

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 14, 2019

Andy Verbonitz

LT Environmental, Inc.

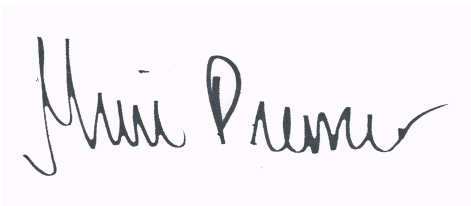
4600 West 60th Avenue

Arvada, CO 80003

RE: Cockrofit Spreadfield

Enclosed are the results of analyses for samples received by Summit Scientific on 01/07/19 15:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Ben Shrewsbury

Laboratory Manager



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: Cockroft Spreadfield

Project Number: 62318003
Project Manager: Andy Verbonitz

Reported:
01/14/19 14:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
COMP07-3	1901075-01	Soil	01/07/19 10:45	01/07/19 15:55
COMP08-3	1901075-02	Soil	01/07/19 11:00	01/07/19 15:55
COMP10-2	1901075-03	Soil	01/07/19 11:20	01/07/19 15:55

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192/075

Summit Scientific

S₂

741 Corporate Circle, Suite J ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933

Client: <u>LT Environmental</u>	Project Manager: <u>Andy Verbonitz</u>
Address: <u>4600 W 60th Ave</u>	E-Mail: <u>averbonitz@ltenv.com</u>
City/State/Zip: <u>Arvada CO 80003</u>	
Phone: <u>303 433 9788</u> Fax: <u>NA</u>	Project Name: <u>Cockroft Spreadfield</u>
Sampler Name:	Project Number: <u>062318003</u>

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	EC	Assemic				
1	Comp 07-3	1-7-19	1045	2			X			X				X				
2	Comp 08-3	1-7-19	1100	2			X			X				X				
3	Comp 10-2	1-7-19	1120	2			X			X				X	X			
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Relinquished by:	Date/Time: <u>1-7-19 1555</u>	Received by:	Date/Time: <u>1-7-19 1555</u>	Turn Around Time (Check)	Notes:	
				Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>	<div style="text-align: right;"> <u>B.S.C.</u> </div>
				24 hours <input type="checkbox"/>	Standard <input checked="" type="checkbox"/>	
				48 hours <input type="checkbox"/>		
				Sample Integrity:		
				Temperature Upon Receipt: <u>B.S.C.</u>		
				Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No		

Sample Receipt Checklist

S2 Work Order 1901075
 Client: LTE Client Project ID: Cockcroft Greenfield

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

Matrix (check all that apply): Air Soil/Solid Water Other: _____
 (Describe)

Temp (°C)	
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Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

Eric N
 Custodian Printed Name or Initials

[Signature]
 Signature of Custodian

1-7-19 15:55
 Date/Time



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COMP07-3
1901075-01 (Soil)

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Specific Conductance by EPA Method 120.1

Date Sampled: **01/07/19 10:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	10.9	0.0100	mmhos/cm	1	1901093	01/09/19	01/09/19	EPA 120.1	

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Reported:
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COMP08-3
1901075-02 (Soil)

Summit Scientific

Specific Conductance by EPA Method 120.1

Date Sampled: **01/07/19 11:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	4.70	0.0100	mmhos/cm	1	1901093	01/09/19	01/09/19	EPA 120.1	

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COMP10-2
1901075-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **01/07/19 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.923	0.200	mg/kg dry	1	1901079	01/08/19	01/08/19	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/07/19 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	97.4		%	1	1901092	01/09/19	01/09/19	Calculation	

Specific Conductance by EPA Method 120.1

Date Sampled: **01/07/19 11:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.10	0.0100	mmhos/cm	1	1901093	01/09/19	01/09/19	EPA 120.1	

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Total Metals by EPA 6020B - Quality Control

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Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 1901079 - EPA 3050B

Blank (1901079-BLK1)

Prepared & Analyzed: 01/08/19

Arsenic ND 0.200 mg/kg wet

LCS (1901079-BS1)

Prepared & Analyzed: 01/08/19

Arsenic 41.5 0.200 mg/kg wet 40.0 104 80-120

Duplicate (1901079-DUP1)

Source: 1901064-01

Prepared & Analyzed: 01/08/19

Arsenic 6.03 0.200 mg/kg dry 6.18 2.47 20

Matrix Spike (1901079-MS1)

Source: 1901064-01

Prepared & Analyzed: 01/08/19

Arsenic 43.5 0.200 mg/kg dry 44.0 6.18 84.7 75-125

Matrix Spike Dup (1901079-MSD1)

Source: 1901064-01

Prepared & Analyzed: 01/08/19

Arsenic 44.5 0.200 mg/kg dry 44.0 6.18 87.1 75-125 2.35 25

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Reported:
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Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

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Analyte	Result	Reporting		Spike	Source		%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 1901092 - General Preparation

Duplicate (1901092-DUP1)

Source: 1901046-01

Prepared & Analyzed: 01/09/19

% Solids	88.3		%		88.6			0.339		20	
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Specific Conductance by EPA Method 120.1 - Quality Control
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Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 1901093 - General Preparation

Blank (1901093-BLK1)

Prepared & Analyzed: 01/09/19

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (1901093-BS1)

Prepared & Analyzed: 01/09/19

Specific Conductance (EC) 0.794 0.0100 mmhos/cm 0.750 106 90-110

Duplicate (1901093-DUP1)

Source: 1901051-01

Prepared & Analyzed: 01/09/19

Specific Conductance (EC) 5.16 0.0100 mmhos/cm 5.14 0.291 20

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Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference