Result 9/12/18	MW-3 Result 5/4/20	Reporting Units	Test	Prep Method	Reporting Limit	Method
Boron	0.34	0.24	0.39	0.28	0.33	mg/L	Metals By OES	Dissolved	0.01	EPA 200.7
Iron	0.008	0.279	0.008	< 0.005	< 0.005	mg/L	Metals By OES	Dissolved	0.005	EPA 200.7
Nitrate Nitrogen	20.94	11.08	20.87	24.07	21.10	mg/L	Nitrate Nitrogen		0.05	EPA 300.0
Nitrate/ Nitrite Nitrogen	20.94	11.08	20.87	24.07	21.10	mg/L	Nitrate/ Nitrite Nitrogen		0.05	Calculation
Nitrite Nitrogen	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	mg/L	Nitrite Nitrogen		0.03	EPA 300.0
pH	7.18	7.09	7.42	7.13	7.23	units	pH	Lab	0.01	SM 4500-H-B
Temperature	20	20	20	20	20	°C	Temp	Lab	1	SM 4500-H-B
Sulfate	534.16	475.59	716.45	639.87	627.68	mg/L	Sulfate		0.01	EPA 300.0
Total Dissolved Solids	1270	517	1528	1468	1452	mg/L	TDS		5	SM 2540-C
Cyanide-Free	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	mg/L	Cyanide - Free		0.005	EPA 335.4
Phenols - Total	< 0.015	0.112	< 0.015	0.074	<0.015	mg/L	Phenols		0.050	EPA 420.1
Total Coliform	2	293	34	2	582	mpn/100ml	Total Coliform		1	SM 9221-B
FIELD MEASUREMENTS										
Depth to Water (from TOC)	46.74	16.43	19.79	17.76	20.59	Feet		Field		
pH	8.92	7.10	7.86	7.40	8.67	pH units		Field		
Temperature	14.8	16.67	22.5	13.6	15.1	degrees Celsius		Field		
Conductivity	1684	1190	1832	1880	1767	µs/cm		Field		

MAY 2020 ANALYTICAL REPORT

Analytical Results

TASK NO: 200504107

Report To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Bill To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Task No.: 200504107
Client PO:
Client Project: Mill Iron 2354-01

Date Received: 5/4/20
Date Reported: 5/26/20
Matrix: Water - Ground

Customer Sample ID MW-2

Sample Date/Time: 5/4/20 12:50 PM

Lab Number: 200504107-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
Bicarbonate	223.8 mg/L as CaCO ₃	SM 2320-B	0.1	5/5/20	DPL
Calcium as CaCO ₃	553.1 mg/L	EPA 200.7	0.1	5/7/20	MBN
Carbonate	< 0.1 mg/L as CaCO ₃	SM 2320-B	0.1	5/5/20	DPL
Hydroxide	< 0.1 mg/L as CaCO ₃	SM 2320-B	0.1	5/5/20	DPL
Langelier Index	0.60 units	SM 2330-B		5/11/20	SAN
pH	7.42 units	SM 4500-H-B	0.01	5/4/20	IPC
Temperature	20 °C	SM 4500-H-B	1	5/4/20	IPC
Total Alkalinity	223.8 mg/L as CaCO ₃	SM 2320-B	0.1	5/5/20	DPL
Total Dissolved Solids	1528 mg/L	SM 2540-C	5	5/8/20	ISG

Abbreviations/ References:

ML = Minimum Level = LRL = RL
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313
Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

Analytical Results

TASK NO: 200504107

Report To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Bill To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Task No.: 200504107

Client PO:

Client Project: Mill Iron 2354-01

Date Received: 5/4/20

Date Reported: 5/26/20

Matrix: Water - Ground

Customer Sample ID MW-3

Sample Date/Time: 5/4/20 11:35 AM

Lab Number: 200504107-02

Test	Result	Method	ML	Date Analyzed	Analyzed By
Bicarbonate	283.7 mg/L as CaCO ₃	SM 2320-B	0.1	5/5/20	DPL
Calcium as CaCO ₃	565.6 mg/L	EPA 200.7	0.1	5/7/20	MBN
Carbonate	< 0.1 mg/L as CaCO ₃	SM 2320-B	0.1	5/5/20	DPL
Hydroxide	< 0.1 mg/L as CaCO ₃	SM 2320-B	0.1	5/5/20	DPL
Langelier Index	0.53 units	SM 2330-B		5/11/20	SAN
pH	7.23 units	SM 4500-H-B	0.01	5/4/20	IPC
Temperature	20 °C	SM 4500-H-B	1	5/4/20	IPC
Total Alkalinity	283.7 mg/L as CaCO ₃	SM 2320-B	0.1	5/5/20	DPL
Total Dissolved Solids	1452 mg/L	SM 2540-C	5	5/8/20	ISG

Abbreviations/ References:

ML = Minimum Level = LRL = RL

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

Analytical Results

TASK NO: 200504107

Report To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Bill To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Task No.: 200504107
Client PO:
Client Project: Mill Iron 2354-01

Date Received: 5/4/20
Date Reported: 5/26/20
Matrix: Water - Ground

Customer Sample ID MW-18

Sample Date/Time: 5/4/20 3:45 PM

Lab Number: 200504107-03

Test	Result	Method	ML	Date Analyzed	Analyzed By
Bicarbonate	284.2 mg/L as CaCO ₃	SM 2320-B	0.1	5/5/20	DPL
Calcium as CaCO ₃	503.6 mg/L	EPA 200.7	0.1	5/7/20	MBN
Carbonate	< 0.1 mg/L as CaCO ₃	SM 2320-B	0.1	5/5/20	DPL
Hydroxide	< 0.1 mg/L as CaCO ₃	SM 2320-B	0.1	5/5/20	DPL
Langelier Index	0.43 units	SM 2330-B		5/11/20	SAN
pH	7.18 units	SM 4500-H-B	0.01	5/4/20	IPC
Temperature	20 °C	SM 4500-H-B	1	5/4/20	IPC
Total Alkalinity	284.2 mg/L as CaCO ₃	SM 2320-B	0.1	5/5/20	DPL
Total Dissolved Solids	1270 mg/L	SM 2540-C	5	5/8/20	ISG

Abbreviations/ References:

ML = Minimum Level = LRL = RL
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313
Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

Colorado Analytical Laboratories, Inc.

Commerce City Lab
10411 Heinz Way
Commerce City CO 80640
Lakewood Service Center
12860 W. Cedar Dr, 100A
Lakewood CO 80228
Phone: 303-659-2313
www.coloradolab.com

Page 4 of 6



LABORATORIES, INC.

CAL Task No.
200504107

Quotation for Analytical Services

Quote ID: QBO20040080

Prepared For: **Ag Professionals, LLC**
3050 67th Avenue, Suite 200

Quote Date: **Tuesday, April 28, 2020**
Turn Around Time: **10 Working Days**

Greeley, CO 80634

Attn: **Thad Miller**

Project:

Ground Water Samples

Matrix	Description	Method	Qty	Price - each	Total
Water - Ground	Langelier Index	N/A	3	\$57.00	\$171.00
Water - Ground	Alkalinity	SM 2320-B	3	Incl.	Incl.
Water - Ground	Ca as CaCO ₃	EPA 200.7	3	Incl.	Incl.
Water - Ground	Carb/ Bicarb	SM 2320-B	3	Incl.	Incl.
Water - Ground	Lang Index	SM 2330-B	3	Incl.	Incl.
Water - Ground	pH/ Temp	SM 4500-H-B	3	Incl.	Incl.
Water - Ground	TDS	SM 2540-C	3	Incl.	Incl.
Water - Ground	Cr - Tri	Calculation	3	Incl.	Incl.
Water - Ground	Nitrate/ Nitrite Nitrogen	Calculation	3	\$0.00	\$0.00
Water - Ground	B - Dis	EPA 200.7	3	\$0.00	\$0.00
Water - Ground	Fe - Dis	EPA 200.7	3	\$12.00	\$36.00
Water - Ground	Ag - Dis	EPA 200.8	3	\$12.00	\$36.00
Water - Ground	Al - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	As - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Ba - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Be - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Cd - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Co - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Cr - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Cu - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Mn - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Mo - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Ni - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Pb - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Sb - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Se - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Tl - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	V - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Zn - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Chloride	EPA 300.0	3	\$15.00	\$45.00
Water - Ground	Nitrate Nitrogen	EPA 300.0	3	\$17.00	\$51.00
			3	\$17.00	\$51.00



CAL Task No.
200504107

Quotation for Analytical Services

Quote ID: QBO20040080

LABORATORIES, INC.

Water - Ground	Nitrite Nitrogen	EPA 300.0	3	\$17.00	\$51.00
Water - Ground	Sulfate	EPA 300.0	3	\$17.00	\$51.00
Water - Ground	Fluoride	EPA 300.0	3	\$18.00	\$54.00
Water - Ground	U - Dis	EPA 200.8	3	\$22.00	\$66.00
Water - Ground	Hg	EPA 245.7	3	\$25.00	\$75.00
Water - Ground	Total Coliform	SM 9221-B	3	\$26.00	\$78.00
Water - Ground	Cr - Hex	SM 3500-Cr B	3	\$30.00	\$90.00
Water - Ground	Phenols	EPA 420.4	3	\$36.00	\$108.00
Water - Ground	Cyanide - Free	EPA 335.4	3	\$38.00	\$114.00
Water - Ground	Gross Alpha/Beta (Sub)	SM 7110-B	3	\$56.16	\$168.48
Water - Ground	625 SOC's (Sub)	EPA 625	3	\$195.00	\$585.00
Shipping	Sample Shipment to Outside Lab	UPS	2	\$30.00	\$60.00

\$2,655.48

Colorado Analytical Laboratory maintains certification by the Colorado Department of Health (CDPHE) and EPA Region 8 for Wyoming and Tribal Public Water Systems to analyze drinking water for organic contaminants (SOC's VOC's), inorganic contaminants (metals), nitrate nitrite, cyanide, fluoride and coliform bacteria.

Sub-Contract analysis pricing subject to change. Sub-Contract radiological analysis turn-around time is 4 to 8 weeks depending on sample matrix.

Billing terms are Net 30 on approved accounts, all other accounts are COD. Additional charges may apply for accelerated turn around.

We appreciate the opportunity to be of service to you. If you have questions please call us at 303-659-2313 or visit us at www.coloradolab.com



Hazen Research, Inc.
4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 279-4501
Fax: (303) 278-1528

Lab Control ID: 20M01770

Received: May 05, 2020

Reported: May 14, 2020

Purchase Order No.

None Received

Customer ID: 20040H

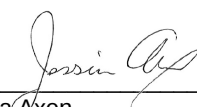
Account ID: Z01034

Stuart Nielson
Colorado Analytical Laboratories, Inc.
10411 Heinz Way
Commerce City, CO 80640

ANALYTICAL REPORT

*Report may only be copied in its entirety.
Results reported herein relate only to discrete samples
submitted by the client. Hazen Research, Inc. does not warrant
that the results are representative of anything other than the
samples that were received in the laboratory*

By: _____


Jessica Axen
Analytical Laboratories Director

Customer ID: 20040H
 Account ID: Z01034
ANALYTICAL REPORT

Stuart Nielson
 Colorado Analytical Laboratories, Inc.

Lab Sample ID			20M01770-001					
Customer Sample ID			200504107-01D - MW-2 sampled on 05/04/20 @ 1250					
Parameter	Units	Code	Result	Precision* +/-	Detection Limit	Method	Analysis Date / Time	Analyst
Gross Alpha	pCi/L	T	^ 110	29	0.2	SM 7110 B	5/11/20 @ 1432	SS
Gross Beta	pCi/L	T	^ 40	13	15.3	SM 7110 B	5/11/20 @ 1432	SS

Certification ID's: CO/EPA CO00008; CT PH-0152; KS E-10265; MI 9070; NJ CO008;
 NYSELAP (NELAC Certified) 11417; RI LAO00284; WI 998376610, TX T104704256-15-6

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

Codes: (T) = Total (D) = Dissolved (S) = Suspended (R) = Total Residual (AR) = As Received < = Less Than

^ Due to the large amount of total or dissolved solids in the sample, reduced aliquots were used for the gross alpha and beta analysis.



Hazen Research, Inc.
4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 279-4501
Fax: (303) 278-1528

Lab Control ID: 20M01770

Received: May 05, 2020

Reported: May 14, 2020

Purchase Order No.

None Received

Customer ID: 20040H

Account ID: Z01034

ANALYTICAL REPORT

Stuart Nielson

Colorado Analytical Laboratories, Inc.

Lab Sample ID			20M01770-002					
Customer Sample ID			200504107-02D - MW-3					
			sampled on 05/04/20 @ 1135					
			Precision*		Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	T	^ 110	33	0.3	SM 7110 B	5/11/20 @ 1438	SS
Gross Beta	pCi/L	T	^ 44	14	16.7	SM 7110 B	5/11/20 @ 1438	SS

Certification ID's: CO/EPA CO00008; CT PH-0152; KS E-10265; MI 9070; NJ CO008;
NYSELAP (NELAC Certified) 11417; RI LAO00284; WI 998376610, TX T104704256-15-6

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

Codes: (T) = Total (D) = Dissolved (S) = Suspended (R) = Total Residual (AR) = As Received < = Less Than

^ Due to the large amount of total or dissolved solids in the sample, reduced aliquots were used for the gross alpha and beta analysis.

Customer ID: 20040H
 Account ID: Z01034
ANALYTICAL REPORT

Stuart Nielson
 Colorado Analytical Laboratories, Inc.

Lab Sample ID			20M01770-003					
Customer Sample ID			200504107-03D - MW-18 sampled on 05/04/20 @ 1545					
Parameter	Units	Code	Result	Precision* +/-	Detection Limit	Method	Analysis Date / Time	Analyst
Gross Alpha	pCi/L	T	^ 170	43	0.3	SM 7110 B	5/11/20 @ 1444	SS
Gross Beta	pCi/L	T	^ 65	18	22.0	SM 7110 B	5/11/20 @ 1444	SS

Certification ID's: CO/EPA CO00008; CT PH-0152; KS E-10265; MI 9070; NJ CO008;
 NYSELAP (NELAC Certified) 11417; RI LAO00284; WI 998376610, TX T104704256-15-6

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

Codes: (T) = Total (D) = Dissolved (S) = Suspended (R) = Total Residual (AR) = As Received < = Less Than

^ Due to the large amount of total or dissolved solids in the sample, reduced aliquots were used for the gross alpha and beta analysis.

HAZEN RESEARCH, INC.
RADIOCHEMISTRY LABORATORY

Date: 05/11/2020

Batch QC Summary Form

Analyte: Gross Alpha

Control Standard/LFB: ID: C-11 pCi/mL: 57.4 (use 1 diluted)

Spike Solution: ID: C-11 pCi/mL: 57.4 (use 1 mL)

Spike Recovery Calculation: Sample: Tap*

$$\text{Calculation: } \frac{(60.0) - (1.000) - (0.0)}{57.4} \times 100 = 105\%$$

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 30 %	x		
Spike Recovery	70 - 130 %	x		
Blank	< or = 3 x Uncertainty	x		
Duplicate 1	95% confidence interval overlap	x		
Duplicate 2 *	95% confidence interval overlap			x

* Required for batch size greater than 10 samples.

Conclusions:

 x Batch QC Passes**
 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required: _____

Narrative:

**All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluated in this report.

Batch Listing by Lab Control Number:

20M01770	_____
20M01794	_____
20M01796	_____
20M01798	_____
20M01799	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Evaluator:

Gynnea Rockwell _____

05/13/2020

Date

HAZEN RESEARCH, INC.
RADIOCHEMISTRY LABORATORY

Date: 05/11/2020

Batch QC Summary Form

Analyte: Gross Beta

Control Standard/LFB: ID: C-11 pCi/mL: 44 (use 1 diluted)

Spike Solution: ID: C-11 pCi/mL: 44 (use 1 mL)

Spike Recovery Calculation: Sample: Tap*

$$\text{Calculation: } \frac{(38.4) (1.000) - (0.5) (0.200)}{44} \times 100 = 87\%$$

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 20 %	x		
Spike Recovery	80 - 120 %	x		
Blank	< or = 3 x Uncertainty	x		
Duplicate 1	95% confidence interval overlap	x		
Duplicate 2 *	95% confidence interval overlap			x

* Required for batch size greater than 10 samples.

Conclusions:

 x Batch QC Passes**
 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required: _____

Narrative:

**All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluated in this report.

Batch Listing by Lab Control Number:

20M01770	_____
20M01794	_____
20M01796	_____
20M01798	_____
20M01799	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Evaluator:

Gynnea Rockwell _____

05/13/2020

Date

Chain of Custody Form

20 m01770



Commerce City Lab
10411 Heinz Way
Commerce City CO 80640

Lakewood Service Center
12860 W. Cedar Dr, 100A
Lakewood CO 80228

Phone: 303-659-2313

www.coloradolab.com

Report To Information		Bill To Information (If different from report to)		Project Name / Number	
Company Name: <u>Colorado Analytical Labs</u>		Company Name: <u>Same</u>		<u>200504107</u>	
Contact Name: <u>Stuart Nielson</u>		Contact Name: _____		<u>Mill Iron</u>	
Address: <u>10411 Heinz Way</u>		Address: _____		Task Number (Lab Use Only) CAL Task No. 200504107	
City <u>Commerce City</u> State <u>CO</u> Zip <u>80640</u>		City _____ State _____ Zip _____			
Phone: <u>303-659-2313</u>		Phone: _____			
Email: <u>stuartnielson@coloradolab.com</u>		Email: _____			
Sample Collector: _____		PO No.: _____			
Sample Collector Phone: _____					

Sample Matrix (Select One Only)			No. of Containers	Grab or (Check One Only) Composite	Gross Alpha/Beta	Tests Requested															
Waste Water ☐	Soil ☐	Drinking Water ☐																			
Ground Water ☒	Sludge ☐																				
Surface Water ☐																					
Date	Time	Sample ID																			
5/4/20	1250	200504107-01D MW-2	1	☒	☐	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
5/4/20	1135	200504107-02D MW-3	1	☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
5/4/20	1545	200504107-03D MW-18	1	☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
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				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Instructions: Ship to Test Hazen			C/S Info:			Seals Present Yes ☐ No ☐			
FedEx 176386739169			Deliver Via: Fed Ex SD			C/S Charge ☐			
Relinquished By: <u>Elise Reed</u>		Date/Time: <u>5/5/20 0955</u>		Received By: <u>Jynnea Rockwell</u>		Date/Time: <u>5/5/20 1329</u>		Temp. °C/Ice _____	
								Sample Pres. Yes ☒ No ☐	
								Received By: _____	
								Date/Time: _____	

Analytical Results

TASK NO: 200504107

Report To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Bill To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Task No.: 200504107
Client PO:
Client Project: Mill Iron 2354-01

Date Received: 5/4/20
Date Reported: 5/26/20
Matrix: Water - Ground

Customer Sample ID MW-2

Sample Date/Time: 5/4/20 12:50 PM

Lab Number: 200504107-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
Chloride	61.78 mg/L	EPA 300.0	0.01 mg/L	5/5/20	MAT
Chromium - Hexavalent	< 0.01 mg/L	SM 3500-Cr B	0.01 mg/L	5/9/20	MAT
Cyanide-Free	< 0.005 mg/L	EPA 335.4	0.005 mg/L	5/9/20	CES
Fluoride	0.63 mg/L	EPA 300.0	0.09 mg/L	5/5/20	MAT
Nitrate Nitrogen	20.87 mg/L	EPA 300.0	0.05 mg/L	5/5/20	MAT
Nitrate/ Nitrite Nitrogen	20.87 mg/L	Calculation	0.05 mg/L	5/7/20	MAT
Nitrite Nitrogen	< 0.03 mg/L	EPA 300.0	0.03 mg/L	5/5/20	MAT
Phenols - Total	< 15.0 ug/L	EPA 420.4	15.0 ug/L	5/8/20	JTF
Sulfate	716.45 mg/L	EPA 300.0	0.01 mg/L	5/5/20	MAT
Total Coliform	34 mpn/100ml	SM 9221-B	1 mpn/100ml	5/5/20	MBN
Dissolved					
Aluminum	0.006 mg/L	EPA 200.8	0.001 mg/L	5/6/20	IPC
Antimony	< 0.0012 mg/L	EPA 200.8	0.0012 mg/L	5/6/20	IPC
Arsenic	0.0010 mg/L	EPA 200.8	0.0006 mg/L	5/6/20	IPC
Barium	0.0253 mg/L	EPA 200.8	0.0007 mg/L	5/6/20	IPC
Beryllium	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	5/6/20	IPC
Boron	0.39 mg/L	EPA 200.7	0.01 mg/L	5/7/20	MBN
Cadmium	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	5/6/20	IPC
Chromium	< 0.0015 mg/L	EPA 200.8	0.0015 mg/L	5/6/20	IPC
Chromium - Trivalent	< 0.01 mg/L	Calculation	0.01 mg/L	5/9/20	IPC
Cobalt	< 0.0002 mg/L	EPA 200.8	0.0002 mg/L	5/6/20	IPC

Abbreviations/ References:

ML = Minimum Level = LRL = RL
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313
Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

Analytical Results

TASK NO: 200504107

Report To: Thad Miller

Company: Ag Professionals, LLC

3050 67th Avenue, Suite 200
Greeley CO 80634

Bill To: Thad Miller

Company: Ag Professionals, LLC

3050 67th Avenue, Suite 200
Greeley CO 80634

Task No.: 200504107
Client PO:
Client Project: Mill Iron 2354-01

Date Received: 5/4/20
Date Reported: 5/26/20
Matrix: Water - Ground

Customer Sample ID MW-2

Sample Date/Time: 5/4/20 12:50 PM

Lab Number: 200504107-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
<u>Dissolved</u>					
Copper	0.0011 mg/L	EPA 200.8	0.0008 mg/L	5/6/20	IPC
Iron	0.008 mg/L	EPA 200.7	0.005 mg/L	5/7/20	MBN
Lead	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	5/6/20	IPC
Manganese	< 0.0008 mg/L	EPA 200.8	0.0008 mg/L	5/6/20	IPC
Mercury	< 0.0002 mg/L	EPA 245.7	0.0002 mg/L	5/6/20	JTF
Molybdenum	0.0070 mg/L	EPA 200.8	0.0005 mg/L	5/6/20	IPC
Nickel	< 0.0009 mg/L	EPA 200.8	0.0009 mg/L	5/6/20	IPC
Selenium	0.0079 mg/L	EPA 200.8	0.0008 mg/L	5/6/20	IPC
Silver	< 0.0005 mg/L	EPA 200.8	0.0005 mg/L	5/6/20	IPC
Thallium	< 0.0002 mg/L	EPA 200.8	0.0002 mg/L	5/6/20	IPC
Uranium	0.0534 mg/L	EPA 200.8	0.0002 mg/L	5/6/20	IPC
Vanadium	0.001 mg/L	EPA 200.8	0.001 mg/L	5/6/20	IPC
Zinc	< 0.001 mg/L	EPA 200.8	0.001 mg/L	5/6/20	IPC

Abbreviations/ References:

ML = Minimum Level = LRL = RL
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313
Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

Analytical Results

TASK NO: 200504107

Report To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Bill To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Task No.: 200504107
Client PO:
Client Project: Mill Iron 2354-01

Date Received: 5/4/20
Date Reported: 5/26/20
Matrix: Water - Ground

Customer Sample ID MW-3

Sample Date/Time: 5/4/20 11:35 AM

Lab Number: 200504107-02

Test	Result	Method	ML	Date Analyzed	Analyzed By
Chloride	51.27 mg/L	EPA 300.0	0.01 mg/L	5/5/20	MAT
Chromium - Hexavalent	< 0.01 mg/L	SM 3500-Cr B	0.01 mg/L	5/9/20	MAT
Cyanide-Free	< 0.005 mg/L	EPA 335.4	0.005 mg/L	5/9/20	CES
Fluoride	0.52 mg/L	EPA 300.0	0.09 mg/L	5/5/20	MAT
Nitrate Nitrogen	21.10 mg/L	EPA 300.0	0.05 mg/L	5/5/20	MAT
Nitrate/ Nitrite Nitrogen	21.10 mg/L	Calculation	0.05 mg/L	5/7/20	MAT
Nitrite Nitrogen	< 0.03 mg/L	EPA 300.0	0.03 mg/L	5/5/20	MAT
Phenols - Total	< 15.0 ug/L	EPA 420.4	15.0 ug/L	5/8/20	JTF
Sulfate	627.68 mg/L	EPA 300.0	0.01 mg/L	5/5/20	MAT
Total Coliform	582 mpn/100ml	SM 9221-B	1 mpn/100ml	5/5/20	MBN

Dissolved

Aluminum	0.002 mg/L	EPA 200.8	0.001 mg/L	5/6/20	IPC
Antimony	< 0.0012 mg/L	EPA 200.8	0.0012 mg/L	5/6/20	IPC
Arsenic	0.0007 mg/L	EPA 200.8	0.0006 mg/L	5/6/20	IPC
Barium	0.0167 mg/L	EPA 200.8	0.0007 mg/L	5/6/20	IPC
Beryllium	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	5/6/20	IPC
Boron	0.33 mg/L	EPA 200.7	0.01 mg/L	5/7/20	MBN
Cadmium	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	5/6/20	IPC
Chromium	< 0.0015 mg/L	EPA 200.8	0.0015 mg/L	5/6/20	IPC
Chromium - Trivalent	< 0.01 mg/L	Calculation	0.01 mg/L	5/9/20	IPC
Cobalt	< 0.0002 mg/L	EPA 200.8	0.0002 mg/L	5/6/20	IPC

Abbreviations/ References:

ML = Minimum Level = LRL = RL
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313
Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

Analytical Results

TASK NO: 200504107

Report To: Thad Miller

Company: Ag Professionals, LLC

3050 67th Avenue, Suite 200

Greeley CO 80634

Bill To: Thad Miller

Company: Ag Professionals, LLC

3050 67th Avenue, Suite 200

Greeley CO 80634

Task No.: 200504107
Client PO:
Client Project: Mill Iron 2354-01

Date Received: 5/4/20
Date Reported: 5/26/20
Matrix: Water - Ground

Customer Sample ID MW-3

Sample Date/Time: 5/4/20 11:35 AM

Lab Number: 200504107-02

Test	Result	Method	ML	Date Analyzed	Analyzed By
<u>Dissolved</u>					
Copper	< 0.0008 mg/L	EPA 200.8	0.0008 mg/L	5/6/20	IPC
Iron	< 0.005 mg/L	EPA 200.7	0.005 mg/L	5/7/20	MBN
Lead	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	5/6/20	IPC
Manganese	0.0014 mg/L	EPA 200.8	0.0008 mg/L	5/6/20	IPC
Mercury	< 0.0002 mg/L	EPA 245.7	0.0002 mg/L	5/6/20	JTF
Molybdenum	0.0023 mg/L	EPA 200.8	0.0005 mg/L	5/6/20	IPC
Nickel	< 0.0009 mg/L	EPA 200.8	0.0009 mg/L	5/6/20	IPC
Selenium	0.0068 mg/L	EPA 200.8	0.0008 mg/L	5/6/20	IPC
Silver	< 0.0005 mg/L	EPA 200.8	0.0005 mg/L	5/6/20	IPC
Thallium	< 0.0002 mg/L	EPA 200.8	0.0002 mg/L	5/6/20	IPC
Uranium	0.0594 mg/L	EPA 200.8	0.0002 mg/L	5/6/20	IPC
Vanadium	0.001 mg/L	EPA 200.8	0.001 mg/L	5/6/20	IPC
Zinc	0.001 mg/L	EPA 200.8	0.001 mg/L	5/6/20	IPC

Abbreviations/ References:

ML = Minimum Level = LRL = RL

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed



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10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313

Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

Analytical Results

TASK NO: 200504107

Report To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Bill To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Task No.: 200504107
Client PO:
Client Project: Mill Iron 2354-01

Date Received: 5/4/20
Date Reported: 5/26/20
Matrix: Water - Ground

Customer Sample ID MW-18

Sample Date/Time: 5/4/20 3:45 PM

Lab Number: 200504107-03

Test	Result	Method	ML	Date Analyzed	Analyzed By
Chloride	47.38 mg/L	EPA 300.0	0.01 mg/L	5/5/20	MAT
Chromium - Hexavalent	< 0.01 mg/L	SM 3500-Cr B	0.01 mg/L	5/9/20	MAT
Cyanide-Free	< 0.005 mg/L	EPA 335.4	0.005 mg/L	5/9/20	CES
Fluoride	0.46 mg/L	EPA 300.0	0.09 mg/L	5/5/20	MAT
Nitrate Nitrogen	20.94 mg/L	EPA 300.0	0.05 mg/L	5/5/20	MAT
Nitrate/ Nitrite Nitrogen	20.94 mg/L	Calculation	0.05 mg/L	5/7/20	MAT
Nitrite Nitrogen	< 0.03 mg/L	EPA 300.0	0.03 mg/L	5/5/20	MAT
Phenols - Total	< 15.0 ug/L	EPA 420.4	15.0 ug/L	5/8/20	JTF
Sulfate	534.16 mg/L	EPA 300.0	0.01 mg/L	5/5/20	MAT
Total Coliform	2 mpn/100ml	SM 9221-B	1 mpn/100ml	5/5/20	MBN
Dissolved					
Aluminum	0.047 mg/L	EPA 200.8	0.001 mg/L	5/6/20	IPC
Antimony	< 0.0012 mg/L	EPA 200.8	0.0012 mg/L	5/6/20	IPC
Arsenic	0.0008 mg/L	EPA 200.8	0.0006 mg/L	5/6/20	IPC
Barium	0.0262 mg/L	EPA 200.8	0.0007 mg/L	5/6/20	IPC
Beryllium	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	5/6/20	IPC
Boron	0.34 mg/L	EPA 200.7	0.01 mg/L	5/7/20	MBN
Cadmium	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	5/6/20	IPC
Chromium	< 0.0015 mg/L	EPA 200.8	0.0015 mg/L	5/6/20	IPC
Chromium - Trivalent	< 0.01 mg/L	Calculation	0.01 mg/L	5/9/20	IPC
Cobalt	< 0.0002 mg/L	EPA 200.8	0.0002 mg/L	5/6/20	IPC

Abbreviations/ References:

ML = Minimum Level = LRL = RL
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313
Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

Analytical Results

TASK NO: 200504107

Report To: Thad Miller

Company: Ag Professionals, LLC

3050 67th Avenue, Suite 200
Greeley CO 80634

Bill To: Thad Miller

Company: Ag Professionals, LLC

3050 67th Avenue, Suite 200
Greeley CO 80634

Task No.: 200504107
Client PO:
Client Project: Mill Iron 2354-01

Date Received: 5/4/20
Date Reported: 5/26/20
Matrix: Water - Ground

Customer Sample ID MW-18

Sample Date/Time: 5/4/20 3:45 PM

Lab Number: 200504107-03

Test	Result	Method	ML	Date Analyzed	Analyzed By
<u>Dissolved</u>					
Copper	0.0009 mg/L	EPA 200.8	0.0008 mg/L	5/6/20	IPC
Iron	0.008 mg/L	EPA 200.7	0.005 mg/L	5/7/20	MBN
Lead	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	5/6/20	IPC
Manganese	0.0019 mg/L	EPA 200.8	0.0008 mg/L	5/6/20	IPC
Mercury	< 0.0002 mg/L	EPA 245.7	0.0002 mg/L	5/6/20	JTF
Molybdenum	0.0014 mg/L	EPA 200.8	0.0005 mg/L	5/6/20	IPC
Nickel	0.0010 mg/L	EPA 200.8	0.0009 mg/L	5/6/20	IPC
Selenium	0.0062 mg/L	EPA 200.8	0.0008 mg/L	5/6/20	IPC
Silver	< 0.0005 mg/L	EPA 200.8	0.0005 mg/L	5/6/20	IPC
Thallium	< 0.0002 mg/L	EPA 200.8	0.0002 mg/L	5/6/20	IPC
Uranium	0.0377 mg/L	EPA 200.8	0.0002 mg/L	5/6/20	IPC
Vanadium	0.002 mg/L	EPA 200.8	0.001 mg/L	5/6/20	IPC
Zinc	< 0.001 mg/L	EPA 200.8	0.001 mg/L	5/6/20	IPC

Abbreviations/ References:

ML = Minimum Level = LRL = RL

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313

Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

Colorado
Analytical
LABORATORIES, INC.

Commerce City Lab
10411 Heinz Way
Commerce City CO 80640

Lakewood Service Center
12860 W. Cedar Dr, 100A
Lakewood CO 80228

Phone: 303-659-2313

www.coloradolab.com

Page 7 of 9

Quotation for Analytical Services

Quote ID: QBO20040080

Prepared For: **Ag Professionals, LLC**
3050 67th Avenue, Suite 200

Quote Date: **Tuesday, April 28, 2020**
Turn Around Time: **10 Working Days**

Greeley, CO 80634

Attn: **Thad Miller**

Project:

Ground Water Samples

Matrix	Description	Method	Qty	Price - each	Total
Water - Ground	Langelier Index	N/A	3	\$57.00	\$171.00
Water - Ground	Alkalinity	SM 2320-B	3	Incl.	Incl.
Water - Ground	Ca as CaCO ₃	EPA 200.7	3	Incl.	Incl.
Water - Ground	Carb/ Bicarb	SM 2320-B	3	Incl.	Incl.
Water - Ground	Lang Index	SM 2330-B	3	Incl.	Incl.
Water - Ground	pH/ Temp	SM 4500-H-B	3	Incl.	Incl.
Water - Ground	TDS	SM 2540-C	3	Incl.	Incl.
Water - Ground	Cr - Tri	Calculation	3	\$0.00	\$0.00
Water - Ground	Nitrate/ Nitrite Nitrogen	Calculation	3	\$0.00	\$0.00
Water - Ground	B - Dis	EPA 200.7	3	\$12.00	\$36.00
Water - Ground	Fe - Dis	EPA 200.7	3	\$12.00	\$36.00
Water - Ground	Ag - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Al - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	As - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Ba - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Be - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Cd - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Co - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Cr - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Cu - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Mn - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Mo - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Ni - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Pb - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Sb - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Se - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Tl - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	V - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Zn - Dis	EPA 200.8	3	\$15.00	\$45.00
Water - Ground	Chloride	EPA 300.0	3	\$17.00	\$51.00
Water - Ground	Nitrate Nitrogen	EPA 300.0	3	\$17.00	\$51.00



CAL Task No.
200504107

Quotation for Analytical Services

Quote ID: QBO20040080

LABORATORIES, INC.

Water - Ground	Nitrite Nitrogen	EPA 300.0	3	\$17.00	\$51.00
Water - Ground	Sulfate	EPA 300.0	3	\$17.00	\$51.00
Water - Ground	Fluoride	EPA 300.0	3	\$18.00	\$54.00
Water - Ground	U - Dis	EPA 200.8	3	\$22.00	\$66.00
Water - Ground	Hg	EPA 245.7	3	\$25.00	\$75.00
Water - Ground	Total Coliform	SM 9221-B	3	\$26.00	\$78.00
Water - Ground	Cr - Hex	SM 3500-Cr B	3	\$30.00	\$90.00
Water - Ground	Phenols	EPA 420.4	3	\$36.00	\$108.00
Water - Ground	Cyanide - Free	EPA 335.4	3	\$38.00	\$114.00
Water - Ground	Gross Alpha/Beta (Sub)	SM 7110-B	3	\$56.16	\$168.48
Water - Ground	625 SOC's (Sub)	EPA 625	3	\$195.00	\$585.00
Shipping	Sample Shipment to Outside Lab	UPS	2	\$30.00	\$60.00

\$2,655.48

Colorado Analytical Laboratory maintains certification by the Colorado Department of Health (CDPHE) and EPA Region 8 for Wyoming and Tribal Public Water Systems to analyze drinking water for organic contaminants (SOC's VOC's), inorganic contaminants (metals), nitrate nitrite, cyanide, fluoride and coliform bacteria.

Sub-Contract analysis pricing subject to change. Sub-Contract radiological analysis turn-around time is 4 to 8 weeks depending on sample matrix.

Billing terms are Net 30 on approved accounts, all other accounts are COD. Additional charges may apply for accelerated turn around.

We appreciate the opportunity to be of service to you. If you have questions please call us at 303-659-2313 or visit us at www.coloradolab.com

ANALYTICAL REPORT

Eurofins TestAmerica, Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

Laboratory Job ID: 280-136213-1
Laboratory Sample Delivery Group: 200504107
Client Project/Site: Mill Iron

For:
Colorado Analytical Laboratories Inc
10411 Heinz Way
Commere City, Colorado 80640

Attn: Mr. Stuart Nielson

Elizabeth M. Hoerchler

Authorized for release by:
5/22/2020 2:09:25 PM
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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Colorado Analytical Laboratories Inc
Project/Site: Mill Iron

Job ID: 280-136213-1
SDG: 200504107

Job ID: 280-136213-1

Laboratory: Eurofins TestAmerica, Denver

Narrative

CASE NARRATIVE

Client: Colorado Analytical Laboratories Inc

Project: Mill Iron

Report Number: 280-136213-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 05/05/2020; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.3° C.

Receipt Exceptions

The cooler did not have a custody seal on it at the time of receipt. 200504107-01E MW-2 (280-136213-1), 200504107-02E MW-3 (280-136213-2) and 200504107-03E MW-18 (280-136213-3)

The field sampler's name is not listed on the Chain of Custody. 200504107-01E MW-2 (280-136213-1), 200504107-02E MW-3 (280-136213-2) and 200504107-03E MW-18 (280-136213-3)

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples 200504107-01E MW-2 (280-136213-1), 200504107-02E MW-3 (280-136213-2) and 200504107-03E MW-18 (280-136213-3) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA Method 625. The samples were prepared on 05/06/2020 and analyzed on 05/11/2020 and 05/12/2020.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-493848. 200504107-01E MW-2 (280-136213-1), 200504107-02E MW-3 (280-136213-2) and 200504107-03E MW-18 (280-136213-3)

The continuing calibration verification (CCV) associated with batch 280-494379 recovered above the upper control limit (limit +20%D) for the following surrogates: 2-Fluorophenol (+21.9%D) and 2,4,6-Tribromophenol (+22.9%D). The samples associated with this CCV recovered within the control limits for all surrogates. The associated samples are impacted: 200504107-01E MW-2 (280-136213-1), 200504107-02E MW-3 (280-136213-2), 200504107-03E MW-18 (280-136213-3) and (CCV 280-494379/3).

The continuing calibration verification (CCV) associated with batch 280-494379 recovered above the upper control limit (limit +20%D) for N-Nitrosodimethylamine (+21.7%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: 200504107-01E MW-2 (280-136213-1), 200504107-02E MW-3 (280-136213-2), 200504107-03E MW-18 (280-136213-3) and (CCV 280-494379/3).

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 280-493848 and analytical batch 280-494379 recovered below the control limits for the following analytes: 1,2,4-Trichlorobenzene and Hexachloroethane. The LCS/LCSD %RPD for both analytes were in control.

Case Narrative

Client: Colorado Analytical Laboratories Inc
Project/Site: Mill Iron

Job ID: 280-136213-1
SDG: 200504107

Job ID: 280-136213-1 (Continued)

Laboratory: Eurofins TestAmerica, Denver (Continued)

LCS: Hexachloroethane: 35% (limit 40-113%)

LCSD: Hexachloroethane: 34% (limit 40-113%)
1,2,4-Trichlorobenzene: 37% (limit 44-142%)

Associated samples: 200504107-01E MW-2 (280-136213-1), 200504107-02E MW-3 (280-136213-2), 200504107-03E MW-18 (280-136213-3), (LCS 280-493848/2-A) and (LCSD 280-493848/3-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Colorado Analytical Laboratories Inc
Project/Site: Mill Iron

Job ID: 280-136213-1
SDG: 200504107

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: Colorado Analytical Laboratories Inc
Project/Site: Mill Iron

Job ID: 280-136213-1
SDG: 200504107

Client Sample ID: 200504107-01E MW-2

Lab Sample ID: 280-136213-1

☐ No Detections.

Client Sample ID: 200504107-02E MW-3

Lab Sample ID: 280-136213-2

☐ No Detections.

Client Sample ID: 200504107-03E MW-18

Lab Sample ID: 280-136213-3

☐ No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Method Summary

Client: Colorado Analytical Laboratories Inc
Project/Site: Mill Iron

Job ID: 280-136213-1
SDG: 200504107

Method	Method Description	Protocol	Laboratory
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL DEN
625	Liquid-Liquid Extraction	40CFR136A	TAL DEN

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Colorado Analytical Laboratories Inc
Project/Site: Mill Iron

Job ID: 280-136213-1
SDG: 200504107

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
280-136213-1	200504107-01E MW-2	Water	05/04/20 12:50	05/05/20 15:45	
280-136213-2	200504107-02E MW-3	Water	05/04/20 11:35	05/05/20 15:45	
280-136213-3	200504107-03E MW-18	Water	05/04/20 15:45	05/05/20 15:45	

Client Sample Results

Client: Colorado Analytical Laboratories Inc
Project/Site: Mill Iron

Job ID: 280-136213-1
SDG: 200504107

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: 200504107-01E MW-2

Date Collected: 05/04/20 12:50

Date Received: 05/05/20 15:45

Lab Sample ID: 280-136213-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		9.7	0.27	ug/L		05/06/20 08:43	05/11/20 23:23	1
Benzidine	ND		150	49	ug/L		05/06/20 08:43	05/11/20 23:23	1
1,2,4-Trichlorobenzene	ND	*	9.7	0.57	ug/L		05/06/20 08:43	05/11/20 23:23	1
Hexachlorobenzene	ND		9.7	0.64	ug/L		05/06/20 08:43	05/11/20 23:23	1
Bis(2-chloroethyl)ether	ND		9.7	0.81	ug/L		05/06/20 08:43	05/11/20 23:23	1
2-Chloronaphthalene	ND		9.7	0.25	ug/L		05/06/20 08:43	05/11/20 23:23	1
2-Chlorophenol	ND		9.7	1.9	ug/L		05/06/20 08:43	05/11/20 23:23	1
2-Methylphenol	ND		9.7	0.95	ug/L		05/06/20 08:43	05/11/20 23:23	1
2,4,6-Trichlorophenol	ND		19	0.28	ug/L		05/06/20 08:43	05/11/20 23:23	1
3,3'-Dichlorobenzidine	ND		49	1.9	ug/L		05/06/20 08:43	05/11/20 23:23	1
Hexachloroethane	ND	*	9.7	0.96	ug/L		05/06/20 08:43	05/11/20 23:23	1
2,4-Dichlorophenol	ND		9.7	0.62	ug/L		05/06/20 08:43	05/11/20 23:23	1
2,4-Dimethylphenol	ND		9.7	0.56	ug/L		05/06/20 08:43	05/11/20 23:23	1
2,4-Dinitrotoluene	ND		9.7	1.6	ug/L		05/06/20 08:43	05/11/20 23:23	1
2,6-Dinitrotoluene	ND		9.7	1.8	ug/L		05/06/20 08:43	05/11/20 23:23	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		9.7	0.22	ug/L		05/06/20 08:43	05/11/20 23:23	1
Fluoranthene	ND		9.7	0.19	ug/L		05/06/20 08:43	05/11/20 23:23	1
4-Bromophenyl phenyl ether	ND		9.7	0.42	ug/L		05/06/20 08:43	05/11/20 23:23	1
4-Chlorophenyl phenyl ether	ND		9.7	1.6	ug/L		05/06/20 08:43	05/11/20 23:23	1
bis(1-chloroispropyl)ether	ND		9.7	0.27	ug/L		05/06/20 08:43	05/11/20 23:23	1
Bis(2-chloroethoxy)methane	ND		9.7	0.94	ug/L		05/06/20 08:43	05/11/20 23:23	1
Hexachlorobutadiene	ND		9.7	3.2	ug/L		05/06/20 08:43	05/11/20 23:23	1
Hexachlorocyclopentadiene	ND		49	3.0	ug/L		05/06/20 08:43	05/11/20 23:23	1
Isophorone	ND		9.7	0.20	ug/L		05/06/20 08:43	05/11/20 23:23	1
Naphthalene	ND		9.7	0.28	ug/L		05/06/20 08:43	05/11/20 23:23	1
Nitrobenzene	ND		9.7	0.79	ug/L		05/06/20 08:43	05/11/20 23:23	1
2-Nitrophenol	ND		19	0.38	ug/L		05/06/20 08:43	05/11/20 23:23	1
2,4-Dinitrophenol	ND		58	9.7	ug/L		05/06/20 08:43	05/11/20 23:23	1
4-Nitrophenol	ND		49	1.2	ug/L		05/06/20 08:43	05/11/20 23:23	1
4,6-Dinitro-2-methylphenol	ND		58	3.9	ug/L		05/06/20 08:43	05/11/20 23:23	1
N-Nitrosodimethylamine	ND		9.7	0.28	ug/L		05/06/20 08:43	05/11/20 23:23	1
N-Nitrosodi-n-propylamine	ND		9.7	0.34	ug/L		05/06/20 08:43	05/11/20 23:23	1
N-Nitrosodiphenylamine	ND		9.7	0.43	ug/L		05/06/20 08:43	05/11/20 23:23	1
Pentachlorophenol	ND		58	19	ug/L		05/06/20 08:43	05/11/20 23:23	1
Phenol	ND		9.7	1.9	ug/L		05/06/20 08:43	05/11/20 23:23	1
Bis(2-ethylhexyl) phthalate	ND		9.7	0.54	ug/L		05/06/20 08:43	05/11/20 23:23	1
Butyl benzyl phthalate	ND		9.7	0.97	ug/L		05/06/20 08:43	05/11/20 23:23	1
Di-n-butyl phthalate	ND		9.7	1.1	ug/L		05/06/20 08:43	05/11/20 23:23	1
Di-n-octyl phthalate	ND		9.7	0.34	ug/L		05/06/20 08:43	05/11/20 23:23	1
Diethyl phthalate	ND		9.7	0.37	ug/L		05/06/20 08:43	05/11/20 23:23	1
Dimethyl phthalate	ND		9.7	0.20	ug/L		05/06/20 08:43	05/11/20 23:23	1
Benzo[a]anthracene	ND		9.7	0.34	ug/L		05/06/20 08:43	05/11/20 23:23	1
Benzo[a]pyrene	ND		9.7	0.30	ug/L		05/06/20 08:43	05/11/20 23:23	1
Benzo[b]fluoranthene	ND		9.7	0.52	ug/L		05/06/20 08:43	05/11/20 23:23	1
Benzo[k]fluoranthene	ND		9.7	0.45	ug/L		05/06/20 08:43	05/11/20 23:23	1
Anthracene	ND		9.7	0.41	ug/L		05/06/20 08:43	05/11/20 23:23	1
Acenaphthylene	ND		9.7	0.48	ug/L		05/06/20 08:43	05/11/20 23:23	1
Chrysene	ND		9.7	0.52	ug/L		05/06/20 08:43	05/11/20 23:23	1
Benzo[g,h,i]perylene	ND		9.7	0.49	ug/L		05/06/20 08:43	05/11/20 23:23	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Colorado Analytical Laboratories Inc
Project/Site: Mill Iron

Job ID: 280-136213-1
SDG: 200504107

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: 200504107-01E MW-2

Date Collected: 05/04/20 12:50

Date Received: 05/05/20 15:45

Lab Sample ID: 280-136213-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		9.7	0.30	ug/L		05/06/20 08:43	05/11/20 23:23	1
Phenanthrene	ND		9.7	0.25	ug/L		05/06/20 08:43	05/11/20 23:23	1
Dibenz(a,h)anthracene	ND		9.7	0.50	ug/L		05/06/20 08:43	05/11/20 23:23	1
Indeno[1,2,3-cd]pyrene	ND		9.7	0.63	ug/L		05/06/20 08:43	05/11/20 23:23	1
Pyrene	ND		9.7	0.36	ug/L		05/06/20 08:43	05/11/20 23:23	1
3 & 4 Methylphenol	ND		9.7	0.78	ug/L		05/06/20 08:43	05/11/20 23:23	1
4-Chloro-3-methylphenol	ND		9.7	2.3	ug/L		05/06/20 08:43	05/11/20 23:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		43 - 120	05/06/20 08:43	05/11/20 23:23	1
2-Fluorophenol	90		16 - 136	05/06/20 08:43	05/11/20 23:23	1
2,4,6-Tribromophenol	95		16 - 147	05/06/20 08:43	05/11/20 23:23	1
Nitrobenzene-d5	99		52 - 120	05/06/20 08:43	05/11/20 23:23	1
Phenol-d5	91		11 - 145	05/06/20 08:43	05/11/20 23:23	1
Terphenyl-d14	64		10 - 145	05/06/20 08:43	05/11/20 23:23	1

Client Sample ID: 200504107-02E MW-3

Date Collected: 05/04/20 11:35

Date Received: 05/05/20 15:45

Lab Sample ID: 280-136213-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		9.4	0.26	ug/L		05/06/20 08:43	05/11/20 23:52	1
Benzidine	ND		140	47	ug/L		05/06/20 08:43	05/11/20 23:52	1
1,2,4-Trichlorobenzene	ND	*	9.4	0.55	ug/L		05/06/20 08:43	05/11/20 23:52	1
Hexachlorobenzene	ND		9.4	0.62	ug/L		05/06/20 08:43	05/11/20 23:52	1
Bis(2-chloroethyl)ether	ND		9.4	0.78	ug/L		05/06/20 08:43	05/11/20 23:52	1
2-Chloronaphthalene	ND		9.4	0.24	ug/L		05/06/20 08:43	05/11/20 23:52	1
2-Chlorophenol	ND		9.4	1.9	ug/L		05/06/20 08:43	05/11/20 23:52	1
2-Methylphenol	ND		9.4	0.92	ug/L		05/06/20 08:43	05/11/20 23:52	1
2,4,6-Trichlorophenol	ND		19	0.27	ug/L		05/06/20 08:43	05/11/20 23:52	1
3,3'-Dichlorobenzidine	ND		47	1.9	ug/L		05/06/20 08:43	05/11/20 23:52	1
Hexachloroethane	ND	*	9.4	0.92	ug/L		05/06/20 08:43	05/11/20 23:52	1
2,4-Dichlorophenol	ND		9.4	0.60	ug/L		05/06/20 08:43	05/11/20 23:52	1
2,4-Dimethylphenol	ND		9.4	0.55	ug/L		05/06/20 08:43	05/11/20 23:52	1
2,4-Dinitrotoluene	ND		9.4	1.6	ug/L		05/06/20 08:43	05/11/20 23:52	1
2,6-Dinitrotoluene	ND		9.4	1.8	ug/L		05/06/20 08:43	05/11/20 23:52	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		9.4	0.22	ug/L		05/06/20 08:43	05/11/20 23:52	1
Fluoranthene	ND		9.4	0.19	ug/L		05/06/20 08:43	05/11/20 23:52	1
4-Bromophenyl phenyl ether	ND		9.4	0.40	ug/L		05/06/20 08:43	05/11/20 23:52	1
4-Chlorophenyl phenyl ether	ND		9.4	1.6	ug/L		05/06/20 08:43	05/11/20 23:52	1
bis(1-chloroisopropyl)ether	ND		9.4	0.26	ug/L		05/06/20 08:43	05/11/20 23:52	1
Bis(2-chloroethoxy)methane	ND		9.4	0.91	ug/L		05/06/20 08:43	05/11/20 23:52	1
Hexachlorobutadiene	ND		9.4	3.1	ug/L		05/06/20 08:43	05/11/20 23:52	1
Hexachlorocyclopentadiene	ND		47	2.9	ug/L		05/06/20 08:43	05/11/20 23:52	1
Isophorone	ND		9.4	0.20	ug/L		05/06/20 08:43	05/11/20 23:52	1
Naphthalene	ND		9.4	0.27	ug/L		05/06/20 08:43	05/11/20 23:52	1
Nitrobenzene	ND		9.4	0.76	ug/L		05/06/20 08:43	05/11/20 23:52	1
2-Nitrophenol	ND		19	0.37	ug/L		05/06/20 08:43	05/11/20 23:52	1
2,4-Dinitrophenol	ND		56	9.4	ug/L		05/06/20 08:43	05/11/20 23:52	1
4-Nitrophenol	ND		47	1.2	ug/L		05/06/20 08:43	05/11/20 23:52	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Colorado Analytical Laboratories Inc
Project/Site: Mill Iron

Job ID: 280-136213-1
SDG: 200504107

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: 200504107-02E MW-3

Date Collected: 05/04/20 11:35

Date Received: 05/05/20 15:45

Lab Sample ID: 280-136213-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		56	3.8	ug/L		05/06/20 08:43	05/11/20 23:52	1
N-Nitrosodimethylamine	ND		9.4	0.27	ug/L		05/06/20 08:43	05/11/20 23:52	1
N-Nitrosodi-n-propylamine	ND		9.4	0.33	ug/L		05/06/20 08:43	05/11/20 23:52	1
N-Nitrosodiphenylamine	ND		9.4	0.41	ug/L		05/06/20 08:43	05/11/20 23:52	1
Pentachlorophenol	ND		56	19	ug/L		05/06/20 08:43	05/11/20 23:52	1
Phenol	ND		9.4	1.9	ug/L		05/06/20 08:43	05/11/20 23:52	1
Bis(2-ethylhexyl) phthalate	ND		9.4	0.53	ug/L		05/06/20 08:43	05/11/20 23:52	1
Butyl benzyl phthalate	ND		9.4	0.94	ug/L		05/06/20 08:43	05/11/20 23:52	1
Di-n-butyl phthalate	ND		9.4	1.1	ug/L		05/06/20 08:43	05/11/20 23:52	1
Di-n-octyl phthalate	ND		9.4	0.33	ug/L		05/06/20 08:43	05/11/20 23:52	1
Diethyl phthalate	ND		9.4	0.36	ug/L		05/06/20 08:43	05/11/20 23:52	1
Dimethyl phthalate	ND		9.4	0.20	ug/L		05/06/20 08:43	05/11/20 23:52	1
Benzo[a]anthracene	ND		9.4	0.33	ug/L		05/06/20 08:43	05/11/20 23:52	1
Benzo[a]pyrene	ND		9.4	0.29	ug/L		05/06/20 08:43	05/11/20 23:52	1
Benzo[b]fluoranthene	ND		9.4	0.50	ug/L		05/06/20 08:43	05/11/20 23:52	1
Benzo[k]fluoranthene	ND		9.4	0.43	ug/L		05/06/20 08:43	05/11/20 23:52	1
Anthracene	ND		9.4	0.39	ug/L		05/06/20 08:43	05/11/20 23:52	1
Acenaphthylene	ND		9.4	0.46	ug/L		05/06/20 08:43	05/11/20 23:52	1
Chrysene	ND		9.4	0.51	ug/L		05/06/20 08:43	05/11/20 23:52	1
Benzo[g,h,i]perylene	ND		9.4	0.47	ug/L		05/06/20 08:43	05/11/20 23:52	1
Fluorene	ND		9.4	0.29	ug/L		05/06/20 08:43	05/11/20 23:52	1
Phenanthrene	ND		9.4	0.24	ug/L		05/06/20 08:43	05/11/20 23:52	1
Dibenz(a,h)anthracene	ND		9.4	0.48	ug/L		05/06/20 08:43	05/11/20 23:52	1
Indeno[1,2,3-cd]pyrene	ND		9.4	0.61	ug/L		05/06/20 08:43	05/11/20 23:52	1
Pyrene	ND		9.4	0.35	ug/L		05/06/20 08:43	05/11/20 23:52	1
3 & 4 Methylphenol	ND		9.4	0.75	ug/L		05/06/20 08:43	05/11/20 23:52	1
4-Chloro-3-methylphenol	ND		9.4	2.3	ug/L		05/06/20 08:43	05/11/20 23:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		43 - 120	05/06/20 08:43	05/11/20 23:52	1
2-Fluorophenol	96		16 - 136	05/06/20 08:43	05/11/20 23:52	1
2,4,6-Tribromophenol	100		16 - 147	05/06/20 08:43	05/11/20 23:52	1
Nitrobenzene-d5	100		52 - 120	05/06/20 08:43	05/11/20 23:52	1
Phenol-d5	97		11 - 145	05/06/20 08:43	05/11/20 23:52	1
Terphenyl-d14	72		10 - 145	05/06/20 08:43	05/11/20 23:52	1

Client Sample ID: 200504107-03E MW-18

Date Collected: 05/04/20 15:45

Date Received: 05/05/20 15:45

Lab Sample ID: 280-136213-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		9.7	0.27	ug/L		05/06/20 08:43	05/12/20 00:21	1
Benzidine	ND		140	48	ug/L		05/06/20 08:43	05/12/20 00:21	1
1,2,4-Trichlorobenzene	ND	*	9.7	0.57	ug/L		05/06/20 08:43	05/12/20 00:21	1
Hexachlorobenzene	ND		9.7	0.64	ug/L		05/06/20 08:43	05/12/20 00:21	1
Bis(2-chloroethyl)ether	ND		9.7	0.80	ug/L		05/06/20 08:43	05/12/20 00:21	1
2-Chloronaphthalene	ND		9.7	0.25	ug/L		05/06/20 08:43	05/12/20 00:21	1
2-Chlorophenol	ND		9.7	1.9	ug/L		05/06/20 08:43	05/12/20 00:21	1
2-Methylphenol	ND		9.7	0.95	ug/L		05/06/20 08:43	05/12/20 00:21	1
2,4,6-Trichlorophenol	ND		19	0.28	ug/L		05/06/20 08:43	05/12/20 00:21	1
3,3'-Dichlorobenzidine	ND		48	1.9	ug/L		05/06/20 08:43	05/12/20 00:21	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Colorado Analytical Laboratories Inc
Project/Site: Mill Iron

Job ID: 280-136213-1
SDG: 200504107

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: 200504107-03E MW-18

Date Collected: 05/04/20 15:45

Date Received: 05/05/20 15:45

Lab Sample ID: 280-136213-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	ND	*	9.7	0.95	ug/L		05/06/20 08:43	05/12/20 00:21	1
2,4-Dichlorophenol	ND		9.7	0.62	ug/L		05/06/20 08:43	05/12/20 00:21	1
2,4-Dimethylphenol	ND		9.7	0.56	ug/L		05/06/20 08:43	05/12/20 00:21	1
2,4-Dinitrotoluene	ND		9.7	1.6	ug/L		05/06/20 08:43	05/12/20 00:21	1
2,6-Dinitrotoluene	ND		9.7	1.8	ug/L		05/06/20 08:43	05/12/20 00:21	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		9.7	0.22	ug/L		05/06/20 08:43	05/12/20 00:21	1
Fluoranthene	ND		9.7	0.19	ug/L		05/06/20 08:43	05/12/20 00:21	1
4-Bromophenyl phenyl ether	ND		9.7	0.41	ug/L		05/06/20 08:43	05/12/20 00:21	1
4-Chlorophenyl phenyl ether	ND		9.7	1.6	ug/L		05/06/20 08:43	05/12/20 00:21	1
bis(1-chloroisopropyl)ether	ND		9.7	0.27	ug/L		05/06/20 08:43	05/12/20 00:21	1
Bis(2-chloroethoxy)methane	ND		9.7	0.94	ug/L		05/06/20 08:43	05/12/20 00:21	1
Hexachlorobutadiene	ND		9.7	3.2	ug/L		05/06/20 08:43	05/12/20 00:21	1
Hexachlorocyclopentadiene	ND		48	3.0	ug/L		05/06/20 08:43	05/12/20 00:21	1
Isophorone	ND		9.7	0.20	ug/L		05/06/20 08:43	05/12/20 00:21	1
Naphthalene	ND		9.7	0.28	ug/L		05/06/20 08:43	05/12/20 00:21	1
Nitrobenzene	ND		9.7	0.78	ug/L		05/06/20 08:43	05/12/20 00:21	1
2-Nitrophenol	ND		19	0.38	ug/L		05/06/20 08:43	05/12/20 00:21	1
2,4-Dinitrophenol	ND		58	9.7	ug/L		05/06/20 08:43	05/12/20 00:21	1
4-Nitrophenol	ND		48	1.2	ug/L		05/06/20 08:43	05/12/20 00:21	1
4,6-Dinitro-2-methylphenol	ND		58	3.9	ug/L		05/06/20 08:43	05/12/20 00:21	1
N-Nitrosodimethylamine	ND		9.7	0.28	ug/L		05/06/20 08:43	05/12/20 00:21	1
N-Nitrosodi-n-propylamine	ND		9.7	0.34	ug/L		05/06/20 08:43	05/12/20 00:21	1
N-Nitrosodiphenylamine	ND		9.7	0.42	ug/L		05/06/20 08:43	05/12/20 00:21	1
Pentachlorophenol	ND		58	19	ug/L		05/06/20 08:43	05/12/20 00:21	1
Phenol	ND		9.7	1.9	ug/L		05/06/20 08:43	05/12/20 00:21	1
Bis(2-ethylhexyl) phthalate	ND		9.7	0.54	ug/L		05/06/20 08:43	05/12/20 00:21	1
Butyl benzyl phthalate	ND		9.7	0.97	ug/L		05/06/20 08:43	05/12/20 00:21	1
Di-n-butyl phthalate	ND		9.7	1.1	ug/L		05/06/20 08:43	05/12/20 00:21	1
Di-n-octyl phthalate	ND		9.7	0.34	ug/L		05/06/20 08:43	05/12/20 00:21	1
Diethyl phthalate	ND		9.7	0.37	ug/L		05/06/20 08:43	05/12/20 00:21	1
Dimethyl phthalate	ND		9.7	0.20	ug/L		05/06/20 08:43	05/12/20 00:21	1
Benzo[a]anthracene	ND		9.7	0.34	ug/L		05/06/20 08:43	05/12/20 00:21	1
Benzo[a]pyrene	ND		9.7	0.30	ug/L		05/06/20 08:43	05/12/20 00:21	1
Benzo[b]fluoranthene	ND		9.7	0.51	ug/L		05/06/20 08:43	05/12/20 00:21	1
Benzo[k]fluoranthene	ND		9.7	0.44	ug/L		05/06/20 08:43	05/12/20 00:21	1
Anthracene	ND		9.7	0.41	ug/L		05/06/20 08:43	05/12/20 00:21	1
Acenaphthylene	ND		9.7	0.47	ug/L		05/06/20 08:43	05/12/20 00:21	1
Chrysene	ND		9.7	0.52	ug/L		05/06/20 08:43	05/12/20 00:21	1
Benzo[g,h,i]perylene	ND		9.7	0.48	ug/L		05/06/20 08:43	05/12/20 00:21	1
Fluorene	ND		9.7	0.30	ug/L		05/06/20 08:43	05/12/20 00:21	1
Phenanthrene	ND		9.7	0.25	ug/L		05/06/20 08:43	05/12/20 00:21	1
Dibenz(a,h)anthracene	ND		9.7	0.49	ug/L		05/06/20 08:43	05/12/20 00:21	1
Indeno[1,2,3-cd]pyrene	ND		9.7	0.63	ug/L		05/06/20 08:43	05/12/20 00:21	1
Pyrene	ND		9.7	0.36	ug/L		05/06/20 08:43	05/12/20 00:21	1
3 & 4 Methylphenol	ND		9.7	0.77	ug/L		05/06/20 08:43	05/12/20 00:21	1
4-Chloro-3-methylphenol	ND		9.7	2.3	ug/L		05/06/20 08:43	05/12/20 00:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	81		43 - 120	05/06/20 08:43	05/12/20 00:21	1

Eurofins TestAmerica, Denver

Client Sample Results

Client: Colorado Analytical Laboratories Inc
Project/Site: Mill Iron

Job ID: 280-136213-1
SDG: 200504107

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: 200504107-03E MW-18
Date Collected: 05/04/20 15:45
Date Received: 05/05/20 15:45

Lab Sample ID: 280-136213-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	77		16 - 136	05/06/20 08:43	05/12/20 00:21	1
2,4,6-Tribromophenol	73		16 - 147	05/06/20 08:43	05/12/20 00:21	1
Nitrobenzene-d5	93		52 - 120	05/06/20 08:43	05/12/20 00:21	1
Phenol-d5	77		11 - 145	05/06/20 08:43	05/12/20 00:21	1
Terphenyl-d14	36		10 - 145	05/06/20 08:43	05/12/20 00:21	1

QC Sample Results

Client: Colorado Analytical Laboratories Inc
Project/Site: Mill Iron

Job ID: 280-136213-1
SDG: 200504107

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-493848/1-A

Matrix: Water

Analysis Batch: 494379

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 493848

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		10	0.28	ug/L		05/06/20 08:43	05/11/20 20:58	1
Benzidine	ND		150	50	ug/L		05/06/20 08:43	05/11/20 20:58	1
1,2,4-Trichlorobenzene	ND		10	0.59	ug/L		05/06/20 08:43	05/11/20 20:58	1
Hexachlorobenzene	ND		10	0.66	ug/L		05/06/20 08:43	05/11/20 20:58	1
Bis(2-chloroethyl)ether	ND		10	0.83	ug/L		05/06/20 08:43	05/11/20 20:58	1
2-Chloronaphthalene	ND		10	0.26	ug/L		05/06/20 08:43	05/11/20 20:58	1
2-Chlorophenol	ND		10	2.0	ug/L		05/06/20 08:43	05/11/20 20:58	1
2-Methylphenol	ND		10	0.98	ug/L		05/06/20 08:43	05/11/20 20:58	1
2,4,6-Trichlorophenol	ND		20	0.29	ug/L		05/06/20 08:43	05/11/20 20:58	1
3,3'-Dichlorobenzidine	ND		50	2.0	ug/L		05/06/20 08:43	05/11/20 20:58	1
Hexachloroethane	ND		10	0.98	ug/L		05/06/20 08:43	05/11/20 20:58	1
2,4-Dichlorophenol	ND		10	0.64	ug/L		05/06/20 08:43	05/11/20 20:58	1
2,4-Dimethylphenol	ND		10	0.58	ug/L		05/06/20 08:43	05/11/20 20:58	1
2,4-Dinitrotoluene	ND		10	1.7	ug/L		05/06/20 08:43	05/11/20 20:58	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		05/06/20 08:43	05/11/20 20:58	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		10	0.23	ug/L		05/06/20 08:43	05/11/20 20:58	1
Fluoranthene	ND		10	0.20	ug/L		05/06/20 08:43	05/11/20 20:58	1
4-Bromophenyl phenyl ether	ND		10	0.43	ug/L		05/06/20 08:43	05/11/20 20:58	1
4-Chlorophenyl phenyl ether	ND		10	1.7	ug/L		05/06/20 08:43	05/11/20 20:58	1
bis(1-chloroispropyl)ether	ND		10	0.28	ug/L		05/06/20 08:43	05/11/20 20:58	1
Bis(2-chloroethoxy)methane	ND		10	0.97	ug/L		05/06/20 08:43	05/11/20 20:58	1
Hexachlorobutadiene	ND		10	3.3	ug/L		05/06/20 08:43	05/11/20 20:58	1
Hexachlorocyclopentadiene	ND		50	3.1	ug/L		05/06/20 08:43	05/11/20 20:58	1
Isophorone	ND		10	0.21	ug/L		05/06/20 08:43	05/11/20 20:58	1
Naphthalene	ND		10	0.29	ug/L		05/06/20 08:43	05/11/20 20:58	1
Nitrobenzene	ND		10	0.81	ug/L		05/06/20 08:43	05/11/20 20:58	1
2-Nitrophenol	ND		20	0.39	ug/L		05/06/20 08:43	05/11/20 20:58	1
2,4-Dinitrophenol	ND		60	10	ug/L		05/06/20 08:43	05/11/20 20:58	1
4-Nitrophenol	ND		50	1.2	ug/L		05/06/20 08:43	05/11/20 20:58	1
4,6-Dinitro-2-methylphenol	ND		60	4.0	ug/L		05/06/20 08:43	05/11/20 20:58	1
N-Nitrosodimethylamine	ND		10	0.29	ug/L		05/06/20 08:43	05/11/20 20:58	1
N-Nitrosodi-n-propylamine	ND		10	0.35	ug/L		05/06/20 08:43	05/11/20 20:58	1
N-Nitrosodiphenylamine	ND		10	0.44	ug/L		05/06/20 08:43	05/11/20 20:58	1
Pentachlorophenol	ND		60	20	ug/L		05/06/20 08:43	05/11/20 20:58	1
Phenol	ND		10	2.0	ug/L		05/06/20 08:43	05/11/20 20:58	1
Bis(2-ethylhexyl) phthalate	ND		10	0.56	ug/L		05/06/20 08:43	05/11/20 20:58	1
Butyl benzyl phthalate	ND		10	1.0	ug/L		05/06/20 08:43	05/11/20 20:58	1
Di-n-butyl phthalate	ND		10	1.2	ug/L		05/06/20 08:43	05/11/20 20:58	1
Di-n-octyl phthalate	ND		10	0.35	ug/L		05/06/20 08:43	05/11/20 20:58	1
Diethyl phthalate	ND		10	0.38	ug/L		05/06/20 08:43	05/11/20 20:58	1
Dimethyl phthalate	ND		10	0.21	ug/L		05/06/20 08:43	05/11/20 20:58	1
Benzo[a]anthracene	ND		10	0.35	ug/L		05/06/20 08:43	05/11/20 20:58	1
Benzo[a]pyrene	ND		10	0.31	ug/L		05/06/20 08:43	05/11/20 20:58	1
Benzo[b]fluoranthene	ND		10	0.53	ug/L		05/06/20 08:43	05/11/20 20:58	1
Benzo[k]fluoranthene	ND		10	0.46	ug/L		05/06/20 08:43	05/11/20 20:58	1
Anthracene	ND		10	0.42	ug/L		05/06/20 08:43	05/11/20 20:58	1
Acenaphthylene	ND		10	0.49	ug/L		05/06/20 08:43	05/11/20 20:58	1
Chrysene	ND		10	0.54	ug/L		05/06/20 08:43	05/11/20 20:58	1

Eurofins TestAmerica, Denver

QC Sample Results

Client: Colorado Analytical Laboratories Inc
Project/Site: Mill Iron

Job ID: 280-136213-1
SDG: 200504107

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-493848/1-A

Matrix: Water

Analysis Batch: 494379

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 493848

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		10	0.50	ug/L		05/06/20 08:43	05/11/20 20:58	1
Fluorene	ND		10	0.31	ug/L		05/06/20 08:43	05/11/20 20:58	1
Phenanthrene	ND		10	0.26	ug/L		05/06/20 08:43	05/11/20 20:58	1
Dibenz(a,h)anthracene	ND		10	0.51	ug/L		05/06/20 08:43	05/11/20 20:58	1
Indeno[1,2,3-cd]pyrene	ND		10	0.65	ug/L		05/06/20 08:43	05/11/20 20:58	1
Pyrene	ND		10	0.37	ug/L		05/06/20 08:43	05/11/20 20:58	1
3 & 4 Methylphenol	ND		10	0.80	ug/L		05/06/20 08:43	05/11/20 20:58	1
4-Chloro-3-methylphenol	ND		10	2.4	ug/L		05/06/20 08:43	05/11/20 20:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		43 - 120	05/06/20 08:43	05/11/20 20:58	1
2-Fluorophenol	96		16 - 136	05/06/20 08:43	05/11/20 20:58	1
2,4,6-Tribromophenol	93		16 - 147	05/06/20 08:43	05/11/20 20:58	1
Nitrobenzene-d5	98		52 - 120	05/06/20 08:43	05/11/20 20:58	1
Phenol-d5	94		11 - 145	05/06/20 08:43	05/11/20 20:58	1
Terphenyl-d14	105		10 - 145	05/06/20 08:43	05/11/20 20:58	1

Lab Sample ID: LCS 280-493848/2-A

Matrix: Water

Analysis Batch: 494379

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 493848

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Acenaphthene	80.0	59.4		ug/L		74	47 - 145
Benzidine	160	53.4	J	ug/L		33	5 - 65
1,2,4-Trichlorobenzene	80.0	35.3		ug/L		44	44 - 142
Hexachlorobenzene	80.0	59.4		ug/L		74	10 - 152
Bis(2-chloroethyl)ether	80.0	65.4		ug/L		82	12 - 158
2-Chloronaphthalene	80.0	53.6		ug/L		67	60 - 118
2-Chlorophenol	80.0	57.6		ug/L		72	23 - 134
2-Methylphenol	80.0	62.7		ug/L		78	51 - 108
2,4,6-Trichlorophenol	80.0	63.5		ug/L		79	37 - 144
3,3'-Dichlorobenzidine	160	126		ug/L		79	10 - 262
Hexachloroethane	80.0	28.1	*	ug/L		35	40 - 113
2,4-Dichlorophenol	80.0	57.3		ug/L		72	39 - 135
2,4-Dimethylphenol	80.0	57.7		ug/L		72	32 - 119
2,4-Dinitrotoluene	80.0	64.9		ug/L		81	39 - 139
2,6-Dinitrotoluene	80.0	62.8		ug/L		78	50 - 158
1,2-Diphenylhydrazine(as Azobenzene)	80.9	71.1		ug/L		88	50 - 116
Fluoranthene	80.0	61.0		ug/L		76	26 - 137
4-Bromophenyl phenyl ether	80.0	61.3		ug/L		77	53 - 127
4-Chlorophenyl phenyl ether	80.0	60.2		ug/L		75	25 - 158
bis(1-chloroisopropyl)ether	80.0	58.7		ug/L		73	36 - 166
Bis(2-chloroethoxy)methane	80.0	66.8		ug/L		83	33 - 184
Hexachlorobutadiene	80.0	28.6		ug/L		36	24 - 116
Hexachlorocyclopentadiene	160	39.6	J	ug/L		25	10 - 68
Isophorone	80.0	66.1		ug/L		83	21 - 196
Naphthalene	80.0	43.5		ug/L		54	21 - 133
Nitrobenzene	80.0	66.4		ug/L		83	35 - 180

Eurofins TestAmerica, Denver

QC Sample Results

Client: Colorado Analytical Laboratories Inc
Project/Site: Mill Iron

Job ID: 280-136213-1
SDG: 200504107

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-493848/2-A

Matrix: Water

Analysis Batch: 494379

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 493848

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitrophenol	80.0	59.7		ug/L		75	29 - 182
2,4-Dinitrophenol	160	116		ug/L		72	10 - 191
4-Nitrophenol	160	137		ug/L		86	10 - 132
4,6-Dinitro-2-methylphenol	160	122		ug/L		76	10 - 181
N-Nitrosodimethylamine	80.0	67.1		ug/L		84	37 - 113
N-Nitrosodi-n-propylamine	80.0	68.9		ug/L		86	10 - 230
N-Nitrosodiphenylamine	80.0	61.2		ug/L		76	46 - 114
Pentachlorophenol	160	104		ug/L		65	14 - 176
Phenol	80.0	64.4		ug/L		80	10 - 112
Bis(2-ethylhexyl) phthalate	80.0	64.0		ug/L		80	10 - 158
Butyl benzyl phthalate	80.0	62.5		ug/L		78	10 - 152
Di-n-butyl phthalate	80.0	61.7		ug/L		77	10 - 118
Di-n-octyl phthalate	80.0	60.3		ug/L		75	10 - 146
Diethyl phthalate	80.0	63.3		ug/L		79	10 - 114
Dimethyl phthalate	80.0	62.0		ug/L		77	10 - 112
Benzo[a]anthracene	80.0	59.4		ug/L		74	33 - 143
Benzo[a]pyrene	80.0	57.1		ug/L		71	17 - 163
Benzo[b]fluoranthene	80.0	61.6		ug/L		77	24 - 159
Benzo[k]fluoranthene	80.0	58.5		ug/L		73	11 - 162
Anthracene	80.0	59.2		ug/L		74	27 - 133
Acenaphthylene	80.0	57.1		ug/L		71	33 - 145
Chrysene	80.0	59.2		ug/L		74	17 - 168
Benzo[g,h,i]perylene	80.0	61.1		ug/L		76	10 - 219
Fluorene	80.0	61.5		ug/L		77	59 - 121
Phenanthrene	80.0	60.2		ug/L		75	54 - 120
Dibenz(a,h)anthracene	80.0	64.0		ug/L		80	10 - 227
Indeno[1,2,3-cd]pyrene	80.0	59.4		ug/L		74	10 - 171
Pyrene	80.0	59.2		ug/L		74	55 - 115
3 & 4 Methylphenol	80.0	62.4		ug/L		78	51 - 112
4-Chloro-3-methylphenol	80.0	68.2		ug/L		85	22 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	73		43 - 120
2-Fluorophenol	80		16 - 136
2,4,6-Tribromophenol	92		16 - 147
Nitrobenzene-d5	81		52 - 120
Phenol-d5	81		11 - 145
Terphenyl-d14	88		10 - 145

Lab Sample ID: LCSD 280-493848/3-A

Matrix: Water

Analysis Batch: 494379

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 493848

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	80.0	62.1		ug/L		78	47 - 145	4	30
Benzidine	160	64.5	J	ug/L		40	5 - 65	19	50
1,2,4-Trichlorobenzene	80.0	29.3	*	ug/L		37	44 - 142	19	35
Hexachlorobenzene	80.0	67.7		ug/L		85	10 - 152	13	30

Eurofins TestAmerica, Denver

QC Sample Results

Client: Colorado Analytical Laboratories Inc
Project/Site: Mill Iron

Job ID: 280-136213-1
SDG: 200504107

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-493848/3-A

Matrix: Water

Analysis Batch: 494379

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 493848

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-chloroethyl)ether	80.0	76.2		ug/L		95	12 - 158	15	30
2-Chloronaphthalene	80.0	52.4		ug/L		65	60 - 118	2	30
2-Chlorophenol	80.0	66.1		ug/L		83	23 - 134	14	30
2-Methylphenol	80.0	71.0		ug/L		89	51 - 108	12	35
2,4,6-Trichlorophenol	80.0	68.5		ug/L		86	37 - 144	8	30
3,3'-Dichlorobenzidine	160	146		ug/L		91	10 - 262	15	50
Hexachloroethane	80.0	27.4	*	ug/L		34	40 - 113	2	52
2,4-Dichlorophenol	80.0	63.8		ug/L		80	39 - 135	11	30
2,4-Dimethylphenol	80.0	66.9		ug/L		84	32 - 119	15	35
2,4-Dinitrotoluene	80.0	71.5		ug/L		89	39 - 139	10	35
2,6-Dinitrotoluene	80.0	68.9		ug/L		86	50 - 158	9	30
1,2-Diphenylhydrazine(as Azobenzene)	80.9	78.0		ug/L		96	50 - 116	9	50
Fluoranthene	80.0	68.5		ug/L		86	26 - 137	12	30
4-Bromophenyl phenyl ether	80.0	68.4		ug/L		85	53 - 127	11	34
4-Chlorophenyl phenyl ether	80.0	65.4		ug/L		82	25 - 158	8	30
bis(1-chloroispropyl)ether	80.0	63.1		ug/L		79	36 - 166	7	30
Bis(2-chloroethoxy)methane	80.0	74.7		ug/L		93	33 - 184	11	30
Hexachlorobutadiene	80.0	24.4		ug/L		30	24 - 116	16	41
Hexachlorocyclopentadiene	160	33.4	J	ug/L		21	10 - 68	17	82
Isophorone	80.0	74.6		ug/L		93	21 - 196	12	30
Naphthalene	80.0	37.6		ug/L		47	21 - 133	15	30
Nitrobenzene	80.0	74.7		ug/L		93	35 - 180	12	30
2-Nitrophenol	80.0	67.3		ug/L		84	29 - 182	12	30
2,4-Dinitrophenol	160	128		ug/L		80	10 - 191	10	61
4-Nitrophenol	160	154		ug/L		96	10 - 132	11	42
4,6-Dinitro-2-methylphenol	160	139		ug/L		87	10 - 181	13	55
N-Nitrosodimethylamine	80.0	76.2		ug/L		95	37 - 113	13	30
N-Nitrosodi-n-propylamine	80.0	77.8		ug/L		97	10 - 230	12	30
N-Nitrosodiphenylamine	80.0	69.5		ug/L		87	46 - 114	13	50
Pentachlorophenol	160	120		ug/L		75	14 - 176	14	30
Phenol	80.0	73.4		ug/L		92	10 - 112	13	30
Bis(2-ethylhexyl) phthalate	80.0	72.1		ug/L		90	10 - 158	12	30
Butyl benzyl phthalate	80.0	70.8		ug/L		88	10 - 152	12	30
Di-n-butyl phthalate	80.0	69.3		ug/L		87	10 - 118	12	30
Di-n-octyl phthalate	80.0	67.9		ug/L		85	10 - 146	12	30
Diethyl phthalate	80.0	70.7		ug/L		88	10 - 114	11	30
Dimethyl phthalate	80.0	68.2		ug/L		85	10 - 112	10	30
Benzo[a]anthracene	80.0	66.2		ug/L		83	33 - 143	11	30
Benzo[a]pyrene	80.0	64.7		ug/L		81	17 - 163	12	73
Benzo[b]fluoranthene	80.0	68.2		ug/L		85	24 - 159	10	90
Benzo[k]fluoranthene	80.0	66.2		ug/L		83	11 - 162	12	50
Anthracene	80.0	68.2		ug/L		85	27 - 133	14	30
Acenaphthylene	80.0	59.0		ug/L		74	33 - 145	3	30
Chrysene	80.0	66.2		ug/L		83	17 - 168	11	30
Benzo[g,h,i]perylene	80.0	69.5		ug/L		87	10 - 219	13	64
Fluorene	80.0	66.3		ug/L		83	59 - 121	8	30
Phenanthrene	80.0	67.4		ug/L		84	54 - 120	11	30
Dibenz(a,h)anthracene	80.0	71.9		ug/L		90	10 - 227	12	78

Eurofins TestAmerica, Denver

QC Sample Results

Client: Colorado Analytical Laboratories Inc
Project/Site: Mill Iron

Job ID: 280-136213-1
SDG: 200504107

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-493848/3-A

Matrix: Water

Analysis Batch: 494379

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 493848

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Indeno[1,2,3-cd]pyrene	80.0	67.5		ug/L		84	10 - 171	13	73
Pyrene	80.0	66.2		ug/L		83	55 - 115	11	30
3 & 4 Methylphenol	80.0	71.9		ug/L		90	51 - 112	14	50
4-Chloro-3-methylphenol	80.0	75.7		ug/L		95	22 - 147	10	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2-Fluorobiphenyl	77		43 - 120
2-Fluorophenol	91		16 - 136
2,4,6-Tribromophenol	100		16 - 147
Nitrobenzene-d5	91		52 - 120
Phenol-d5	94		11 - 145
Terphenyl-d14	99		10 - 145

QC Association Summary

Client: Colorado Analytical Laboratories Inc
Project/Site: Mill Iron

Job ID: 280-136213-1
SDG: 200504107

GC/MS Semi VOA

Prep Batch: 493848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-136213-1	200504107-01E MW-2	Total/NA	Water	625	
280-136213-2	200504107-02E MW-3	Total/NA	Water	625	
280-136213-3	200504107-03E MW-18	Total/NA	Water	625	
MB 280-493848/1-A	Method Blank	Total/NA	Water	625	
LCS 280-493848/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 280-493848/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 494379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-136213-1	200504107-01E MW-2	Total/NA	Water	625	493848
280-136213-2	200504107-02E MW-3	Total/NA	Water	625	493848
280-136213-3	200504107-03E MW-18	Total/NA	Water	625	493848
MB 280-493848/1-A	Method Blank	Total/NA	Water	625	493848
LCS 280-493848/2-A	Lab Control Sample	Total/NA	Water	625	493848
LCSD 280-493848/3-A	Lab Control Sample Dup	Total/NA	Water	625	493848

Lab Chronicle

Client: Colorado Analytical Laboratories Inc
Project/Site: Mill Iron

Job ID: 280-136213-1
SDG: 200504107

Client Sample ID: 200504107-01E MW-2

Lab Sample ID: 280-136213-1

Date Collected: 05/04/20 12:50

Matrix: Water

Date Received: 05/05/20 15:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			1029.3 mL	1 mL	493848	05/06/20 08:43	JNM	TAL DEN
Total/NA	Analysis	625		1			494379	05/11/20 23:23	RDP	TAL DEN

Client Sample ID: 200504107-02E MW-3

Lab Sample ID: 280-136213-2

Date Collected: 05/04/20 11:35

Matrix: Water

Date Received: 05/05/20 15:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			1064 mL	1 mL	493848	05/06/20 08:43	JNM	TAL DEN
Total/NA	Analysis	625		1			494379	05/11/20 23:52	RDP	TAL DEN

Client Sample ID: 200504107-03E MW-18

Lab Sample ID: 280-136213-3

Date Collected: 05/04/20 15:45

Matrix: Water

Date Received: 05/05/20 15:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			1036.2 mL	1 mL	493848	05/06/20 08:43	JNM	TAL DEN
Total/NA	Analysis	625		1			494379	05/12/20 00:21	RDP	TAL DEN

Laboratory References:

TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Login Sample Receipt Checklist

Client: Colorado Analytical Laboratories Inc

Job Number: 280-136213-1

SDG Number: 200504107

Login Number: 136213

List Number: 1

Creator: Lubin, Julius C

List Source: Eurofins TestAmerica, Denver

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	False	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Commerce City Lab
10411 Heinz Way
Commerce City CO 80640

Lakewood Service Center
12860 W. Cedar Dr, 100A
Lakewood CO 80228

Phone: 303-659-2313

www.coloradolab.com

Report To Information		Bill To Information (If different from report to)		Project Name / Number	
Company Name: <u>Colorado Analytical Labs</u>		Company Name: <u>Same</u>		<u>Mill Iron</u>	
Contact Name: <u>Stuart Nielson</u>		Contact Name: _____		<u>200504107</u>	
Address: <u>10411 Heinz Way</u>		Address: _____		Task Number (Lab Use Only)	
City <u>Commerce City</u> State <u>CO</u> Zip <u>80640</u>		City _____ State _____ Zip _____		CAL Task No. 200504107	
Phone: <u>303-659-2313</u>		Phone: _____			
Email: <u>stuartnielson@coloradolab.com</u>		Email: _____			
Sample Collector: Sample Collector Phone: _____		PO No.: _____			

[illegible]

07 B 2 10 L R 5/5 R

SEPTEMBER 2018 ANALYTICAL REPORT



Hazen Research, Inc.
4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 279-4501
Fax: (303) 278-1528

Lab Control ID: 18M02696

Received: Sep 13, 2018

Reported: Oct 03, 2018

Purchase Order No.

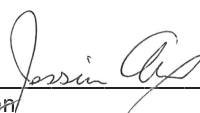
None Received

Customer ID: 20040H
Account ID: Z01034

Stuart Nielson
Colorado Analytical Laboratories, Inc.
PO Box 507
240 South Main Street
Brighton, CO 80601

ANALYTICAL REPORT

*Report may only be copied in its entirety.
Results reported herein relate only to discrete samples
submitted by the client. Hazen Research, Inc. does not warrant
that the results are representative of anything other than the
samples that were received in the laboratory*

By: 
Jessica Axen
Analytical Laboratories Director

Customer ID: 20040H
 Account ID: Z01034
ANALYTICAL REPORT

Stuart Nielson
 Colorado Analytical Laboratories, Inc.

Lab Sample ID			18M02696-001					
Customer Sample ID			180911125-01D - MW-1					
			sampled on 09/11/18 @ 1427 by Valen Lickley					
			Precision*		Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	T	110	25	0.2	SM 7110 B	10/1/18 @ 0653	AN
Gross Beta	pCi/L	T	41	11	12.4	SM 7110 B	10/1/18 @ 0653	AN

Certification ID's: CO/EPA CO00008; CT PH-0152; KS E-10265; NJ CO008; NYSELAP (NELAC Certified) 11417; RI LAO00284; WI 998376610, TX T104704256-15-6

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

Codes: (T) = Total (D) = Dissolved (S) = Suspended (R) = Total Residual (AR) = As Received < = Less Than

18M02696
Colorado Analytical
Laboratories, Inc.

Brighton Lab
240 South Main Street
Brighton, CO 80601
Lakewood Lab
12860 W. Cedar Dr, Suite 100A
Lakewood CO 80228

Phone: 303-659-2313
Fax: 303-659-2315
www.coloradolab.com

Instructions: Send via UPS to Hazen Research 12 872 Ave C3 9946 7314	Relinquished By: Adam	Date/Time: 9/12/18	Received By: [Signature]
---	-----------------------	--------------------	--------------------------



September 19, 2018

Subcontract Number: NA
Laboratory Report: RES 418119-1
Project # / P.O. #: 2345-01
Project Description: Mill Iron

Stuart Nielson
Colorado Analytical Laboratories, Inc.
240 S. Main St.
Brighton CO 80601

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 418119-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

A blue ink signature of Gina Vettriano, written in a cursive style.

Gina Vettriano for

Jeanne Spencer
President

RESERVOIRS ENVIRONMENTAL, INC.
NVLAP Lab Code 101896-0

TABLE I. TEM WATER SAMPLE ANALYTICAL RESULTS

RES Job Number: RES 418119-1
Client: Colorado Analytical Laboratories, Inc.
Client Project Number/P.O.: Mill Iron
Client Project Description: 2345-01
Date Samples Received: September 12, 2018
Analysis Type: TEM, Water
Turnaround: 3-5 Day
Date Samples Analyzed: September 19, 2018

Client ID Number	Lab ID Number	Aliquot Deposited on Filter (ml)	Dilution Factor	TOTAL Number of Asbestos Structures Detected	Greater than 10 Micron Length Asbestos Structures Detected (million struct/liter)	Analytical Sensitivity (million struct/liter)	TOTAL Asbestos Concentration (million struct/liter)	Greater than 10 Micron Length Asbestos Concentration (million struct/liter)
180911125-01E MW-1	EM 2163510	1	0.01	ND	ND	0.03	BAS	ND

NA = Not Analyzed

ND = None Detected

BAS = Below Analytical Sensitivity

Data QA:


Gina Vettraino

RES 418119

Due Date: _____
Due Time: _____

Job # _____
Page 1 of _____

REILAB Reservoirs Environmental, Inc.

5801 Logan St. Denver, CO 80216 • Ph. 303.964.1866 • Fax 303.477.4275 • Toll Free 866.RES.ENV
After Hours Cell Phone: 720-339-9228

SUBMITTED BY:

Company: **Colorado Analytical Laboratories, Inc.**
Address: 240 South Main Street
Brighton CO 80601

Project Number and/or P.O. #: 2354-01
Project Description/Location: Mill Iron

INVOICE TO: (IF DIFFERENT)

Contact: **Stuart Nielson**
Phone: 303-659-2313
Fax: _____
Cell/pager: _____

Final Data Deliverable Email Address:
stuartnielson@coloradolab.com

CONTACT INFORMATION:

Contact: _____
Phone: _____
Fax: _____
Cell/pager: _____

CAL Task No.
180911125

ARF

ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm & Sat. 8am - 5pm		VALID MATRIX CODES		LAB NOTES:	
PLM / PCM / TEM	RUSH (Same Day) PRIORITY (Next Day) STANDARD (3-5 Day)	Air = A	Bulk = B		
	(Rush PCM = 2hr, TEM = 6hr.)	Dust = D	Paint = P		
		Soil = S	Wipe = W		
		Swab = SW	F = Food		
		Drinking Water = DW	Waste Water = WW		
		O = Other			
		ASTM E1792 approved wipe media only			
CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm		SAMPLER'S INITIALS OR OTHER NOTES:			
Metal(s) / Dust**	RUSH 24 hr. 3-5 Day	Mold: Spore Trap or Bulk: +/- Identification, Quantification			
RCRA 8 / Metals & Welding	RUSH (3 Day) 5 Day 10 Day	Other: Bioaerosol, LAL or Environmental			
Fume Scan / TCLP**	24 hr. 3 day 5 Day	Legionella: +/- or Quantification			
Organics		Bacteria, Fungal: +/- or Quantification			
		Microbial Growth: Aerobic Plate Count ID, Y & M or			
		E. coli and/or Coliforms: +/- or Quantification			
		State Water (Please Circle One) Yes / No			
		Pathogens: Aerobic Plate Count, Salmonella, E. coli			
		O157:H7, Listeria, S. aureus, Campylobacter: +/- or			
		Quantification			
		ORGANICS - METH, TSS			
		METALS - Analyte(s)			
		RCRA 8, TCLP, Welding Fume, Metals Scan, pH			
		DUST - Total, Respirable			
		PCM - 7400A, 7400B, OSHA			
		Quant. Semi-Quant. Micro-vac. ISO-Indirect Preps			
		TEM - AHERA, Level II, 7402, ISO, +/- (Air, Bulk or Dust)			
		PLM - Short report, Point Count, Long report, Qualitative			
MICROBIOLOGY LABORATORY HOURS: Weekdays: 9am - 6pm		MICROBIOLOGY			
E. coli and/or Coliforms*	24-48 Hour Other: _____	Viabiles			
Pathogens*	24-48 Hour				
Microbial Growth*	5-10 Day				
Legionella	10 Day				
Mold	RUSH 24 Hr. 48 Hr. 3 Day 5 Day				
Turnaround times establish a laboratory priority, subject to laboratory volume and are not guaranteed. Additional fees apply for afterhours, weekends and holidays.					
Special Instructions:					
Client sample ID number (Sample ID's must be unique)					
1	180911125-01E MW-1	Sample Volume (L) / Area	1L	Matrix Code	O 1
2		Date Collected	9/11/18	Time Collected	1427
3					
4					
5					
6					
7					
8					
9					
10					
				EM Number (Laboratory Use Only)	
				2163510	

Number of samples received: _____

(Additional samples shall be listed on attached long form.)

NOTE: REI will analyze incoming samples based upon information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET 30 days, failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By: <u>Stuart Nielson</u>		Date/Time: <u>9/12/18</u> <u>900</u>		Sample Condition: On Ice _____ Sealed _____ Intact _____	
Laboratory Use Only		Hand / FedEx / UPS / USPS / Drop Box / Courier		Temp. (F°) _____ Yes / No _____	
Received By: <u>Rebecca</u>	Date/Time: <u>9/12/18</u>	Carrier: <u>UPS</u>	Phone Email Fax	Date	Initials
QA: _____	Contact	Contact	Phone Email Fax	Date	Initials

Attachment I

Key to Count Sheets
Count Sheets
Analytical Procedures

Structures identifications consist of an Asbestos Type followed by a Structure Type

Asbestos Type

A = Amosite
An = Anthophyllite
C = Chrysotile
Cr = Crocidolite
Trem-Act = Tremolite-Actinolite

Structure Types

F = Fiber
B = Bundle
C = Cluster
M = Matrix

ND = no structures detected
M = other structure associated with a matrix
NAM = Non Asbestos Mineral
XGB = partly obscured by a grid bar

Sizing Conversion

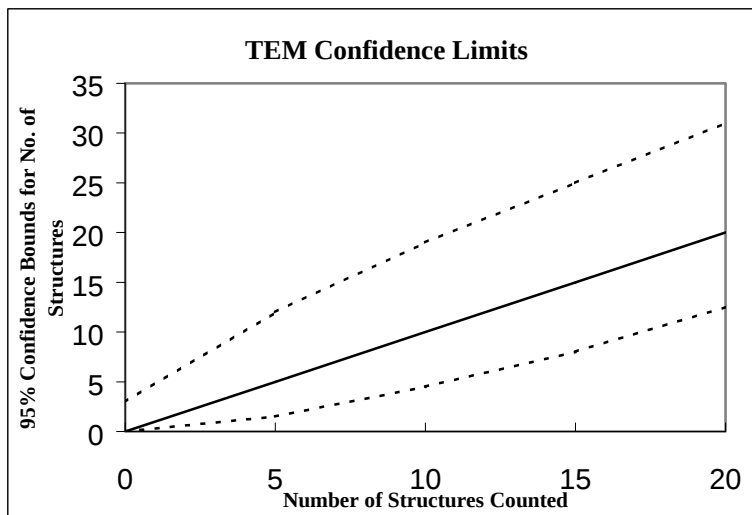
1 length unit = 5 mm on screen = 0.278 micron
1.80 length units = 0.5 micron
18.0 length units = 5 microns

1 width unit = 1 mm on screen = 0.0556 micron

TEM Analysts

Jeanne Spencer
Norberto Zimbleman
Nik Merrill

Paul D. LoScalzo
Sean Flynn
Cameron Powers



Upper and lower 95% confidence bounds for the number of structures counted assuming a Poisson distribution.

Lab Name	Reservoirs Environmental, Inc	Client	Colorado Analytical Laboratories, Inc.	Analyzed By:	NWM
Instrument	JEM-1200EX	Sample Type	Non-Drinking H2O	Analysis Date:	9/19/2018
Voltage	100KV	Aliquot (mL)	1	Prep Method:	Indirect
Magnification	20000	Res Number	418119-1	Date Recvd.	9/12/2018
Primary Filter Area (mm2)	385	EM Number	2163510	Storage Loc.	September
Secondary Filter Area (mm2)	346	Sample ID	180911125-01E MW-1	Scope Align.	
Grid Opening Area (mm2)	0.01	Method	TEM Waste Water Analysis		

Grid	GO	Type	Count	Total	Length	Width	ID	MineralClass	Comments	Photo	EDS
A	C5-1	ND									
	E4-6	ND									
	E3-4	ND									
	F3-4	ND									
	G3-4	ND									
B	H4-4	ND									
	G4-4	ND									
	F4-4	ND									
	E4-4	ND									
	C4-4	ND									

*NAM = Non Asbestos Material

Analytical Procedures – AHERA

Transmission electron microscopy/energy dispersive X-ray spectrometry/selected area electron diffraction (TEM/EDX/SAED) was employed in the analysis of the samples, which were collected on 25 mm mixed cellulose ester air filters. A portion of each filter was collapsed with acetone and etched in a plasma asher. The etched filter was then coated with a thin layer of carbon in a carbon side down. The sample was then placed inside a condensation washer and treated with acetone to remove the filter matrix and expose any inert material.

For each sample, enough grid openings on a 200 mesh TEM grid are analyzed to ensure an analytical sensitivity of at least 0.005 structures/cc. A minimum of four grid openings from two preparations are analyzed for each sample. The grid openings are searched for fibrous structures which, if present are analyzed by SAED and/or EDX (elemental analysis). The AHERA protocol requires SAED confirmation of enough chrysotile asbestos structures on each sample to cause the sample to exceed 70 structures/mm² (usually 4 or 5 structures). Both SAED and EDX confirmation are required of enough amphibole structures on each sample to cause the sample to exceed 70 structures/mm² (usually 4 or 5 structures) per sample. Either SAED or EDX is required for the remaining asbestos structures of either type. The morphology of each structure is determined and the length and the diameter of any asbestos structures are recorded. Asbestos fibers, bundles, cluster and matrices were identified and recorded. The asbestos structures have been defined in AHERA as follows:

- Fiber:** is a structure having a minimum length greater than or equal to 0.5 micron with an aspect ratio of 5:1 or greater with substantially parallel sides.
- Bundle:** is a structure composed of three or more fibers in parallel arrangement, with each fiber closer than the diameter of one fiber.
- Cluster:** is a structure with fibers in random arrangements such that all fibers are intermixed and no single fiber is isolated from the group.
- Matrix:** is a fiber or fibers with one end free and the other end embedded or hidden by a particulate. The exposed fiber end must meet the fiber definition given above.

If more than 50 asbestos structures are identified and confirmed on a sample, AHERA analysis may be terminated after completion of the grid opening, which contains the 50th structure. AHERA protocol requires the laboratory to reject any clearance sample which contains in excess of 25% total particulate loading or which appears to be unevenly loaded.

The AHERA protocol includes specific sampling requirements, including minimum numbers of samples and minimum air volumes. Specifically, the 70 structures/mm² clearance criteria is only allowed for sets five inside samples (collected in a group of 13 samples including: five outsides and three blanks) with volumes greater than 1200 liters (40 CFR Part 763, page 41894). Deviation from the AHERA sampling protocol may affect the validity of the analytical results. Analysis of samples collected by non-protocol methods are not accredited by NVLAP

Equations Used for Calculations

$$\text{Area Analyzed, mm}^2 = \# \text{ GO counted} \times \text{Average GO Area (mm)}$$

$$\text{Concentration, s/cc} = \frac{\# \text{ Asbestos Structures}}{\# \text{ GO Counted}} \times \frac{1}{\text{Volume (L)}} \times \frac{\text{Eff. Filter Area (mm}^2\text{)}}{\text{Average GO area (mm}^2\text{)}} \times \frac{1\text{L}}{1000\text{cc}}$$

$$\text{Filter loading, s/mm}^2 = \frac{\# \text{ Asbestos structures}}{\text{Area Analyzed (mm}^2\text{)}}$$

GO = TEM grid opening

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)



AT-1807

Laboratory Report

for

Colorado Analytical Laboratories Inc
240 S Main Street
Brighton, CO 80601
Attention: Stuart Nielson
Fax: 303-659-2315

Date of Issue
09/25/2018


**EUROFINS EATON
ANALYTICAL, LLC**

**Utah ELCP CA00006**

TRG6: Shea Greiner
Project Manager

Report: 762125
Project: NON-COMPLIANCE
Group: Color

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.

* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

* Test results relate only to the sample(s) tested.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Arizona	AZ0778	Montana	Cert 0035
Arkansas	Certified	Nebraska	Certified
California-Monrovia-ELAP	2813	Nevada	CA000062018
California-Colton- ELAP	2812	New Hampshire *	2959
Colorado	Certified	New Jersey *	CA 008
Connecticut	PH-0107	New Mexico	Certified
Delaware	CA 006	New York *	11320
Florida *	E871024	North Carolina	06701
Georgia	947	North Dakota	R-009
Guam	18-005R	Oregon *	CA200003-005
Hawaii	Certified	Pennsylvania *	68-565
Idaho	Certified	Puerto Rico	Certified
Illinois *	200033	Rhode Island	LAO00326
Indiana	C-CA-01	South Carolina	87016
Iowa - Asbestos	413	South Dakota	Certified
Kansas *	E-10268	Tennessee	TN02839
Kentucky	90107	Texas *	T104704230-17-13
Louisiana *	LA180000	Utah (Primary AB) *	CA00006
Maine	CA0006	Vermont	VT0114
Maryland	224	Virginia *	460260
Commonwealth of Northern Marianas Is.	MP0004	Washington	C838
Massachusetts	M-CA006	EPA Region 5	Certified
Michigan	9906	Los Angeles County Sanitation Districts	10264

* NELAP/TNI Recognized Accreditation Bodies

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ANAB.
Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ-mental (Drinking Water)	Environ-mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
1,2,3-TCP (5 PPT & 0.5 PPT)	CA SRL 524M-TCP	x		x
1,4-Dioxane	EPA 522	x		x
2,3,7,8-TCDD	Modified EPA 1613B	x		x
Acrylamide	In House Method (2440)	x		x
Algal Toxins/Microcystin	In House Method (3570)			
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x		x
Asbestos	EPA 100.2	x	x	
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method (2447)	x		x
Carbamates	EPA 531.2	x		x
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x		x
COD	EPA 410.4 / SM 5220D		x	
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x		x
Chlorinated Acids	EPA 555	x		x
Chlorine Dioxide	SM 4500-CLO2 D Palin Test	x		x
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1		x	
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x		x
Cyanide, Amenable	SM 4500-CN G	x	x	
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method (2470)	x		x
Diquat and Paraquat	EPA 549.2	x		x
DBP/HAA	SM 6251B	x		x
Dissolved Oxygen	SM 4500-O G		x	x
DOC	SM 5310C	x		x
E. Coli	(MTF/EC+MUG)	x		x
E. Coli	CFR 141.21(f)(6)(i)	x		x
E. Coli	SM 9223		x	
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x		x
E. Coli (Enumeration)	SM 9223B	x		x
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x		x
EDTA and NTA	In House Method (2454)	x		x
Endothall	EPA 548.1	x		x
Endothall	In-house Method (2445)	x		x
Enterococci	SM 9230B	x	x	
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)		x	
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x		x
Fecal Coliform with Chlorine Present	SM 9221E		x	
Fecal Streptococci	SM 9230B	x	x	
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x		x
Glyphosate + AMPA	In House Method (3618)	x		x
Gross Alpha/Beta	EPA 900.0	x	x	x
Gross Alpha Coprecipitation	SM 7110 C	x	x	x
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	SM 9215 B	x		x
Hexavalent Chromium	EPA 218.6	x	x	x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ-mental (Drinking Water)	Environ-mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
Hexavalent Chromium	EPA 218.7	x		x
Hexavalent Chromium	SM 3500-Cr B		x	
Hormones	EPA 539	x		x
Hydroxide as OH Calc.	SM 2330B	x		x
Kjeldahl Nitrogen	EPA 351.2		x	
Legionella	Legiolert	x		x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA (2360)	x		x
Microcystin, Total	EPA 546	x		x
NDMA	EPA 521 In house method (2425)	x		x
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x		x
Ortho Phosphate	EPA 365.1	x	x	x
Ortho Phosphorous	SM 4500P E	x		x
Oxyhalides Disinfection Byproducts	EPA 317.0	x		x
Perchlorate	EPA 331.0	x		x
Perchlorate (low and high)	EPA 314.0	x		x
Perfluorinated Alkyl Acids	EPA 537	x		x
Perfluorinated Pollutant	In house Method (2434)	x		x
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method, based on EPA 532 (2448)	x		x
Pseudomonas	IDEXX Pseudalert (2461)	x		x
Radium-226	GA Institute of Tech	x		x
Radium-228	GA Institute of Tech	x		x
Radon-222	SM 7500RN	x		x
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D		x	
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4		x	
Semi-VOC	EPA 525.2	x		x
Silica	SM 4500-Si D	x	x	
Silica	SM 4500-SiO2 C	x	x	
Sulfide	SM 4500-S ²⁻ D		x	
Sulfite	SM 4500-SO ³⁻ B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x		x
Total Coliform (P/A)	SM 9221 A, B	x		x
Total Coliform (Enumeration)	SM 9221 A, B, C	x		x
Total Coliform / E. coli	Colisure SM 9223	x		x
Total Coliform	SM 9221B		x	
Total Coliform with Chlorine Present	SM 9221B		x	
Total Coliform / E.coli (P/A and Enumeration)	SM 9223	x		x
TOC	SM 5310C	x	x	x
TOX	SM 5320B		x	
Total Phenols	EPA 420.1		x	
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P E		x	
Triazine Pesticides	In House (3617)	x		x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x	x	
Uranium by ICP/MS	EPA 200.8	x		x
UV 254	SM 5910B	x		
VOC	EPA 524.2	x		x
VOC	In House Method (2411)	x		x
Yeast and Mold	SM 9610	x		x

Acknowledgement of Samples Received

Addr: **Colorado Analytical Laboratories Inc**
240 S Main Street
Brighton, CO 80601

Client ID: CAL-CO
Folder #: 762125
Project: NON-COMPLIANCE (180911125)
Sample Group: Color

Attn: Stuart Nielson
Phone: 303-659-2313

Project Manager: Shea Greiner
Phone: (720) 491-1749

The following samples were received from you on **September 13, 2018 at 1819**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

Sample #	Sample ID	Sample Date
201809140325	180911125-01F MW-1	09/11/2018 1427
	Apparent Color	

Test Description

762725



Colorado Analytical
Laboratories, Inc.

Brighton Lab

**240 South Main Street
Brighton, CO 80601**

Lakewood Lab

**12860 W. Cedar Dr, Suite 100A
Lakewood CO 80228**

Phone: 303-659-2313

Fax: 303-659-2315

www.coloradolab.com

Report To Information		Bill To Information (If different from report to)		Project Name
Company Name: <u>Colorado Analytical</u>		Company Name: <u>Same As Report To</u>		<u>180911125</u>
Contact Name: <u>Stuart Nielson</u>		Contact Name: _____		<u>Mill Iron 2354-01</u>
Address: <u>240 S. Main St.</u> _____ _____ City <u>Brighton</u> State <u>CO</u> Zip <u>80601</u>		Address: _____ _____ City _____ State ____ Zip _____		Task Number (Lab Use Only) CAL Task No. 180911125 ARF
Phone: <u>3036592313</u> Fax: <u>3036592315</u>		Phone: _____ Fax: _____		
Email: <u>stuartnielson@coloradolab.com</u>		Email: _____		
Sample Collector: <u>Valene Lickley</u>		PO No.: _____		Disposal Date (Lab Use Only)

[illegible]



Eaton Analytical

INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number: 762125

SAMPLE TEMP RECEIVED:
Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not.
SAMPLES REC'D DAY OF COLLECTION? Yes (No)

IR Gun ID = 6304 (Observation = 1.3 °C) (Corr. Factor = -0.2 °C) (Final = 1.1 °C)
CONDITION OF ICE: Frozen ☒ Partially Frozen _____ Thawed _____ N/A _____

TYPE OF ICE: Real ☒ Synthetic _____ No Ice _____
METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

Compliance Acceptance Criteria:

- 1) Chemistry: >0, ≤ 6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)
- 2) Microbiology, Distribution: < 10°C, not frozen (can be ≥ 10°C if received on ice the same day as sample collection, within 8 hours)
- 3) Microbiology, Surface Water: < 10°C (if received after 2 hours of sample collection)

If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants

1 - (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)	2 - (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)
3 - (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)	4 - (Observation = _____ °C) (Corr. Factor = _____ °C) (Final = _____ °C)

4 Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)
Lot Number: _____ pH strip type: 0 - 14 or _____ Expiration Date: _____ Results: _____

5) pH Check. Manufacturer: _____ Lot No.: _____ Expiration Date: _____ Results: _____
6) Chlorine check. Manufacturer: Sansafe. Lot No.: _____ Expiration Date: _____ Results: _____

7) VOA Headspace: _____ No Samples with Headspace (see below): _____
Headspace Documentation (use additional VOC Internal COFC for additional bottles)
Exempt from headspace concerns: Methods 816.4, HAA(8261,852), 505, SPME, @CH, 532LCMS, 566, 536, Anatoxin, LCMS methods using 40 ml vials, International clients: _____

Sample ID	Bottle #	mm	None/<6	>6mm
Sample ID	Bottle #	mm	None/<6	>6mm
Sample ID	Bottle #	mm	None/<6	>6mm
Sample ID	Bottle #	mm	None/<6	>6mm
Sample ID	Bottle #	mm	None/<6	>6mm
Sample ID	Bottle #	mm	None/<6	>6mm
Sample ID	Bottle #	mm	None/<6	>6mm
Sample ID	Bottle #	mm	None/<6	>6mm
Sample ID	Bottle #	mm	None/<6	>6mm
Sample ID	Bottle #	mm	None/<6	>6mm

Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors): _____
RECEIVED BY: [Signature] PRINT NAME: Victor Passaric COMPANY/TITLE: Eurofins Eaton Analytical DATE: 9/13/18 TIME: 1819

Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Comments

Report: 762125
Project: NON-COMPLIANCE (180911125)
Group: Color

Colorado Analytical Laboratories Inc
Stuart Nielson
240 S Main Street
Brighton, CO 80601

Flags Legend:

- D4 - Minimum reporting level (MRL) adjusted to reflect sample amount received and analyzed.
- H3 - Sample was received and/ or analysis requested past holding time.

Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Hits

Report: 762125
Project: NON-COMPLIANCE (180911125)
Group: Color

Colorado Analytical Laboratories Inc
Stuart Nielson
240 S Main Street
Brighton, CO 80601

Samples Received on:
09/13/2018 1819

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
----------	---------	-----------	--------	-------------	-------	-----

Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Data

Report: 762125
Project: NON-COMPLIANCE (180911125)
Group: Color

Colorado Analytical Laboratories Inc
Stuart Nielson
240 S Main Street
Brighton, CO 80601

Samples Received on:
09/13/2018 1819

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
<u>180911125-01F MW-1 (201809140325)</u>						Sampled on 09/11/2018 1427			
SM 2120B - Apparent Color									
09/13/18 19:09		1118367		(SM 2120B)	Apparent Color	ND (D4,H3)	ACU	60	20

Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory QC Summary

Report: 762125
Project: NON-COMPLIANCE (180911125)
Group: Color

Colorado Analytical Laboratories Inc

Apparent Color

Analytical Batch: 1118367

201809140325

180911125-01F MW-1

Analysis Date: 09/13/2018

Analyzed by: H5VG

Tel: (626) 386-1100
 Fax: (866) 988-3757
 1 800 566 LABS (1 800 566 5227)

Report: 762125
Project: NON-COMPLIANCE (180911125)
Group: Color

Colorado Analytical Laboratories Inc

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
Apparent Color by SM 2120B									
Analytical Batch: 1118367					Analysis Date: 09/13/2018				
DUP1_201809130293	Apparent Color	ND		ND	ACU		(0-20)		
DUP2_201809130113	Apparent Color	ND		ND	ACU		(0-20)		
MBLK	Apparent Color			<0.5	ACU				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

Analytical Results

TASK NO: 180911125

Report To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Bill To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Task No.: 180911125
Client PO: 2354-01
Client Project: Mill Iron 2354-01

Date Received: 9/11/18
Date Reported: 10/4/18
Matrix: Water - Ground

Customer Sample ID MW-1

Sample Date/Time: 9/11/18 2:27 PM

Lab Number: 180911125-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
Bicarbonate	213.9 mg/L as CaCO ₃	SM 2320-B	0.1	9/14/18	MBN
Calcium as CaCO ₃	375.8 mg/L	EPA 200.7	0.1	9/14/18	MBN
Carbonate	< 0.1 mg/L as CaCO ₃	SM 2320-B	0.1	9/14/18	MBN
Hydroxide	< 0.1 mg/L as CaCO ₃	SM 2320-B	0.1	9/14/18	MBN
Langelier Index	0.13 units	SM 2330-B		9/17/18	SAN
pH	7.09 units	SM 4500-H-B	0.01	9/11/18	MBN
Temperature	20 °C	SM 4500-H-B	1	9/11/18	MBN
Total Alkalinity	213.9 mg/L as CaCO ₃	SM 2320-B	0.1	9/14/18	MBN
Total Dissolved Solids	517 mg/L	SM 2540-C	5	9/14/18	ISG

Abbreviations/ References:

ML = Minimum Level = LRL = RL

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

Brighton Lab

Lakewood Lab

Phone: 303-659-2313
Fax: 303-659-2315

Report To Information		Bill To Information (If different from report to)		Project Name
Company Name: <u>AgProFessionals</u>	Company Name: _____		<u>Mill Iron</u>	
Contact Name: <u>Paul Miller</u>	Contact Name: _____		<u>2354-01</u>	
Address: <u>3050 67th Avenue, Suite 200</u> _____ _____ _____	Address: _____ _____ _____	Task Number (Lab Use Only) CAL Task No. <u>180911125</u>		
City <u>Greely</u> State <u>CO</u> Zip <u>80634</u>	City _____ State _____ Zip _____	ARF		
Phone: <u>970-535-4318</u> Fax: _____	Phone: _____ Fax: _____	Disposal Date (Lab Use Only)		
Email: <u>pmiller@agprofs.com</u>	Email: _____			
Sample Collector: <u>Valene Lickely</u>	PO No.: <u>2354-01</u>			

Page 2 of 2

Analytical Results

TASK NO: 180911125

Report To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Bill To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Task No.: 180911125
Client PO: 2354-01
Client Project: Mill Iron 2354-01

Date Received: 9/11/18
Date Reported: 10/4/18
Matrix: Water - Ground

Customer Sample ID MW-1

Sample Date/Time: 9/11/18 2:27 PM

Lab Number: 180911125-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
Chloride	44.73 mg/L	EPA 300.0	0.01 mg/L	9/12/18	SEA
Cyanide-Free	< 0.005 mg/L	EPA 335.4	0.005 mg/L	9/13/18	LJG
Fluoride	0.86 mg/L	EPA 300.0	0.09 mg/L	9/12/18	SEA
Nitrate Nitrogen	11.08 mg/L	EPA 300.0	0.05 mg/L	9/12/18	SEA
Nitrate/ Nitrite Nitrogen	11.08 mg/L	Calculation	0.05 mg/L	9/12/18	SEA
Nitrite Nitrogen	< 0.03 mg/L	EPA 300.0	0.03 mg/L	9/12/18	SEA
Phenols - Total	0.11 mg/L	EPA 420.1	0.05 mg/L	9/13/18	LJG
Sulfate	475.59 mg/L	EPA 300.0	0.01 mg/L	9/12/18	SEA
<u>Dissolved</u>					
Aluminum	0.784 mg/L	EPA 200.8	0.001 mg/L	9/13/18	DBM
Antimony	< 0.0012 mg/L	EPA 200.8	0.0012 mg/L	9/13/18	DBM
Arsenic	0.0007 mg/L	EPA 200.8	0.0006 mg/L	9/13/18	DBM
Barium	0.0417 mg/L	EPA 200.8	0.0007 mg/L	9/13/18	DBM
Beryllium	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	9/13/18	DBM
Boron	0.24 mg/L	EPA 200.7	0.01 mg/L	9/14/18	MBN
Cadmium	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	9/13/18	DBM
Chromium	< 0.0015 mg/L	EPA 200.8	0.0015 mg/L	9/13/18	DBM
Chromium - Hexavalent	< 0.01 mg/L	SM 3500-Cr B	0.01 mg/L	9/11/18	SEA
Chromium - Trivalent	< 0.01 mg/L	Calculation	0.01 mg/L	9/12/18	DBM
Cobalt	0.0002 mg/L	EPA 200.8	0.0002 mg/L	9/13/18	DBM
Copper	0.0022 mg/L	EPA 200.8	0.0008 mg/L	9/13/18	DBM

Abbreviations/ References:

ML = Minimum Level = LRL = RL
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

240 South Main Street / Brighton, CO 80601-0507 / 303-659-2313
Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 / Fax: 303-659-2315

Analytical Results

TASK NO: 180911125

Report To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Bill To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Task No.: 180911125
Client PO: 2354-01
Client Project: Mill Iron 2354-01

Date Received: 9/11/18
Date Reported: 10/4/18
Matrix: Water - Ground

Customer Sample ID MW-1

Sample Date/Time: 9/11/18 2:27 PM

Lab Number: 180911125-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
<u>Dissolved</u>					
Iron	0.279 mg/L	EPA 200.7	0.005 mg/L	9/14/18	MBN
Lead	0.0002 mg/L	EPA 200.8	0.0001 mg/L	9/13/18	DBM
Manganese	0.0056 mg/L	EPA 200.8	0.0008 mg/L	9/13/18	DBM
Molybdenum	0.0035 mg/L	EPA 200.8	0.0005 mg/L	9/13/18	DBM
Nickel	< 0.0009 mg/L	EPA 200.8	0.0009 mg/L	9/13/18	DBM
Selenium	0.0069 mg/L	EPA 200.8	0.0008 mg/L	9/13/18	DBM
Silver	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	9/13/18	DBM
Thallium	< 0.0002 mg/L	EPA 200.8	0.0002 mg/L	9/13/18	DBM
Uranium	0.0359 mg/L	EPA 200.8	0.0002 mg/L	9/13/18	DBM
Vanadium	0.002 mg/L	EPA 200.8	0.001 mg/L	9/13/18	DBM
Zinc	< 0.001 mg/L	EPA 200.8	0.001 mg/L	9/13/18	DBM

Abbreviations/ References:

ML = Minimum Level = LRL = RL
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

240 South Main Street / Brighton, CO 80601-0507 / 303-659-2313
Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 / Fax: 303-659-2315

 Colorado Analytical
Laboratories, Inc.

Brighton Lab
240 South Main Street
Brighton, CO 80601
Lakewood Lab
12860 W. Cedar Dr., Suite 100A
Lakewood CO 80228

Phone: 303-659-2313
Fax: 303-659-2315

www.coloradolab.com

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ANALYTICAL SUMMARY REPORT

September 21, 2018

Colorado Analytical Laboratories Inc
PO Drawer 507
Brighton, CO 80601

Work Order: C18090398 Quote ID: C5210 - 624, 625, 1,4-Dioxane

Project Name: 180911125 Mill Iron 2354-01

Energy Laboratories, Inc. Casper WY received the following 1 sample for Colorado Analytical Laboratories Inc on 9/12/2018 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C18090398-001	180911125-01 MW-1	09/11/18 14:27	09/12/18	Groundwater	Foaming Agents Separatory Funnel Liquid-Liquid Ext. Semi-Volatile Organic Compounds

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call.

Report Approved By:



CLIENT: Colorado Analytical Laboratories Inc
Project: 180911125 Mill Iron 2354-01
Work Order: C18090398

Report Date: 09/21/18

CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc
Project: 180911125 Mill Iron 2354-01
Lab ID: C18090398-001
Client Sample ID: 180911125-01 MW-1

Report Date: 09/21/18
Collection Date: 09/11/18 14:27
Date Received: 09/12/18
Matrix: Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Surfactants, MBAS	ND	mg/L	H	1		LaMotte DS-1	09/13/18 16:32 / eli-b
SEMI-VOLATILE ORGANIC COMPOUNDS							
Acenaphthene	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
Acenaphthylene	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
Anthracene	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
Azobenzene	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
Benzidine	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
Benzo(a)anthracene	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
Benzo(a)pyrene	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
Benzo(b)fluoranthene	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
Benzo(g,h,i)perylene	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
Benzo(k)fluoranthene	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
4-Bromophenyl phenyl ether	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
Butylbenzylphthalate	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
4-Chloro-3-methylphenol	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
bis(-2-chloroethoxy)Methane	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
bis(-2-chloroethyl)Ether	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
bis(2-chloroisopropyl)Ether	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
2-Chloronaphthalene	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
2-Chlorophenol	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
4-Chlorophenyl phenyl ether	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
Chrysene	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
Diethyl phthalate	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
Di-n-butyl phthalate	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
1,2-Dichlorobenzene	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
1,3-Dichlorobenzene	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
1,4-Dichlorobenzene	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
3,3'-Dichlorobenzidine	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
2,4-Dichlorophenol	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
Dimethyl phthalate	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
Di-n-octyl phthalate	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
Dibenzo(a,h)anthracene	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
2,4-Dimethylphenol	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
4,6-Dinitro-2-methylphenol	ND	ug/L		50	E625.1		09/17/18 17:21 / eli-b
2,4-Dinitrophenol	ND	ug/L		50	E625.1		09/17/18 17:21 / eli-b
2,4-Dinitrotoluene	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
2,6-Dinitrotoluene	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
bis(2-ethylhexyl)Phthalate	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
Fluoranthene	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
Fluorene	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
Hexachlorobenzene	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b
Hexachlorobutadiene	ND	ug/L		10	E625.1		09/17/18 17:21 / eli-b

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

H - Analysis performed past recommended holding time.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc
Project: 180911125 Mill Iron 2354-01
Lab ID: C18090398-001
Client Sample ID: 180911125-01 MW-1

Report Date: 09/21/18
Collection Date: 09/11/18 14:27
Date Received: 09/12/18
Matrix: Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SEMI-VOLATILE ORGANIC COMPOUNDS							
Hexachlorocyclopentadiene	ND	ug/L		10		E625.1	09/17/18 17:21 / eli-b
Hexachloroethane	ND	ug/L		10		E625.1	09/17/18 17:21 / eli-b
Indeno(1,2,3-cd)pyrene	ND	ug/L		10		E625.1	09/17/18 17:21 / eli-b
Isophorone	ND	ug/L		10		E625.1	09/17/18 17:21 / eli-b
n-Nitrosodimethylamine	ND	ug/L		10		E625.1	09/17/18 17:21 / eli-b
n-Nitroso-di-n-propylamine	ND	ug/L		10		E625.1	09/17/18 17:21 / eli-b
n-Nitrosodiphenylamine	ND	ug/L		10		E625.1	09/17/18 17:21 / eli-b
2-Nitrophenol	ND	ug/L		10		E625.1	09/17/18 17:21 / eli-b
4-Nitrophenol	ND	ug/L		50		E625.1	09/17/18 17:21 / eli-b
Naphthalene	ND	ug/L		10		E625.1	09/17/18 17:21 / eli-b
Nitrobenzene	ND	ug/L		10		E625.1	09/17/18 17:21 / eli-b
Pentachlorophenol	ND	ug/L		50		E625.1	09/17/18 17:21 / eli-b
Phenanthrene	ND	ug/L		10		E625.1	09/17/18 17:21 / eli-b
Phenol	ND	ug/L		10		E625.1	09/17/18 17:21 / eli-b
Pyrene	ND	ug/L		10		E625.1	09/17/18 17:21 / eli-b
1,2,4-Trichlorobenzene	ND	ug/L		10		E625.1	09/17/18 17:21 / eli-b
2,4,6-Trichlorophenol	ND	ug/L		10		E625.1	09/17/18 17:21 / eli-b
Surr: 2-Fluorobiphenyl	58.0	%REC		14-128		E625.1	09/17/18 17:21 / eli-b
Surr: 2-Fluorophenol	34.0	%REC		21-86		E625.1	09/17/18 17:21 / eli-b
Surr: Nitrobenzene-d5	59.0	%REC		27-126		E625.1	09/17/18 17:21 / eli-b
Surr: Phenol-d5	26.0	%REC		16-68		E625.1	09/17/18 17:21 / eli-b
Surr: Terphenyl-d14	45.0	%REC		24-148		E625.1	09/17/18 17:21 / eli-b
Surr: 2,4,6-Tribromophenol	52.0	%REC		43-122		E625.1	09/17/18 17:21 / eli-b

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 09/21/18

Project: 180911125 Mill Iron 2354-01

Work Order: C18090398

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625.1							Batch: 125436		
Lab ID: MB-125436	Method Blank		Run: SV5973N.I_180917A				09/17/18 16:17		
Acenaphthene	ND	ug/L	10						
Acenaphthylene	ND	ug/L	10						
Anthracene	ND	ug/L	10						
Azobenzene	ND	ug/L	10						
Benzidine	ND	ug/L	10						
Benzo(a)anthracene	ND	ug/L	10						
Benzo(a)pyrene	ND	ug/L	10						
Benzo(b)fluoranthene	ND	ug/L	10						
Benzo(g,h,i)perylene	ND	ug/L	10						
Benzo(k)fluoranthene	ND	ug/L	10						
4-Bromophenyl phenyl ether	ND	ug/L	10						
Butylbenzylphthalate	ND	ug/L	10						
4-Chloro-3-methylphenol	ND	ug/L	10						
bis(-2-chloroethoxy)Methane	ND	ug/L	10						
bis(-2-chloroethyl)Ether	ND	ug/L	10						
bis(2-chloroisopropyl)Ether	ND	ug/L	10						
2-Chloronaphthalene	ND	ug/L	10						
2-Chlorophenol	ND	ug/L	10						
4-Chlorophenyl phenyl ether	ND	ug/L	10						
Chrysene	ND	ug/L	10						
Diethyl phthalate	ND	ug/L	10						
Di-n-butyl phthalate	ND	ug/L	10						
1,2-Dichlorobenzene	ND	ug/L	10						
1,3-Dichlorobenzene	ND	ug/L	10						
1,4-Dichlorobenzene	ND	ug/L	10						
3,3'-Dichlorobenzidine	ND	ug/L	10						
2,4-Dichlorophenol	ND	ug/L	10						
Dimethyl phthalate	ND	ug/L	10						
Di-n-octyl phthalate	ND	ug/L	10						
Dibenzo(a,h)anthracene	ND	ug/L	10						
2,4-Dimethylphenol	ND	ug/L	10						
4,6-Dinitro-2-methylphenol	ND	ug/L	50						
2,4-Dinitrophenol	ND	ug/L	50						
2,4-Dinitrotoluene	ND	ug/L	10						
2,6-Dinitrotoluene	ND	ug/L	10						
bis(2-ethylhexyl)Phthalate	ND	ug/L	10						
Fluoranthene	ND	ug/L	10						
Fluorene	ND	ug/L	10						
Hexachlorobenzene	ND	ug/L	10						
Hexachlorobutadiene	ND	ug/L	10						
Hexachlorocyclopentadiene	ND	ug/L	10						
Hexachloroethane	ND	ug/L	10						
Indeno(1,2,3-cd)pyrene	ND	ug/L	10						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 09/21/18

Project: 180911125 Mill Iron 2354-01

Work Order: C18090398

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625.1							Batch: 125436		
Lab ID: MB-125436	Method Blank		Run: SV5973N.I_180917A				09/17/18 16:17		
Isophorone	ND	ug/L	10						
n-Nitrosodimethylamine	ND	ug/L	10						
n-Nitroso-di-n-propylamine	ND	ug/L	10						
n-Nitrosodiphenylamine	ND	ug/L	10						
2-Nitrophenol	ND	ug/L	10						
4-Nitrophenol	ND	ug/L	50						
Naphthalene	ND	ug/L	10						
Nitrobenzene	ND	ug/L	10						
Pentachlorophenol	ND	ug/L	50						
Phenanthrene	ND	ug/L	10						
Phenol	ND	ug/L	10						
Pyrene	ND	ug/L	10						
1,2,4-Trichlorobenzene	ND	ug/L	10						
2,4,6-Trichlorophenol	ND	ug/L	10						
Surr: 2-Fluorobiphenyl			10	55	14	128			
Surr: 2-Fluorophenol			10	37	21	86			
Surr: Nitrobenzene-d5			10	61	27	126			
Surr: Phenol-d5			10	31	16	68			
Surr: Terphenyl-d14			10	76	24	148			
Surr: 2,4,6-Tribromophenol			10	62	43	122			
Lab ID: LCS-125436	Laboratory Control Sample		Run: SV5973N.I_180917A				09/17/18 16:49		
Acenaphthene	68.4	ug/L	10	68	58	99			
Acenaphthylene	64.1	ug/L	10	64	57	96			
Anthracene	69.6	ug/L	10	70	60	107			
Azobenzene	66.8	ug/L	10	67	56	100			
Benzidine	121	ug/L	10	61	10	100			
Benzo(a)anthracene	70.2	ug/L	10	70	62	114			
Benzo(a)pyrene	66.4	ug/L	10	66	62	108			
Benzo(b)fluoranthene	64.3	ug/L	10	64	48	127			
Benzo(g,h,i)perylene	66.9	ug/L	10	67	62	121			
Benzo(k)fluoranthene	62.0	ug/L	10	62	55	111			
4-Bromophenyl phenyl ether	72.9	ug/L	10	73	58	105			
Butylbenzylphthalate	68.7	ug/L	10	69	60	113			
4-Chloro-3-methylphenol	59.7	ug/L	10	60	53	92			
bis(-2-chloroethoxy)Methane	52.4	ug/L	10	52	50	92			
bis(-2-chloroethyl)Ether	58.2	ug/L	10	58	44	82			
bis(2-chloroisopropyl)Ether	52.6	ug/L	10	53	39	139			
2-Chloronaphthalene	63.6	ug/L	10	64	56	95			
2-Chlorophenol	52.6	ug/L	10	53	47	76			
4-Chlorophenyl phenyl ether	69.6	ug/L	10	70	58	99			
Chrysene	73.8	ug/L	10	74	63	106			
Diethyl phthalate	70.8	ug/L	10	71	58	103			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 09/21/18

Project: 180911125 Mill Iron 2354-01

Work Order: C18090398

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625.1							Batch: 125436		
Lab ID: LCS-125436	Laboratory Control Sample				Run: SV5973N.I_180917A		09/17/18 16:49		
Di-n-butyl phthalate	69.4	ug/L	10	69	61	110			
1,2-Dichlorobenzene	58.1	ug/L	10	58	43	81			
1,3-Dichlorobenzene	57.1	ug/L	10	57	41	79			
1,4-Dichlorobenzene	56.4	ug/L	10	56	42	79			
3,3'-Dichlorobenzidine	91.0	ug/L	10	45	24	119			
2,4-Dichlorophenol	57.2	ug/L	10	57	49	90			
Dimethyl phthalate	65.9	ug/L	10	66	58	104			
Di-n-octyl phthalate	62.2	ug/L	10	62	56	110			
Dibenzo(a,h)anthracene	68.2	ug/L	10	68	61	111			
2,4-Dimethylphenol	54.5	ug/L	10	54	45	89			
4,6-Dinitro-2-methylphenol	42.4	ug/L	50	42	37	105			
2,4-Dinitrophenol	31.5	ug/L	50	32	27	81			
2,4-Dinitrotoluene	69.4	ug/L	10	69	63	110			
2,6-Dinitrotoluene	69.6	ug/L	10	70	60	107			
bis(2-ethylhexyl)Phthalate	66.5	ug/L	10	67	56	108			
Fluoranthene	70.2	ug/L	10	70	63	110			
Fluorene	69.1	ug/L	10	69	60	99			
Hexachlorobenzene	67.0	ug/L	10	67	57	103			
Hexachlorobutadiene	54.7	ug/L	10	55	39	83			
Hexachlorocyclopentadiene	54.4	ug/L	10	54	39	91			
Hexachloroethane	54.0	ug/L	10	54	37	75			
Indeno(1,2,3-cd)pyrene	66.0	ug/L	10	66	59	109			
Isophorone	60.1	ug/L	10	60	42	102			
n-Nitrosodimethylamine	29.1	ug/L	10	29	20	45			
n-Nitroso-di-n-propylamine	68.9	ug/L	10	69	49	98			
n-Nitrosodiphenylamine	71.3	ug/L	10	71	61	108			
2-Nitrophenol	54.9	ug/L	10	55	51	96			
4-Nitrophenol	20.0	ug/L	50	20	15	36			
Naphthalene	56.5	ug/L	10	57	48	96			
Nitrobenzene	56.8	ug/L	10	57	51	91			
Pentachlorophenol	65.8	ug/L	50	66	53	109			
Phenanthrene	70.2	ug/L	10	70	58	104			
Phenol	33.4	ug/L	10	33	27	45			
Pyrene	74.4	ug/L	10	74	64	108			
1,2,4-Trichlorobenzene	58.2	ug/L	10	58	36	78			
2,4,6-Trichlorophenol	60.3	ug/L	10	60	47	99			
Surr: 2-Fluorobiphenyl			10	58	14	128			
Surr: 2-Fluorophenol			10	36	21	86			
Surr: Nitrobenzene-d5			10	62	27	126			
Surr: Phenol-d5			10	33	16	68			
Surr: Terphenyl-d14			10	72	24	148			
Surr: 2,4,6-Tribromophenol			10	61	43	122			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 09/21/18

Project: 180911125 Mill Iron 2354-01

Work Order: C18090398

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625.1									Batch: 125436
Lab ID: B18091137-001CMS	Sample Matrix Spike		Run: SV5973N.I_180917A				09/17/18 18:24		
Acenaphthene	34.6	ug/L	10	35	58	99			S
Acenaphthylene	35.8	ug/L	10	36	57	96			S
Anthracene	26.4	ug/L	10	26	60	107			S
Azobenzene	31.3	ug/L	10	31	56	100			S
Benidine	27.6	ug/L	10	28	10	100			
Benzo(a)anthracene	19.0	ug/L	10	19	62	114			S
Benzo(a)pyrene	18.3	ug/L	10	18	62	108			S
Benzo(b)fluoranthene	15.8	ug/L	10	16	48	127			S
Benzo(g,h,i)perylene	16.2	ug/L	10	16	62	121			S
Benzo(k)fluoranthene	15.8	ug/L	10	16	55	111			S
4-Bromophenyl phenyl ether	21.0	ug/L	10	21	58	105			S
Butylbenzylphthalate	26.8	ug/L	10	27	60	113			S
4-Chloro-3-methylphenol	50.0	ug/L	10	50	53	92			S
bis(-2-chloroethoxy)Methane	44.9	ug/L	10	45	50	92			S
bis(-2-chloroethyl)Ether	21.6	ug/L	10	22	44	82			S
bis(2-chloroisopropyl)Ether	37.2	ug/L	10	37	39	139			S
2-Chloronaphthalene	36.0	ug/L	10	36	56	95			S
2-Chlorophenol	45.7	ug/L	10	46	47	76			S
4-Chlorophenyl phenyl ether	24.1	ug/L	10	24	58	99			S
Chrysene	17.2	ug/L	10	17	63	106			S
Diethyl phthalate	47.7	ug/L	10	48	58	103			S
Di-n-butyl phthalate	25.0	ug/L	10	25	61	110			S
1,2-Dichlorobenzene	39.0	ug/L	10	39	43	81			S
1,3-Dichlorobenzene	37.1	ug/L	10	37	41	79			S
1,4-Dichlorobenzene	37.4	ug/L	10	37	42	79			S
3,3'-Dichlorobenzidine	36.4	ug/L	10	36	24	119			
2,4-Dichlorophenol	48.4	ug/L	10	48	49	90			S
Dimethyl phthalate	44.4	ug/L	10	44	58	104			S
Di-n-octyl phthalate	23.6	ug/L	10	16	56	110			S
Dibenzo(a,h)anthracene	21.9	ug/L	10	22	61	111			S
2,4-Dimethylphenol	48.3	ug/L	10	48	45	89			
4,6-Dinitro-2-methylphenol	29.2	ug/L	50	29	37	105			S
2,4-Dinitrophenol	24.7	ug/L	50	25	27	81			S
2,4-Dinitrotoluene	46.9	ug/L	10	47	63	110			S
2,6-Dinitrotoluene	47.1	ug/L	10	47	60	107			S
bis(2-ethylhexyl)Phthalate	20.6	ug/L	10	14	56	108			S
Fluoranthene	19.3	ug/L	10	19	63	110			S
Fluorene	33.3	ug/L	10	33	60	99			S
Hexachlorobenzene	12.7	ug/L	10	13	57	103			S
Hexachlorobutadiene	21.1	ug/L	10	21	39	83			S
Hexachlorocyclopentadiene	6.18	ug/L	10	6	39	91			S
Hexachloroethane	29.1	ug/L	10	29	37	75			S
Indeno(1,2,3-cd)pyrene	20.8	ug/L	10	21	59	109			S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 09/21/18

Project: 180911125 Mill Iron 2354-01

Work Order: C18090398

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625.1							Batch: 125436		
Lab ID: B18091137-001CMS	Sample Matrix Spike				Run: SV5973N.I_180917A		09/17/18 18:24		
Isophorone	46.4	ug/L	10	46	42	102			
n-Nitrosodimethylamine	27.3	ug/L	10	27	20	45			
n-Nitroso-di-n-propylamine	51.4	ug/L	10	51	49	98			
n-Nitrosodiphenylamine	41.8	ug/L	10	42	61	108			S
2-Nitrophenol	47.9	ug/L	10	48	51	96			S
4-Nitrophenol	18.8	ug/L	50	19	15	36			
Naphthalene	44.4	ug/L	10	44	48	96			S
Nitrobenzene	43.6	ug/L	10	44	51	91			S
Pentachlorophenol	54.5	ug/L	50	55	53	109			
Phenanthrene	25.7	ug/L	10	26	58	104			S
Phenol	46.1	ug/L	10	31	27	45			
Pyrene	19.1	ug/L	10	19	64	108			S
1,2,4-Trichlorobenzene	37.7	ug/L	10	38	36	78			
2,4,6-Trichlorophenol	44.2	ug/L	10	44	47	99			S
Surr: 2-Fluorobiphenyl			10	31	14	128			
Surr: 2-Fluorophenol			10	29	21	86			
Surr: Nitrobenzene-d5			10	48	27	126			
Surr: Phenol-d5			10	28	16	68			
Surr: Terphenyl-d14			10	40	24	148			
Surr: 2,4,6-Tribromophenol			10	40	43	122			S

- Lower than normal spike recoveries appear to be due to the sample matrix. Recoveries were normal in the associated Laboratory Control Sample (LCS).

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 09/21/18

Project: 180911125 Mill Iron 2354-01

Work Order: C18090398

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625.1							Analytical Run: R307547		
Lab ID: 17-Sep-18_CCV_2	Continuing Calibration Verification Standard							09/17/18 15:46	
Acenaphthene	71.0	ug/L	10	95	80	120			
Acenaphthylene	72.1	ug/L	10	96	80	120			
Anthracene	69.6	ug/L	10	93	80	120			
Azobenzene	69.8	ug/L	10	93	80	120			
Benzidine	69.9	ug/L	10	93	80	120			
Benzo(a)anthracene	72.4	ug/L	10	97	80	120			
Benzo(a)pyrene	68.0	ug/L	10	91	80	120			
Benzo(b)fluoranthene	66.5	ug/L	10	89	80	120			
Benzo(g,h,i)perylene	66.8	ug/L	10	89	80	120			
Benzo(k)fluoranthene	65.3	ug/L	10	87	80	120			
4-Bromophenyl phenyl ether	70.5	ug/L	10	94	80	120			
Butylbenzylphthalate	70.7	ug/L	10	94	80	120			
4-Chloro-3-methylphenol	69.4	ug/L	10	92	80	120			
bis(-2-chloroethoxy)Methane	68.9	ug/L	10	92	80	120			
bis(-2-chloroethyl)Ether	73.2	ug/L	10	98	80	120			
bis(2-chloroisopropyl)Ether	78.9	ug/L	10	105	80	120			
2-Chloronaphthalene	66.6	ug/L	10	89	80	120			
2-Chlorophenol	70.7	ug/L	10	94	80	120			
4-Chlorophenyl phenyl ether	73.2	ug/L	10	98	80	120			
Chrysene	72.8	ug/L	10	97	80	120			
Diethyl phthalate	72.0	ug/L	10	96	80	120			
Di-n-butyl phthalate	65.6	ug/L	10	87	80	120			
1,2-Dichlorobenzene	73.2	ug/L	10	98	80	120			
1,3-Dichlorobenzene	69.7	ug/L	10	93	80	120			
1,4-Dichlorobenzene	69.2	ug/L	10	92	80	120			
3,3'-Dichlorobenzidine	68.1	ug/L	10	91	80	120			
2,4-Dichlorophenol	66.9	ug/L	10	89	80	120			
Dimethyl phthalate	70.3	ug/L	10	94	80	120			
Di-n-octyl phthalate	72.8	ug/L	10	97	80	120			
Dibenzo(a,h)anthracene	71.6	ug/L	10	95	80	120			
2,4-Dimethylphenol	72.1	ug/L	10	96	80	120			
4,6-Dinitro-2-methylphenol	62.3	ug/L	50	83	80	120			
2,4-Dinitrophenol	61.4	ug/L	50	82	80	120			
2,4-Dinitrotoluene	65.9	ug/L	10	88	80	120			
2,6-Dinitrotoluene	73.2	ug/L	10	98	80	120			
bis(2-ethylhexyl)Phthalate	76.9	ug/L	10	102	80	120			
Fluoranthene	67.9	ug/L	10	90	80	120			
Fluorene	71.4	ug/L	10	95	80	120			
Hexachlorobenzene	65.9	ug/L	10	88	80	120			
Hexachlorobutadiene	71.4	ug/L	10	95	80	120			
Hexachlorocyclopentadiene	63.1	ug/L	10	84	80	120			
Hexachloroethane	75.0	ug/L	10	100	80	120			
Indeno(1,2,3-cd)pyrene	71.9	ug/L	10	96	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 09/21/18

Project: 180911125 Mill Iron 2354-01

Work Order: C18090398

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625.1							Analytical Run: R307547		
Lab ID: 17-Sep-18_CCV_2	Continuing Calibration Verification Standard						09/17/18 15:46		
Isophorone	77.9	ug/L	10	104	80	120			
n-Nitrosodimethylamine	65.5	ug/L	10	87	80	120			
n-Nitroso-di-n-propylamine	78.5	ug/L	10	105	80	120			
n-Nitrosodiphenylamine	72.2	ug/L	10	96	80	120			
2-Nitrophenol	69.1	ug/L	10	92	80	120			
4-Nitrophenol	61.3	ug/L	50	82	80	120			
Naphthalene	70.1	ug/L	10	93	80	120			
Nitrobenzene	69.3	ug/L	10	92	80	120			
Pentachlorophenol	78.0	ug/L	50	104	80	120			
Phenanthrene	68.4	ug/L	10	91	80	120			
Phenol	68.8	ug/L	10	92	80	120			
Pyrene	72.4	ug/L	10	97	80	120			
1,2,4-Trichlorobenzene	68.9	ug/L	10	92	80	120			
2,4,6-Trichlorophenol	71.7	ug/L	10	96	80	120			
Surr: 2-Fluorobiphenyl			10	89	80	120			
Surr: 2-Fluorophenol			10	96	80	120			
Surr: Nitrobenzene-d5			10	99	80	120			
Surr: Phenol-d5			10	99	80	120			
Surr: Terphenyl-d14			10	93	80	120			
Surr: 2,4,6-Tribromophenol			10	92	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 09/20/18

Project: 180911125 Mill Iron 2354-01

Work Order: C18090398

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: LaMotte DS-1							Batch: R307319		
Lab ID: MB-R307319	Method Blank				Run: MISC-WC_180913B		09/13/18 16:32		
Surfactants, MBAS	ND	mg/L	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Work Order Receipt Checklist

Colorado Analytical Laboratories Inc

C18090398

Login completed by: Dorian Quis

Date Received: 9/12/2018

Reviewed by: Kasey Vidick

Received by: cns

Reviewed Date: 9/12/2018

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☒	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☐	No ☒	Not Applicable ☐
Container/Temp Blank temperature:	14.8°C No Ice		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☒	No ☐	Not Applicable ☐

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Contact and Corrective Action Comments:

None

**Colorado Analytical
Laboratories, Inc.**

Brighton Lab
240 South Main Street
Brighton, CO 80601

**12860 W. Cedar Dr, Suite 100A
Lakewood CO 80228**

Phone: 303-659-2313
Fax: 303-659-2315

www.coloradolab.com

Report To Information	Bill To Information (If different from report to)		Project Name
Company Name: <u>Colorado Analytical</u>	Company Name: <u>Same As Report To</u>		<u>180911125</u>
Contact Name: <u>Stuart Nielson</u>	Contact Name: _____		<u>Mill Iron - 2354-01</u>
Address: <u>240 S. Main St.</u>	Address: _____ _____		Task Number (Lab Use Only) 
City <u>Brighton</u> State <u>CO</u> Zip <u>80601</u>	City _____ State ____ Zip _____		
Phone: <u>3036592313</u> Fax: <u>3036592315</u>	Phone: _____ Fax: _____		
Email: <u>stuartnielson@coloradolab.com</u>	Email: _____		Disposal Date (Lab Use Only)
Sample Collector: <u>Valen Lickely</u>	PO No.: _____		

[illegible]



September 18, 2018

Subcontract Number: NA
Laboratory Report: RES 418117-1
Project # / P.O. #: None Given
Project Description: None Given

Stuart Nielson
Colorado Analytical Laboratories, Inc.
240 S. Main St.
Brighton CO 80601

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 418117-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

A blue ink signature of Gina Vettriano, written in a cursive style.

Gina Vettriano for

Jeanne Spencer
President

RESERVOIRS ENVIRONMENTAL, INC.
NVLAP Lab Code 101896-0

TABLE I. TEM WATER SAMPLE ANALYTICAL RESULTS

RES Job Number: RES 418117-1
Client: Colorado Analytical Laboratories, Inc.
Client Project Number/P.O.: None Given
Client Project Description: None Given
Date Samples Received: September 12, 2018
Analysis Type: TEM, Water
Turnaround: 3-5 Day
Date Samples Analyzed: September 18, 2018

Client ID Number	Lab ID Number	Aliquot Deposited on Filter (ml)	Dilution Factor	TOTAL Number of Asbestos Structures Detected	Greater than 10 Micron Length Asbestos Structures Detected (million struct/liter)	Analytical Sensitivity (million struct/liter)	TOTAL Asbestos Concentration (million struct/liter)	Greater than 10 Micron Length Asbestos Concentration (million struct/liter)
180912021-01D MV-3	EM 2163665	0.5	0.005	ND	ND	0.03	BAS	ND

NA = Not Analyzed

ND = None Detected

BAS = Below Analytical Sensitivity

Data QA:


Gina Vettrano

Due Date: _____
 Due Time: _____

INVOICE TO: (IF DIFFERENT)

SUBMITTED BY: Company: Colorado Analytical Laboratories, Inc. Address: 240 South Main Street Brighton CO 80601		CONTACT INFORMATION: Contact: Stuart Nielson Phone: 303-659-2313 Fax: _____ Cell/pager: _____ Final Data Deliverable Email Address: stuartnielson@coloradolab.com	
Project Number and/or P.O. #: _____ Project Description/Location: _____			

ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm & Sat. 8am - 5pm		VALID MATRIX CODES		LAB NOTES:	
PLM / PCM / TEM	RUSH (Same Day) PRIORITY (Next Day) STANDARD (3-5 Day)	Air = A	Bulk = B		
	(Rush PCM = 2hr, TEM = 6hr.)	Dust = D	Paint = P		
CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm		Soil = S	Wipe = W		
Metal(s) / Dust**	RUSH 24 hr. 3-5 Day	Swab = SW	F = Food		
RCRA 8 / Metals & Welding	RUSH (3 Day) 5 Day 10 Day	Drinking Water = DW	Waste Water = WW		
Fume Scan / TCLP**	24 hr. 3 day 5 Day	O = Other			
Organics	**Prior notification is required for RUSH turnarounds.**	**ASTM E1792 approved wipe media only**			
MICROBIOLOGY LABORATORY HOURS: Weekdays: 9am - 6pm					
E.coli and/or Coliforms*	24-48 Hour Other: _____				
Pathogens*	24-48 Hour				
Microbial Growth*	5-10 Day *TAT dependent on speed of microbial growth.*				
Legionella	10 Day				
Mold	RUSH 24 Hr. 48 Hr. 3 Day 5 Day				
Turnaround times establish a laboratory priority, subject to laboratory volume and are not guaranteed. Additional fees apply for afterhours, weekends and holidays.					
Special Instructions:					
Client sample ID number (Sample ID's must be unique)					
1	180912010-01D MW-3	Sample Volume (L) / Area	Matrix Code	Date Collected	Time Collected
2		1L	O 1	9/12/2018	920
3					
4					
5					
6					
7					
8					
9					
10					

Number of samples received: 1

(Additional samples shall be listed on attached long form.)

NOTE: REI will analyze incoming samples based upon information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET 30 days, failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By: <i>Stuart Nielson</i> Laboratory Use Only: <i>REI</i>		Date/Time: <i>9/12/18 1100</i> Hand / FedEx / UPS / USPS / Drop Box / Courier		Sample Condition: On Ice Yes / No ☒ Sealed Yes / No ☒ Intact Yes / No ☒	
Received By: <i>Stuart Nielson</i> Data Entry: <i>Stuart Nielson</i>		Date/Time: <i>9/12/18 1000</i> Carrier: <i>100P</i>		Temp. (F°) _____	
Contact	Phone	Email	Fax	Date	Time
Contact	Phone	Email	Fax	Date	Time

Attachment I

Key to Count Sheets
Count Sheets
Analytical Procedures

Structures identifications consist of an Asbestos Type followed by a Structure Type

Asbestos Type

A = Amosite
An = Anthophyllite
C = Chrysotile
Cr = Crocidolite
Trem-Act = Tremolite-Actinolite

Structure Types

F = Fiber
B = Bundle
C = Cluster
M = Matrix

ND = no structures detected
M = other structure associated with a matrix
NAM = Non Asbestos Mineral
XGB = partly obscured by a grid bar

Sizing Conversion

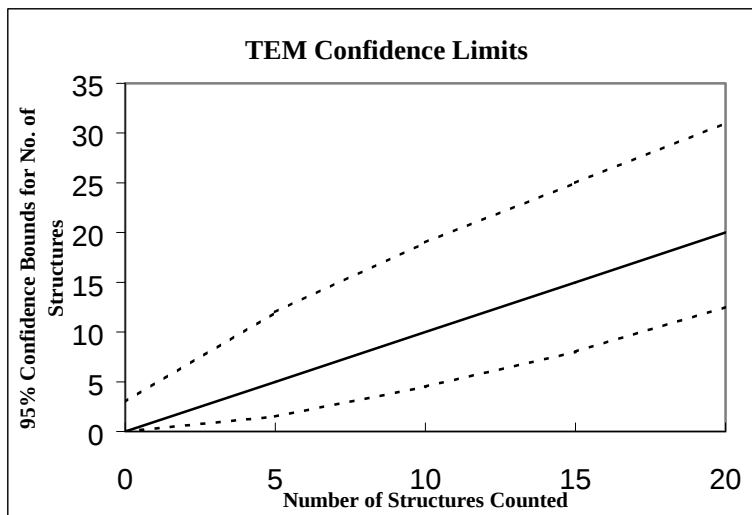
1 length unit = 5 mm on screen = 0.278 micron
1.80 length units = 0.5 micron
18.0 length units = 5 microns

1 width unit = 1 mm on screen = 0.0556 micron

TEM Analysts

Jeanne Spencer
Norberto Zimbleman
Nik Merrill

Paul D. LoScalzo
Sean Flynn
Cameron Powers



Upper and lower 95% confidence bounds for the number of structures counted assuming a Poisson distribution.

Lab Name	Reservoirs Environmental, Inc	Client	Colorado Analytical Laboratories, Inc.	Analyzed By:	NWM
Instrument	JEM-1200EX	Sample Type	Non-Drinking H2O	Analysis Date:	9/18/2018
Voltage	100KV	Aliquot (mL)	0.5	Prep Method:	Indirect
Magnification	20000	Res Number	418117-1	Date Recvd.	9/12/2018
Primary Filter Area (mm2)	385	EM Number	2163665	Storage Loc.	September
Secondary Filter Area (mm2)	346	Sample ID	180912021-01D MV-3	Scope Align.	
Grid Opening Area (mm2)	0.01	Method	TEM Waste Water Analysis		

Grid	GO	Type	Count	Total	Length	Width	ID	MineralClass	Comments	Photo	EDS
A	K3-3	ND								✓	
	H3-3	ND									
	G3-3	ND									
	F3-3	ND									
	E3-3	ND									
B	K4-6	ND									
	H4-6	ND									
	G4-6	ND									
	F4-6	ND									
	E4-6	ND									

*NAM = Non Asbestos Material

Analytical Procedures – AHERA

Transmission electron microscopy/energy dispersive X-ray spectrometry/selected area electron diffraction (TEM/EDX/SAED) was employed in the analysis of the samples, which were collected on 25 mm mixed cellulose ester air filters. A portion of each filter was collapsed with acetone and etched in a plasma asher. The etched filter was then coated with a thin layer of carbon in a carbon side down. The sample was then placed inside a condensation washer and treated with acetone to remove the filter matrix and expose any inert material.

For each sample, enough grid openings on a 200 mesh TEM grid are analyzed to ensure an analytical sensitivity of at least 0.005 structures/cc. A minimum of four grid openings from two preparations are analyzed for each sample. The grid openings are searched for fibrous structures which, if present are analyzed by SAED and/or EDX (elemental analysis). The AHERA protocol requires SAED confirmation of enough chrysotile asbestos structures on each sample to cause the sample to exceed 70 structures/mm² (usually 4 or 5 structures). Both SAED and EDX confirmation are required of enough amphibole structures on each sample to cause the sample to exceed 70 structures/mm² (usually 4 or 5 structures) per sample. Either SAED or EDX is required for the remaining asbestos structures of either type. The morphology of each structure is determined and the length and the diameter of any asbestos structures are recorded. Asbestos fibers, bundles, cluster and matrices were identified and recorded. The asbestos structures have been defined in AHERA as follows:

Fiber:	is a structure having a minimum length greater than or equal to 0.5 micron with an aspect ratio of 5:1 or greater with substantially parallel sides.
Bundle:	is a structure composed of three or more fibers in parallel arrangement, with each fiber closer than the diameter of one fiber.
Cluster:	is a structure with fibers in random arrangements such that all fibers are intermixed and no single fiber is isolated from the group.
Matrix:	is a fiber or fibers with one end free and the other end embedded or hidden by a particulate. The exposed fiber end must meet the fiber definition given above.

If more than 50 asbestos structures are identified and confirmed on a sample, AHERA analysis may be terminated after completion of the grid opening, which contains the 50th structure. AHERA protocol requires the laboratory to reject any clearance sample which contains in excess of 25% total particulate loading or which appears to be unevenly loaded.

The AHERA protocol includes specific sampling requirements, including minimum numbers of samples and minimum air volumes. Specifically, the 70 structures/mm² clearance criteria is only allowed for sets five inside samples (collected in a group of 13 samples including: five outsides and three blanks) with volumes greater than 1200 liters (40 CFR Part 763, page 41894). Deviation from the AHERA sampling protocol may affect the validity of the analytical results. Analysis of samples collected by non-protocol methods are not accredited by NVLAP

Equations Used for Calculations

$$\text{Area Analyzed, mm}^2 = \# \text{ GO counted} \times \text{Average GO Area (mm)}$$

$$\text{Concentration, s/cc} = \frac{\# \text{ Asbestos Structures}}{\# \text{ GO Counted}} \times \frac{1}{\text{Volume (L)}} \times \frac{\text{Eff. Filter Area (mm}^2\text{)}}{\text{Average GO area (mm}^2\text{)}} \times \frac{1\text{L}}{1000\text{cc}}$$

$$\text{Filter loading, s/mm}^2 = \frac{\# \text{ Asbestos structures}}{\text{Area Analyzed (mm}^2\text{)}}$$

GO = TEM grid opening

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)



AT-1807

Laboratory Report

for

Colorado Analytical Laboratories Inc
240 S Main Street
Brighton, CO 80601
Attention: Stuart Nielson
Fax: 303-659-2315

Date of Issue
09/25/2018


**EUROFINS EATON
ANALYTICAL, LLC**

**Utah ELCP CA00006**

TRG6: Shea Greiner
Project Manager

Report: 762124
Project: NON-COMPLIANCE
Group: Color

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.

* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

* Test results relate only to the sample(s) tested.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Arizona	AZ0778	Montana	Cert 0035
Arkansas	Certified	Nebraska	Certified
California-Monrovia-ELAP	2813	Nevada	CA000062018
California-Colton- ELAP	2812	New Hampshire *	2959
Colorado	Certified	New Jersey *	CA 008
Connecticut	PH-0107	New Mexico	Certified
Delaware	CA 006	New York *	11320
Florida *	E871024	North Carolina	06701
Georgia	947	North Dakota	R-009
Guam	18-005R	Oregon *	CA200003-005
Hawaii	Certified	Pennsylvania *	68-565
Idaho	Certified	Puerto Rico	Certified
Illinois *	200033	Rhode Island	LAO00326
Indiana	C-CA-01	South Carolina	87016
Iowa - Asbestos	413	South Dakota	Certified
Kansas *	E-10268	Tennessee	TN02839
Kentucky	90107	Texas *	T104704230-17-13
Louisiana *	LA180000	Utah (Primary AB) *	CA00006
Maine	CA0006	Vermont	VT0114
Maryland	224	Virginia *	460260
Commonwealth of Northern Marianas Is.	MP0004	Washington	C838
Massachusetts	M-CA006	EPA Region 5	Certified
Michigan	9906	Los Angeles County Sanitation Districts	10264

* NELAP/TNI Recognized Accreditation Bodies

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ANAB.
Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ-mental (Drinking Water)	Environ-mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
1,2,3-TCP (5 PPT & 0.5 PPT)	CA SRL 524M-TCP	x		x
1,4-Dioxane	EPA 522	x		x
2,3,7,8-TCDD	Modified EPA 1613B	x		x
Acrylamide	In House Method (2440)	x		x
Algal Toxins/Microcystin	In House Method (3570)			
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x		x
Asbestos	EPA 100.2	x	x	
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method (2447)	x		x
Carbamates	EPA 531.2	x		x
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x		x
COD	EPA 410.4 / SM 5220D		x	
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x		x
Chlorinated Acids	EPA 555	x		x
Chlorine Dioxide	SM 4500-CLO2 D Palin Test	x		x
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1		x	
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x		x
Cyanide, Amenable	SM 4500-CN G	x	x	
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method (2470)	x		x
Diquat and Paraquat	EPA 549.2	x		x
DBP/HAA	SM 6251B	x		x
Dissolved Oxygen	SM 4500-O G		x	x
DOC	SM 5310C	x		x
E. Coli	(MTF/EC+MUG)	x		x
E. Coli	CFR 141.21(f)(6)(i)	x		x
E. Coli	SM 9223		x	
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x		x
E. Coli (Enumeration)	SM 9223B	x		x
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x		x
EDTA and NTA	In House Method (2454)	x		x
Endothall	EPA 548.1	x		x
Endothall	In-house Method (2445)	x		x
Enterococci	SM 9230B	x	x	
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)		x	
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x		x
Fecal Coliform with Chlorine Present	SM 9221E		x	
Fecal Streptococci	SM 9230B	x	x	
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x		x
Glyphosate + AMPA	In House Method (3618)	x		x
Gross Alpha/Beta	EPA 900.0	x	x	x
Gross Alpha Coprecipitation	SM 7110 C	x	x	x
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	SM 9215 B	x		x
Hexavalent Chromium	EPA 218.6	x	x	x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ-mental (Drinking Water)	Environ-mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
Hexavalent Chromium	EPA 218.7	x		x
Hexavalent Chromium	SM 3500-Cr B		x	
Hormones	EPA 539	x		x
Hydroxide as OH Calc.	SM 2330B	x		x
Kjeldahl Nitrogen	EPA 351.2		x	
Legionella	Legiolert	x		x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA (2360)	x		x
Microcystin, Total	EPA 546	x		x
NDMA	EPA 521 In house method (2425)	x		x
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x		x
Ortho Phosphate	EPA 365.1	x	x	x
Ortho Phosphorous	SM 4500P E	x		x
Oxyhalides Disinfection Byproducts	EPA 317.0	x		x
Perchlorate	EPA 331.0	x		x
Perchlorate (low and high)	EPA 314.0	x		x
Perfluorinated Alkyl Acids	EPA 537	x		x
Perfluorinated Pollutant	In house Method (2434)	x		x
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method, based on EPA 532 (2448)	x		x
Pseudomonas	IDEXX Pseudalert (2461)	x		x
Radium-226	GA Institute of Tech	x		x
Radium-228	GA Institute of Tech	x		x
Radon-222	SM 7500RN	x		x
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D		x	
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4		x	
Semi-VOC	EPA 525.2	x		x
Silica	SM 4500-Si D	x	x	
Silica	SM 4500-SiO2 C	x	x	
Sulfide	SM 4500-S ²⁻ D		x	
Sulfite	SM 4500-SO ³⁻ B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x		x
Total Coliform (P/A)	SM 9221 A, B	x		x
Total Coliform (Enumeration)	SM 9221 A, B, C	x		x
Total Coliform / E. coli	Colisure SM 9223	x		x
Total Coliform	SM 9221B		x	
Total Coliform with Chlorine Present	SM 9221B		x	
Total Coliform / E.coli (P/A and Enumeration)	SM 9223	x		x
TOC	SM 5310C	x	x	x
TOX	SM 5320B		x	
Total Phenols	EPA 420.1		x	
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P E		x	
Triazine Pesticides	In House (3617)	x		x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x	x	
Uranium by ICP/MS	EPA 200.8	x		x
UV 254	SM 5910B	x		
VOC	EPA 524.2	x		x
VOC	In House Method (2411)	x		x
Yeast and Mold	SM 9610	x		x

Acknowledgement of Samples Received

Addr: **Colorado Analytical Laboratories Inc**
240 S Main Street
Brighton, CO 80601

Client ID: CAL-CO

Folder #: 762124

Project: NON-COMPLIANCE (180912021)

Sample Group: Color

Attn: Stuart Nielson
Phone: 303-659-2313

Project Manager: Shea Greiner
Phone: (720) 491-1749

The following samples were received from you on **September 13, 2018 at 1819**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

Sample #	Sample ID	Sample Date
201809140324	180921021-01F MW-3	09/12/2018 0920
	Apparent Color	

Test Description

20129t

**Colorado Analytical
Laboratories, Inc.**

Brighton Lab

240 South Main Street

Brighton, CO 80601

Lakewood Lab

12860 W. Cedar Dr, Suite 100A

Lakewood CO 80228

Phone: 303-659-2313

Fax: 303-659-2315

www.coloradolab.com

Report To Information		Bill To Information (If different from report to)		Project Name
Company Name: <u>Colorado Analytical</u>		Company Name: <u>Same</u>		<u>180912021</u>
Contact Name: <u>Stuart Nielson</u>		Contact Name: _____		<u>Mill Iron 2354-01</u>
Address: <u>240 S. Main St</u> _____		Address: _____ _____		Task Number (Lab Use Only)
City <u>Brighton</u>	State <u>CO</u>	Zip <u>80601</u>		
Phone: 303-659-2313		Fax: 303-659-2315		
Email: <u>stuartnielson@coloradolab.com</u>		Phone: _____		Disposal Date (Lab Use Only)
Sample Collector: <u>Thad Miller</u>		Email: _____		
		PO No.: _____		

[illegible]



Eaton Analytical

INTERNAL CHAIN OF CUSTODY RECORD

EEA Folder Number: 762124

Eaton Analytical

SAMPLE TEMP RECEIVED:

Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not.

SAMPLES REC'D DAY OF COLLECTION? Yes / No

IR Gun ID = 6304 (Observation = 1.3 °C) (Corr. Factor = -0.2 °C) (Final = 1.1 °C)

CONDITION OF ICE: Frozen ☒ Partially Frozen _____ Thawed _____ N/A _____

TYPE OF ICE: Real ☒ Synthetic _____ No Ice _____

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

Compliance Acceptance Criteria:

- 1) Chemistry: >0, ≤ 6°C, not frozen (NELAP) (If received after 24 hrs of sample collection)
- 2) Microbiology, Distribution: < 10°C, not frozen (can be ≥ 10°C if received on ice the same day as sample collection, within 8 hours)
- 3) Microbiology, Surface Water: < 10°C (If received after 2 hours of sample collection)

If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrant

1 = (Observation = _____) (Corr. Factor = _____) (Final = _____) (Final = _____)	2 = (Observation = _____) (Corr. Factor = _____) (Final = _____) (Final = _____)
3 = (Observation = _____) (Corr. Factor = _____) (Final = _____) (Final = _____)	4 = (Observation = _____) (Corr. Factor = _____) (Final = _____) (Final = _____)

4 Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (If received after 24 hrs of sample collection)

5) pH Check. Manufacturer: _____ Lot Number: _____ pH strip type: 0 - 14 or _____ Expiration Date: _____ Results: _____

6) Chlorine check. Manufacturer: Sansafe. Lot No.: _____ Expiration Date: _____ Results: _____

7) VOA Headspace: _____ No Samples with Headspace: _____ Samples with Headspace (see below): _____

Headspace Documentation (use additional VOC Internal COFC for additional bottles)

Exempt from headspace concerns: Methods 816.4, HAA(8251,852), 805, SPME, @CH, 532LCMS, 556, 536, Anatoxin, LCMS methods using 40 ml vials, International clients: _____

Sample ID	Bottle #	mm	None/<6	>6mm

Sample ID	Bottle #	mm	None/<6	>6mm

Sample ID	Bottle #	mm	None/<6	>6mm

Sample ID	Bottle #	mm	None/<6	>6mm

Note Sample IDs which have dissimilar headspace (i.e. potential sampling errors): _____

RECEIVED BY: <u>[Signature]</u>	PRINT NAME: <u>Vivier Pascariu</u>	COMPANY/TITLE: <u>Eurofins Eaton Analytical</u>	DATE: <u>9/13/18</u>	TIME: <u>1819</u>
---------------------------------	------------------------------------	---	----------------------	-------------------

Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Comments**Report:** 762124**Project:** NON-COMPLIANCE (180912021)**Group:** Color

Colorado Analytical Laboratories Inc
Stuart Nielson
240 S Main Street
Brighton, CO 80601

Flags Legend:

D4 - Minimum reporting level (MRL) adjusted to reflect sample amount received and analyzed.

Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Hits

Report: 762124
Project: NON-COMPLIANCE (180912021)
Group: Color

Colorado Analytical Laboratories Inc
Stuart Nielson
240 S Main Street
Brighton, CO 80601

Samples Received on:
09/13/2018 1819

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
----------	---------	-----------	--------	-------------	-------	-----

Tel: (626) 386-1100
 Fax: (866) 988-3757
 1 800 566 LABS (1 800 566 5227)

Laboratory Data

Report: 762124
Project: NON-COMPLIANCE (180912021)
Group: Color

Colorado Analytical Laboratories Inc
 Stuart Nielson
 240 S Main Street
 Brighton, CO 80601

Samples Received on:
 09/13/2018 1819

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
180921021-01F MW-3 (201809140324)						Sampled on 09/12/2018 0920			
SM 2120B - Apparent Color									
09/13/18 19:01		1118367		(SM 2120B)	Apparent Color	ND (D4)	ACU	60	20

Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory QC Summary

Report: 762124
Project: NON-COMPLIANCE (180912021)
Group: Color

Colorado Analytical Laboratories Inc

Apparent Color

Analytical Batch: 1118367

201809140324

180921021-01F MW-3

Analysis Date: 09/13/2018

Analyzed by: H5VG

Tel: (626) 386-1100
 Fax: (866) 988-3757
 1 800 566 LABS (1 800 566 5227)

Report: 762124
Project: NON-COMPLIANCE (180912021)
Group: Color

Colorado Analytical Laboratories Inc

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
Apparent Color by SM 2120B									
Analytical Batch: 1118367					Analysis Date: 09/13/2018				
DUP1_201809130293	Apparent Color	ND		ND	ACU		(0-20)		
DUP2_201809130113	Apparent Color	ND		ND	ACU		(0-20)		
MBLK	Apparent Color			<0.5	ACU				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

Analytical Results

TASK NO: 180912021

Report To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Bill To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Task No.: 180912021
Client PO: 2354-01
Client Project: Mill Iron 2354-01

Date Received: 9/12/18
Date Reported: 10/4/18
Matrix: Water - Ground

Customer Sample ID MW-3

Sample Date/Time: 9/12/18 9:20 AM

Lab Number: 180912021-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
Chloride	52.64 mg/L	EPA 300.0	0.01 mg/L	9/12/18	SEA
Cyanide-Free	< 0.005 mg/L	EPA 335.4	0.005 mg/L	9/13/18	LJG
Fluoride	0.73 mg/L	EPA 300.0	0.09 mg/L	9/12/18	SEA
Nitrate Nitrogen	24.07 mg/L	EPA 300.0	0.05 mg/L	9/12/18	SEA
Nitrate/ Nitrite Nitrogen	24.07 mg/L	Calculation	0.05 mg/L	9/12/18	SEA
Nitrite Nitrogen	< 0.03 mg/L	EPA 300.0	0.03 mg/L	9/12/18	SEA
Phenols - Total	0.07 mg/L	EPA 420.1	0.05 mg/L	9/13/18	LJG
Sulfate	639.87 mg/L	EPA 300.0	0.01 mg/L	9/12/18	SEA
Total Coliform	2 mpn/100ml	SM 9221-B	1 mpn/100ml	9/13/18	SEA
<u>Dissolved</u>					
Aluminum	0.004 mg/L	EPA 200.8	0.001 mg/L	9/13/18	DBM
Antimony	< 0.0012 mg/L	EPA 200.8	0.0012 mg/L	9/13/18	DBM
Arsenic	< 0.0006 mg/L	EPA 200.8	0.0006 mg/L	9/13/18	DBM
Barium	0.0270 mg/L	EPA 200.8	0.0007 mg/L	9/13/18	DBM
Beryllium	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	9/13/18	DBM
Boron	0.28 mg/L	EPA 200.7	0.01 mg/L	9/14/18	MBN
Cadmium	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	9/13/18	DBM
Chromium	< 0.0015 mg/L	EPA 200.8	0.0015 mg/L	9/13/18	DBM
Chromium - Hexavalent	< 0.01 mg/L	SM 3500-Cr B	0.01 mg/L	9/12/18	SEA
Chromium - Trivalent	< 0.01 mg/L	Calculation	0.01 mg/L	9/12/18	DBM
Cobalt	< 0.0002 mg/L	EPA 200.8	0.0002 mg/L	9/13/18	DBM

Abbreviations/ References:

ML = Minimum Level = LRL = RL
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

240 South Main Street / Brighton, CO 80601-0507 / 303-659-2313
Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 / Fax: 303-659-2315

Analytical Results

TASK NO: 180912021

Report To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Bill To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Task No.: 180912021
Client PO: 2354-01
Client Project: Mill Iron 2354-01

Date Received: 9/12/18
Date Reported: 10/4/18
Matrix: Water - Ground

Customer Sample ID MW-3

Sample Date/Time: 9/12/18 9:20 AM

Lab Number: 180912021-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
<u>Dissolved</u>					
Copper	< 0.0008 mg/L	EPA 200.8	0.0008 mg/L	9/13/18	DBM
Iron	< 0.005 mg/L	EPA 200.7	0.005 mg/L	9/14/18	MBN
Lead	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	9/13/18	DBM
Manganese	0.0010 mg/L	EPA 200.8	0.0008 mg/L	9/13/18	DBM
Molybdenum	0.0022 mg/L	EPA 200.8	0.0005 mg/L	9/13/18	DBM
Nickel	< 0.0009 mg/L	EPA 200.8	0.0009 mg/L	9/13/18	DBM
Selenium	0.0082 mg/L	EPA 200.8	0.0008 mg/L	9/13/18	DBM
Silver	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	9/13/18	DBM
Thallium	< 0.0002 mg/L	EPA 200.8	0.0002 mg/L	9/13/18	DBM
Uranium	0.0673 mg/L	EPA 200.8	0.0002 mg/L	9/13/18	DBM
Vanadium	0.001 mg/L	EPA 200.8	0.001 mg/L	9/13/18	DBM
Zinc	< 0.001 mg/L	EPA 200.8	0.001 mg/L	9/13/18	DBM

Abbreviations/ References:

ML = Minimum Level = LRL = RL

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

240 South Main Street / Brighton, CO 80601-0507 / 303-659-2313
Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 / Fax: 303-659-2315

Analytical Results

TASK NO: 180912021

Report To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Bill To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Task No.: 180912021
Client PO: 2354-01
Client Project: Mill Iron 2354-01

Date Received: 9/12/18
Date Reported: 10/4/18
Matrix: Water - Ground

Customer Sample ID MW-1

Sample Date/Time: 9/11/18 2:27 PM

Lab Number: 180912021-02

Test	Result	Method	ML	Date Analyzed	Analyzed By
Total Coliform	293 mpn/100ml	SM 9221-B	1 mpn/100ml	9/13/18	SEA

Abbreviations/ References:

ML = Minimum Level = LRL = RL

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

240 South Main Street / Brighton, CO 80601-0507 / 303-659-2313
Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 / Fax: 303-659-2315

Brighton Lab
240 South Main Street
Brighton, CO 80601
Lakewood Lab
12860 W. Cedar Dr, Suite 100A
Lakewood CO 80228

Phone: 303-659-2313
Fax: 303-659-2315
www.coloradolab.com

Page 4 of 4

Analytical Results

TASK NO: 180912021

Report To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Bill To: Thad Miller

Company: Ag Professionals, LLC
3050 67th Avenue, Suite 200
Greeley CO 80634

Task No.: 180912021
Client PO: 2354-01
Client Project: Mill Iron 2354-01

Date Received: 9/12/18
Date Reported: 10/4/18
Matrix: Water - Ground

Customer Sample ID MW-3

Sample Date/Time: 9/12/18 9:20 AM

Lab Number: 180912021-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
Bicarbonate	288.2 mg/L as CaCO ₃	SM 2320-B	0.1	9/14/18	MBN
Calcium as CaCO ₃	610.5 mg/L	EPA 200.7	0.1	9/14/18	MBN
Carbonate	< 0.1 mg/L as CaCO ₃	SM 2320-B	0.1	9/14/18	MBN
Hydroxide	< 0.1 mg/L as CaCO ₃	SM 2320-B	0.1	9/14/18	MBN
Langelier Index	0.47 units	SM 2330-B		9/17/18	SAN
pH	7.13 units	SM 4500-H-B	0.01	9/12/18	MBN
Temperature	20 °C	SM 4500-H-B	1	9/12/18	MBN
Total Alkalinity	288.2 mg/L as CaCO ₃	SM 2320-B	0.1	9/14/18	MBN
Total Dissolved Solids	1468 mg/L	SM 2540-C	5	9/17/18	ISG

Abbreviations/ References:

ML = Minimum Level = LRL = RL
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed



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Colorado
Analytical

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ANALYTICAL SUMMARY REPORT

September 25, 2018

Colorado Analytical Laboratories Inc
PO Drawer 507
Brighton, CO 80601

Work Order: C18090457 Quote ID: C5210 - 624, 625, 1,4-Dioxane

Project Name: 180912021 Mill Iron 2354-01

Energy Laboratories, Inc. Casper WY received the following 1 sample for Colorado Analytical Laboratories Inc on 9/13/2018 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C18090457-001	180912021-01 MW-3	09/12/18 9:20	09/13/18	Groundwater	Foaming Agents Separatory Funnel Liquid-Liquid Ext. Semi-Volatile Organic Compounds

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call.

Report Approved By:



CLIENT: Colorado Analytical Laboratories Inc
Project: 180912021 Mill Iron 2354-01
Work Order: C18090457

Report Date: 09/25/18

CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc
Project: 180912021 Mill Iron 2354-01
Lab ID: C18090457-001
Client Sample ID: 180912021-01 MW-3

Report Date: 09/25/18
Collection Date: 09/12/18 09:20
DateReceived: 09/13/18
Matrix: Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Surfactants, MBAS	1	mg/L	H	1		LaMotte DS-1	09/17/18 15:16 / eli-b
SEMI-VOLATILE ORGANIC COMPOUNDS							
Acenaphthene	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
Acenaphthylene	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
Anthracene	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
Azobenzene	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
Benzidine	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
Benzo(a)anthracene	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
Benzo(a)pyrene	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
Benzo(b)fluoranthene	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
Benzo(g,h,i)perylene	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
Benzo(k)fluoranthene	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
4-Bromophenyl phenyl ether	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
Butylbenzylphthalate	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
4-Chloro-3-methylphenol	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
bis(-2-chloroethoxy)Methane	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
bis(-2-chloroethyl)Ether	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
bis(2-chloroisopropyl)Ether	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
2-Chloronaphthalene	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
2-Chlorophenol	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
4-Chlorophenyl phenyl ether	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
Chrysene	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
Diethyl phthalate	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
Di-n-butyl phthalate	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
1,2-Dichlorobenzene	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
1,3-Dichlorobenzene	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
1,4-Dichlorobenzene	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
3,3'-Dichlorobenzidine	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
2,4-Dichlorophenol	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
Dimethyl phthalate	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
Di-n-octyl phthalate	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
Dibenzo(a,h)anthracene	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
2,4-Dimethylphenol	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
4,6-Dinitro-2-methylphenol	ND	ug/L		50	E625.1		09/18/18 11:55 / eli-b
2,4-Dinitrophenol	ND	ug/L		50	E625.1		09/18/18 11:55 / eli-b
2,4-Dinitrotoluene	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
2,6-Dinitrotoluene	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
bis(2-ethylhexyl)Phthalate	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
Fluoranthene	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
Fluorene	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
Hexachlorobenzene	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b
Hexachlorobutadiene	ND	ug/L		10	E625.1		09/18/18 11:55 / eli-b

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
H - Analysis performed past recommended holding time.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Colorado Analytical Laboratories Inc
Project: 180912021 Mill Iron 2354-01
Lab ID: C18090457-001
Client Sample ID: 180912021-01 MW-3

Report Date: 09/25/18
Collection Date: 09/12/18 09:20
DateReceived: 09/13/18
Matrix: Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
SEMI-VOLATILE ORGANIC COMPOUNDS							
Hexachlorocyclopentadiene	ND	ug/L		10		E625.1	09/18/18 11:55 / eli-b
Hexachloroethane	ND	ug/L		10		E625.1	09/18/18 11:55 / eli-b
Indeno(1,2,3-cd)pyrene	ND	ug/L		10		E625.1	09/18/18 11:55 / eli-b
Isophorone	ND	ug/L		10		E625.1	09/18/18 11:55 / eli-b
n-Nitrosodimethylamine	ND	ug/L		10		E625.1	09/18/18 11:55 / eli-b
n-Nitroso-di-n-propylamine	ND	ug/L		10		E625.1	09/18/18 11:55 / eli-b
n-Nitrosodiphenylamine	ND	ug/L		10		E625.1	09/18/18 11:55 / eli-b
2-Nitrophenol	ND	ug/L		10		E625.1	09/18/18 11:55 / eli-b
4-Nitrophenol	ND	ug/L		50		E625.1	09/18/18 11:55 / eli-b
Naphthalene	ND	ug/L		10		E625.1	09/18/18 11:55 / eli-b
Nitrobenzene	ND	ug/L		10		E625.1	09/18/18 11:55 / eli-b
Pentachlorophenol	ND	ug/L		50		E625.1	09/18/18 11:55 / eli-b
Phenanthrene	ND	ug/L		10		E625.1	09/18/18 11:55 / eli-b
Phenol	ND	ug/L		10		E625.1	09/18/18 11:55 / eli-b
Pyrene	ND	ug/L		10		E625.1	09/18/18 11:55 / eli-b
1,2,4-Trichlorobenzene	ND	ug/L		10		E625.1	09/18/18 11:55 / eli-b
2,4,6-Trichlorophenol	ND	ug/L		10		E625.1	09/18/18 11:55 / eli-b
Surr: 2-Fluorobiphenyl	47.0	%REC		14-128		E625.1	09/18/18 11:55 / eli-b
Surr: 2-Fluorophenol	30.0	%REC		21-86		E625.1	09/18/18 11:55 / eli-b
Surr: Nitrobenzene-d5	45.0	%REC		27-126		E625.1	09/18/18 11:55 / eli-b
Surr: Phenol-d5	24.0	%REC		16-68		E625.1	09/18/18 11:55 / eli-b
Surr: Terphenyl-d14	59.0	%REC		24-148		E625.1	09/18/18 11:55 / eli-b
Surr: 2,4,6-Tribromophenol	43.0	%REC		43-122		E625.1	09/18/18 11:55 / eli-b

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 09/21/18

Project: 180912021 Mill Iron 2354-01

Work Order: C18090457

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	LaMotte DS-1								Batch: R307476	
Lab ID:	MB-R307476	Method Blank				Run: MISC-WC_180917C				09/17/18 15:16
Surfactants, MBAS		ND	mg/L	1						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 09/24/18

Project: 180912021 Mill Iron 2354-01

Work Order: C18090457

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625.1							Batch: 125494		
Lab ID: MB-125494	Method Blank			Run: SV5973N2.I_180918A			09/18/18 09:22		
Acenaphthene	ND	ug/L	10						
Acenaphthylene	ND	ug/L	10						
Anthracene	ND	ug/L	10						
Azobenzene	ND	ug/L	10						
Benzidine	ND	ug/L	10						
Benzo(a)anthracene	ND	ug/L	10						
Benzo(a)pyrene	ND	ug/L	10						
Benzo(b)fluoranthene	ND	ug/L	10						
Benzo(g,h,i)perylene	ND	ug/L	10						
Benzo(k)fluoranthene	ND	ug/L	10						
4-Bromophenyl phenyl ether	ND	ug/L	10						
Butylbenzylphthalate	ND	ug/L	10						
4-Chloro-3-methylphenol	ND	ug/L	10						
bis(-2-chloroethoxy)Methane	ND	ug/L	10						
bis(-2-chloroethyl)Ether	ND	ug/L	10						
bis(2-chloroisopropyl)Ether	ND	ug/L	10						
2-Chloronaphthalene	ND	ug/L	10						
2-Chlorophenol	ND	ug/L	10						
4-Chlorophenyl phenyl ether	ND	ug/L	10						
Chrysene	ND	ug/L	10						
Diethyl phthalate	ND	ug/L	10						
Di-n-butyl phthalate	ND	ug/L	10						
1,2-Dichlorobenzene	ND	ug/L	10						
1,3-Dichlorobenzene	ND	ug/L	10						
1,4-Dichlorobenzene	ND	ug/L	10						
3,3'-Dichlorobenzidine	ND	ug/L	10						
2,4-Dichlorophenol	ND	ug/L	10						
Dimethyl phthalate	ND	ug/L	10						
Di-n-octyl phthalate	ND	ug/L	10						
Dibenzo(a,h)anthracene	ND	ug/L	10						
2,4-Dimethylphenol	ND	ug/L	10						
4,6-Dinitro-2-methylphenol	ND	ug/L	50						
2,4-Dinitrophenol	ND	ug/L	50						
2,4-Dinitrotoluene	ND	ug/L	10						
2,6-Dinitrotoluene	ND	ug/L	10						
bis(2-ethylhexyl)Phthalate	ND	ug/L	10						
Fluoranthene	ND	ug/L	10						
Fluorene	ND	ug/L	10						
Hexachlorobenzene	ND	ug/L	10						
Hexachlorobutadiene	ND	ug/L	10						
Hexachlorocyclopentadiene	ND	ug/L	10						
Hexachloroethane	ND	ug/L	10						
Indeno(1,2,3-cd)pyrene	ND	ug/L	10						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 09/24/18

Project: 180912021 Mill Iron 2354-01

Work Order: C18090457

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625.1							Batch: 125494		
Lab ID: MB-125494	Method Blank		Run: SV5973N2.I_180918A				09/18/18 09:22		
Isophorone	ND	ug/L	10						
n-Nitrosodimethylamine	ND	ug/L	10						
n-Nitroso-di-n-propylamine	ND	ug/L	10						
n-Nitrosodiphenylamine	ND	ug/L	10						
2-Nitrophenol	ND	ug/L	10						
4-Nitrophenol	ND	ug/L	50						
Naphthalene	ND	ug/L	10						
Nitrobenzene	ND	ug/L	10						
Pentachlorophenol	ND	ug/L	50						
Phenanthrene	ND	ug/L	10						
Phenol	ND	ug/L	10						
Pyrene	ND	ug/L	10						
1,2,4-Trichlorobenzene	ND	ug/L	10						
2,4,6-Trichlorophenol	ND	ug/L	10						
Surr: 2-Fluorobiphenyl			10	55	14	128			
Surr: 2-Fluorophenol			10	39	21	86			
Surr: Nitrobenzene-d5			10	57	27	126			
Surr: Phenol-d5			10	35	16	68			
Surr: Terphenyl-d14			10	76	24	148			
Surr: 2,4,6-Tribromophenol			10	54	43	122			
Lab ID: LCS-125494	Laboratory Control Sample		Run: SV5973N2.I_180918A				09/18/18 09:52		
Acenaphthene	81.8	ug/L	10	82	58	99			
Acenaphthylene	79.4	ug/L	10	79	57	96			
Anthracene	83.3	ug/L	10	83	60	107			
Azobenzene	76.6	ug/L	10	77	56	100			
Benzidine	89.2	ug/L	10	89	10	100			
Benzo(a)anthracene	84.6	ug/L	10	85	62	114			
Benzo(a)pyrene	80.7	ug/L	10	81	62	108			
Benzo(b)fluoranthene	84.3	ug/L	10	84	48	127			
Benzo(g,h,i)perylene	88.2	ug/L	10	88	62	121			
Benzo(k)fluoranthene	84.4	ug/L	10	84	55	111			
4-Bromophenyl phenyl ether	83.2	ug/L	10	83	58	105			
Butylbenzylphthalate	81.5	ug/L	10	81	60	113			
4-Chloro-3-methylphenol	86.4	ug/L	10	86	53	92			
bis(-2-chloroethoxy)Methane	85.7	ug/L	10	86	50	92			
bis(-2-chloroethyl)Ether	70.7	ug/L	10	71	44	82			
bis(2-chloroisopropyl)Ether	65.8	ug/L	10	66	39	139			
2-Chloronaphthalene	78.0	ug/L	10	78	56	95			
2-Chlorophenol	75.2	ug/L	10	75	47	76			
4-Chlorophenyl phenyl ether	83.1	ug/L	10	83	58	99			
Chrysene	83.0	ug/L	10	83	63	106			
Diethyl phthalate	82.1	ug/L	10	82	58	103			
Di-n-butyl phthalate	83.3	ug/L	10	83	61	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 09/24/18

Project: 180912021 Mill Iron 2354-01

Work Order: C18090457

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625.1							Batch: 125494		
Lab ID: LCS-125494	Laboratory Control Sample				Run: SV5973N2.I_180918A		09/18/18 09:52		
1,2-Dichlorobenzene	72.1	ug/L	10	72	43	81			
1,3-Dichlorobenzene	63.4	ug/L	10	63	41	79			
1,4-Dichlorobenzene	69.9	ug/L	10	70	42	79			
3,3'-Dichlorobenzidine	63.0	ug/L	10	63	24	119			
2,4-Dichlorophenol	78.5	ug/L	10	79	49	90			
Dimethyl phthalate	83.8	ug/L	10	84	58	104			
Di-n-octyl phthalate	71.4	ug/L	10	71	56	110			
Dibenzo(a,h)anthracene	77.3	ug/L	10	77	61	111			
2,4-Dimethylphenol	81.3	ug/L	10	81	45	89			
4,6-Dinitro-2-methylphenol	84.4	ug/L	50	84	37	105			
2,4-Dinitrophenol	78.6	ug/L	50	79	27	81			
2,4-Dinitrotoluene	83.6	ug/L	10	84	63	110			
2,6-Dinitrotoluene	80.6	ug/L	10	81	60	107			
bis(2-ethylhexyl)Phthalate	75.1	ug/L	10	75	56	108			
Fluoranthene	84.6	ug/L	10	85	63	110			
Fluorene	84.1	ug/L	10	84	60	99			
Hexachlorobenzene	84.6	ug/L	10	85	57	103			
Hexachlorobutadiene	70.0	ug/L	10	70	39	83			
Hexachlorocyclopentadiene	66.7	ug/L	10	67	39	91			
Hexachloroethane	70.4	ug/L	10	70	37	75			
Indeno(1,2,3-cd)pyrene	75.4	ug/L	10	75	59	109			
Isophorone	73.3	ug/L	10	73	42	102			
n-Nitrosodimethylamine	38.8	ug/L	10	39	20	45			
n-Nitroso-di-n-propylamine	75.9	ug/L	10	76	49	98			
n-Nitrosodiphenylamine	79.9	ug/L	10	80	61	108			
2-Nitrophenol	80.0	ug/L	10	80	51	96			
4-Nitrophenol	32.4	ug/L	50	32	15	36			
Naphthalene	73.5	ug/L	10	74	48	96			
Nitrobenzene	76.1	ug/L	10	76	51	91			
Pentachlorophenol	86.5	ug/L	50	87	53	109			
Phenanthrene	83.5	ug/L	10	83	58	104			
Phenol	40.0	ug/L	10	40	27	45			
Pyrene	84.6	ug/L	10	85	64	108			
1,2,4-Trichlorobenzene	72.9	ug/L	10	73	36	78			
2,4,6-Trichlorophenol	86.3	ug/L	10	86	47	99			
Surr: 2-Fluorobiphenyl			10	65	14	128			
Surr: 2-Fluorophenol			10	46	21	86			
Surr: Nitrobenzene-d5			10	69	27	126			
Surr: Phenol-d5			10	42	16	68			
Surr: Terphenyl-d14			10	81	24	148			
Surr: 2,4,6-Tribromophenol			10	71	43	122			
Lab ID: B18091351-002EMS	Sample Matrix Spike				Run: SV5973N2.I_180918A		09/18/18 15:31		
Acenaphthene	63.8	ug/L	10	64	58	99			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 09/24/18

Project: 180912021 Mill Iron 2354-01

Work Order: C18090457

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625.1									Batch: 125494
Lab ID: B18091351-002EMS	Sample Matrix Spike		Run: SV5973N2.I_180918A				09/18/18 15:31		
Acenaphthylene	59.6	ug/L	10	60	57	96			
Anthracene	68.7	ug/L	10	69	60	107			
Azobenzene	63.3	ug/L	10	63	56	100			
Benidine	ND	ug/L	10	0	10	100			1S
Benzo(a)anthracene	65.6	ug/L	10	66	62	114			
Benzo(a)pyrene	62.0	ug/L	10	62	62	108			
Benzo(b)fluoranthene	61.9	ug/L	10	62	48	127			
Benzo(g,h,i)perylene	66.3	ug/L	10	66	62	121			
Benzo(k)fluoranthene	58.7	ug/L	10	59	55	111			
4-Bromophenyl phenyl ether	67.2	ug/L	10	67	58	105			
Butylbenzylphthalate	67.7	ug/L	10	68	60	113			
4-Chloro-3-methylphenol	ND	ug/L	10	0	53	92			1S
bis(-2-chloroethoxy)Methane	72.3	ug/L	10	72	50	92			
bis(-2-chloroethyl)Ether	55.0	ug/L	10	55	44	82			
bis(2-chloroisopropyl)Ether	58.1	ug/L	10	58	39	139			
2-Chloronaphthalene	59.8	ug/L	10	60	56	95			
2-Chlorophenol	69.7	ug/L	10	70	47	76			
4-Chlorophenyl phenyl ether	53.9	ug/L	10	54	58	99			S
Chrysene	62.9	ug/L	10	63	63	106			
Diethyl phthalate	65.4	ug/L	10	65	58	103			
Di-n-butyl phthalate	60.9	ug/L	10	61	61	110			
1,2-Dichlorobenzene	61.0	ug/L	10	61	43	81			
1,3-Dichlorobenzene	55.6	ug/L	10	56	41	79			
1,4-Dichlorobenzene	56.8	ug/L	10	57	42	79			
3,3'-Dichlorobenzidine	ND	ug/L	10	0	24	119			1S
2,4-Dichlorophenol	111	ug/L	10	111	49	90			S
Dimethyl phthalate	67.2	ug/L	10	67	58	104			
Di-n-octyl phthalate	65.6	ug/L	10	66	56	110			
Dibenzo(a,h)anthracene	67.0	ug/L	10	67	61	111			
2,4-Dimethylphenol	52.1	ug/L	10	52	45	89			
4,6-Dinitro-2-methylphenol	92.2	ug/L	50	92	37	105			
2,4-Dinitrophenol	75.4	ug/L	50	75	27	81			
2,4-Dinitrotoluene	73.3	ug/L	10	73	63	110			
2,6-Dinitrotoluene	63.0	ug/L	10	63	60	107			
bis(2-ethylhexyl)Phthalate	65.1	ug/L	10	65	56	108			
Fluoranthene	67.6	ug/L	10	68	63	110			
Fluorene	60.9	ug/L	10	61	60	99			
Hexachlorobenzene	66.1	ug/L	10	66	57	103			
Hexachlorobutadiene	50.6	ug/L	10	51	39	83			
Hexachlorocyclopentadiene	50.6	ug/L	10	51	39	91			
Hexachloroethane	55.4	ug/L	10	55	37	75			
Indeno(1,2,3-cd)pyrene	66.5	ug/L	10	66	59	109			
Isophorone	65.5	ug/L	10	65	42	102			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 09/24/18

Project: 180912021 Mill Iron 2354-01

Work Order: C18090457

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625.1									Batch: 125494
Lab ID: B18091351-002EMS	Sample Matrix Spike		Run: SV5973N2.I_180918A				09/18/18 15:31		
n-Nitrosodimethylamine	34.0	ug/L	10	34	20	45			
n-Nitroso-di-n-propylamine	72.4	ug/L	10	72	49	98			
n-Nitrosodiphenylamine	70.4	ug/L	10	70	61	108			
2-Nitrophenol	75.1	ug/L	10	75	51	96			
4-Nitrophenol	16.0	ug/L	50	16	15	36			
Naphthalene	67.5	ug/L	10	67	48	96			
Nitrobenzene	86.2	ug/L	10	86	51	91			
Pentachlorophenol	103	ug/L	50	103	53	109			
Phenanthrene	62.4	ug/L	10	62	58	104			
Phenol	31.3	ug/L	10	31	27	45			
Pyrene	67.6	ug/L	10	68	64	108			
1,2,4-Trichlorobenzene	62.3	ug/L	10	62	36	78			
2,4,6-Trichlorophenol	88.8	ug/L	10	89	47	99			
Surr: 2-Fluorobiphenyl			10	49	14	128			
Surr: 2-Fluorophenol			10	49	21	86			
Surr: Nitrobenzene-d5			10	73	27	126			
Surr: Phenol-d5			10	45	16	68			
Surr: Terphenyl-d14			10	66	24	148			
Surr: 2,4,6-Tribromophenol			10	67	43	122			
- 1 = This is a known very reactive compound. The recovery of this compound was normal in the Laboratory Control Sample (LCS). The compound appears to have reacted with the sample matrix.									
Lab ID: B18091351-002EMSD	Sample Matrix Spike Duplicate		Run: SV5973N2.I_180918A				09/18/18 16:01		
Acenaphthene	60.4	ug/L	10	62	58	99	5.5	40	
Acenaphthylene	59.7	ug/L	10	61	57	96	0.2	40	
Anthracene	59.7	ug/L	10	61	60	107	14	40	
Azobenzene	56.9	ug/L	10	58	56	100	11	40	
Benzidine	ND	ug/L	10	0	10	100		40	1S
Benzo(a)anthracene	60.8	ug/L	10	62	62	114	7.6	40	
Benzo(a)pyrene	52.5	ug/L	10	54	62	108	17	40	S
Benzo(b)fluoranthene	52.8	ug/L	10	54	48	127	16	40	
Benzo(g,h,i)perylene	54.6	ug/L	10	56	62	121	19	40	S
Benzo(k)fluoranthene	49.3	ug/L	10	50	55	111	17	40	S
4-Bromophenyl phenyl ether	57.7	ug/L	10	59	58	105	15	40	
Butylbenzylphthalate	59.1	ug/L	10	60	60	113	14	40	
4-Chloro-3-methylphenol	ND	ug/L	10	0	53	92		40	1S
bis(-2-chloroethoxy)Methane	73.2	ug/L	10	75	50	92	1.3	40	
bis(-2-chloroethyl)Ether	54.5	ug/L	10	56	44	82	1.0	40	
bis(2-chloroisopropyl)Ether	59.1	ug/L	10	60	39	139	1.6	40	
2-Chloronaphthalene	56.0	ug/L	10	57	56	95	6.6	40	
2-Chlorophenol	67.3	ug/L	10	69	47	76	3.5	40	
4-Chlorophenyl phenyl ether	51.0	ug/L	10	52	58	99	5.4	40	S
Chrysene	51.2	ug/L	10	52	63	106	20	40	S
Diethyl phthalate	65.1	ug/L	10	66	58	103	0.4	40	
Di-n-butyl phthalate	52.7	ug/L	10	54	61	110	15	40	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 09/24/18

Project: 180912021 Mill Iron 2354-01

Work Order: C18090457

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625.1									Batch: 125494
Lab ID: B18091351-002EMSD	Sample Matrix Spike Duplicate		Run: SV5973N2.I_180918A				09/18/18 16:01		
1,2-Dichlorobenzene	61.0	ug/L	10	62	43	81	0.1	40	
1,3-Dichlorobenzene	54.1	ug/L	10	55	41	79	2.9	40	
1,4-Dichlorobenzene	57.2	ug/L	10	58	42	79	0.6	40	
3,3'-Dichlorobenzidine	ND	ug/L	10	0	24	119		40	1S
2,4-Dichlorophenol	105	ug/L	10	108	49	90	5.3	40	S
Dimethyl phthalate	67.9	ug/L	10	69	58	104	1.0	40	
Di-n-octyl phthalate	55.8	ug/L	10	57	56	110	16	40	
Dibenzo(a,h)anthracene	57.2	ug/L	10	58	61	111	16	40	S
2,4-Dimethylphenol	48.5	ug/L	10	49	45	89	7.2	40	
4,6-Dinitro-2-methylphenol	81.9	ug/L	50	84	37	105	12	40	
2,4-Dinitrophenol	74.7	ug/L	50	76	27	81	0.9	40	
2,4-Dinitrotoluene	74.9	ug/L	10	76	63	110	2.2	40	
2,6-Dinitrotoluene	72.2	ug/L	10	74	60	107	14	40	
bis(2-ethylhexyl)Phthalate	57.4	ug/L	10	59	56	108	13	40	
Fluoranthene	60.9	ug/L	10	62	63	110	10	40	S
Fluorene	55.7	ug/L	10	57	60	99	8.9	40	S
Hexachlorobenzene	56.9	ug/L	10	58	57	103	15	40	
Hexachlorobutadiene	44.4	ug/L	10	45	39	83	13	40	
Hexachlorocyclopentadiene	45.0	ug/L	10	46	39	91	12	40	
Hexachloroethane	54.4	ug/L	10	56	37	75	1.8	40	
Indeno(1,2,3-cd)pyrene	57.4	ug/L	10	59	59	109	15	40	
Isophorone	65.8	ug/L	10	67	42	102	0.5	40	
n-Nitrosodimethylamine	33.8	ug/L	10	34	20	45	0.6	40	
n-Nitroso-di-n-propylamine	71.4	ug/L	10	73	49	98	1.4	40	
n-Nitrosodiphenylamine	63.9	ug/L	10	65	61	108	9.6	40	
2-Nitrophenol	74.2	ug/L	10	76	51	96	1.3	40	
4-Nitrophenol	32.2	ug/L	50	33	15	36		40	
Naphthalene	63.9	ug/L	10	65	48	96	5.4	40	
Nitrobenzene	83.8	ug/L	10	86	51	91	2.8	40	
Pentachlorophenol	94.9	ug/L	50	97	53	109	8.4	40	
Phenanthrene	56.5	ug/L	10	58	58	104	9.9	40	
Phenol	33.7	ug/L	10	34	27	45	7.6	40	
Pyrene	60.9	ug/L	10	62	64	108	10	40	S
1,2,4-Trichlorobenzene	57.6	ug/L	10	59	36	78	7.7	40	
2,4,6-Trichlorophenol	87.5	ug/L	10	89	47	99	1.5	40	
Surr: 2-Fluorobiphenyl			10	51	14	128			
Surr: 2-Fluorophenol			10	47	21	86			
Surr: Nitrobenzene-d5			10	77	27	126			
Surr: Phenol-d5			10	43	16	68			
Surr: Terphenyl-d14			10	63	24	148			
Surr: 2,4,6-Tribromophenol			10	65	43	122			

- 1 = This is a known very reactive compound. The recovery of this compound was normal in the Laboratory Control Sample (LCS). The compound appears to have reacted with the sample matrix.

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 09/24/18

Project: 180912021 Mill Iron 2354-01

Work Order: C18090457

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625.1							Analytical Run: R307716		
Lab ID: 18-Sep-18_CCV_2	Continuing Calibration Verification Standard							09/18/18 07:50	
Acenaphthene	71.2	ug/L	10	95	80	120			
Acenaphthylene	74.2	ug/L	10	99	80	120			
Anthracene	73.2	ug/L	10	98	80	120			
Azobenzene	72.6	ug/L	10	97	80	120			
Benzidine	75.8	ug/L	10	101	80	120			
Benzo(a)anthracene	76.3	ug/L	10	102	80	120			
Benzo(a)pyrene	73.7	ug/L	10	98	80	120			
Benzo(b)fluoranthene	77.3	ug/L	10	103	80	120			
Benzo(g,h,i)perylene	77.4	ug/L	10	103	80	120			
Benzo(k)fluoranthene	79.6	ug/L	10	106	80	120			
4-Bromophenyl phenyl ether	77.3	ug/L	10	103	80	120			
Butylbenzylphthalate	73.1	ug/L	10	97	80	120			
4-Chloro-3-methylphenol	76.1	ug/L	10	101	80	120			
bis(-2-chloroethoxy)Methane	84.7	ug/L	10	113	80	120			
bis(-2-chloroethyl)Ether	74.0	ug/L	10	99	80	120			
bis(2-chloroisopropyl)Ether	75.0	ug/L	10	100	80	120			
2-Chloronaphthalene	74.2	ug/L	10	99	80	120			
2-Chlorophenol	75.7	ug/L	10	101	80	120			
4-Chlorophenyl phenyl ether	74.9	ug/L	10	100	80	120			
Chrysene	72.1	ug/L	10	96	80	120			
Diethyl phthalate	73.9	ug/L	10	99	80	120			
Di-n-butyl phthalate	75.5	ug/L	10	101	80	120			
1,2-Dichlorobenzene	74.5	ug/L	10	99	80	120			
1,3-Dichlorobenzene	74.5	ug/L	10	99	80	120			
1,4-Dichlorobenzene	74.6	ug/L	10	99	80	120			
3,3'-Dichlorobenzidine	74.8	ug/L	10	100	80	120			
2,4-Dichlorophenol	73.9	ug/L	10	99	80	120			
Dimethyl phthalate	75.2	ug/L	10	100	80	120			
Di-n-octyl phthalate	69.5	ug/L	10	93	80	120			
Dibenzo(a,h)anthracene	73.8	ug/L	10	98	80	120			
2,4-Dimethylphenol	78.0	ug/L	10	104	80	120			
4,6-Dinitro-2-methylphenol	69.2	ug/L	50	92	80	120			
2,4-Dinitrophenol	73.4	ug/L	50	98	80	120			
2,4-Dinitrotoluene	73.5	ug/L	10	98	80	120			
2,6-Dinitrotoluene	73.6	ug/L	10	98	80	120			
bis(2-ethylhexyl)Phthalate	71.7	ug/L	10	96	80	120			
Fluoranthene	78.2	ug/L	10	104	80	120			
Fluorene	73.3	ug/L	10	98	80	120			
Hexachlorobenzene	73.5	ug/L	10	98	80	120			
Hexachlorobutadiene	77.6	ug/L	10	104	80	120			
Hexachlorocyclopentadiene	69.4	ug/L	10	93	80	120			
Hexachloroethane	75.6	ug/L	10	101	80	120			
Indeno(1,2,3-cd)pyrene	70.1	ug/L	10	93	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 09/24/18

Project: 180912021 Mill Iron 2354-01

Work Order: C18090457

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625.1							Analytical Run: R307716		
Lab ID: 18-Sep-18_CCV_2	Continuing Calibration Verification Standard							09/18/18 07:50	
Isophorone	76.7	ug/L	10	102	80	120			
n-Nitrosodimethylamine	73.4	ug/L	10	98	80	120			
n-Nitroso-di-n-propylamine	74.2	ug/L	10	99	80	120			
n-Nitrosodiphenylamine	75.2	ug/L	10	100	80	120			
2-Nitrophenol	78.8	ug/L	10	105	80	120			
4-Nitrophenol	72.5	ug/L	50	97	80	120			
Naphthalene	74.5	ug/L	10	99	80	120			
Nitrobenzene	73.7	ug/L	10	98	80	120			
Pentachlorophenol	72.1	ug/L	50	96	80	120			
Phenanthrene	72.4	ug/L	10	96	80	120			
Phenol	73.5	ug/L	10	98	80	120			
Pyrene	78.2	ug/L	10	104	80	120			
1,2,4-Trichlorobenzene	76.0	ug/L	10	101	80	120			
2,4,6-Trichlorophenol	78.5	ug/L	10	105	80	120			
Surr: 2-Fluorobiphenyl			10	100	80	120			
Surr: 2-Fluorophenol			10	104	80	120			
Surr: Nitrobenzene-d5			10	98	80	120			
Surr: Phenol-d5			10	99	80	120			
Surr: Terphenyl-d14			10	94	80	120			
Surr: 2,4,6-Tribromophenol			10	100	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Work Order Receipt Checklist

Colorado Analytical Laboratories Inc

C18090457

Login completed by: Dorian Quis

Date Received: 9/13/2018

Reviewed by: Kasey Vidick

Received by: CCP

Reviewed Date: 9/14/2018

Carrier name: Ground

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☒	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☐	No ☒	Not Applicable ☐
Container/Temp Blank temperature:	12.4°C On Ice		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☒	No ☐	Not Applicable ☐

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Contact and Corrective Action Comments:

None

Brighton Lab

240 South Main Street
Brighton, CO 80601

**12860 W. Cedar Dr, Suite 100A
Lakewood CO 80228**

Phone: 303-659-2313
Fax: 303-659-2315

www.coloradolab.com

Report To Information		Bill To Information (If different from report to)		Project Name	
Company Name: <u>Colorado Analytical</u>		Company Name: <u>Same</u>		<u>180912021</u>	
Contact Name: <u>Stuart Nielson</u>		Contact Name: _____		<u>Mill Iron 2354-01</u>	
Address: <u>240 S. Main St</u> _____		Address: _____ _____		Task Number (Lab Use Only)	
City <u>Brighton</u> State <u>CO</u> Zip <u>80601</u>		City _____ State _____ Zip _____			
Phone: <u>303-659-2313</u> Fax: <u>303-659-2315</u>		Phone: _____ Fax: _____			
Email: <u>stuartnielson@coloradolab.com</u>		Email: _____		Disposal Date (Lab Use Only)	
Sample Collector: <u>Thad Miller</u>		PO No.: _____			

[illegible]



Hazen Research, Inc.
4601 Indiana Street
Golden, CO 80403 USA
Tel: (303) 279-4501
Fax: (303) 278-1528

Lab Control ID: 18M02695

Received: Sep 13, 2018

Reported: Oct 03, 2018

Purchase Order No.

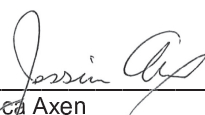
None Received

Customer ID: 20040H
Account ID: Z01034

Stuart Nielson
Colorado Analytical Laboratories, Inc.
PO Box 507
240 South Main Street
Brighton, CO 80601

ANALYTICAL REPORT

*Report may only be copied in its entirety.
Results reported herein relate only to discrete samples
submitted by the client. Hazen Research, Inc. does not warrant
that the results are representative of anything other than the
samples that were received in the laboratory*

By: 
Jessica Axen
Analytical Laboratories Director

Customer ID: 20040H
 Account ID: Z01034
ANALYTICAL REPORT

Stuart Nielson
 Colorado Analytical Laboratories, Inc.

Lab Sample ID			18M02695-001					
Customer Sample ID			180912021-01D - MW-3					
			sampled on 09/12/18 @ 0920 by Thad Miller					
			Precision*		Detection		Analysis	
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst
Gross Alpha	pCi/L	T	120	30	0.2	SM 7110 B	10/1/18 @ 0651	AN
Gross Beta	pCi/L	T	44	12	14.0	SM 7110 B	10/1/18 @ 0651	AN

Certification ID's: CO/EPA CO00008; CT PH-0152; KS E-10265; NJ CO008; NYSELAP (NELAC Certified) 11417; RI LAO00284; WI 998376610, TX T104704256-15-6

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

Codes: (T) = Total (D) = Dissolved (S) = Suspended (R) = Total Residual (AR) = As Received < = Less Than

 18M02695
Colorado Analytical
Laboratories, Inc.

Brighton Lab
240 South Main Street
Brighton, CO 80601
Lakewood Lab
12860 W. Cedar Dr., Suite 100A
Lakewood CO 80228

Phone: 303-659-2313
Fax: 303-659-2315
www.coloradolab.com

C/S Info:		SAMPLE DATE	
SAMPLE 1, AREA 1			