

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 29, 2019

Jeremy Pike

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: Vic 1

Work Order # 1907314

Enclosed are the results of analyses for samples received by Summit Scientific on 07/25/19 18:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Paul Shrewsbury', written in a cursive style.

Paul Shrewsbury For Ben Shrewsbury

Laboratory Manager



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

Project: Vic 1

Project Number: 027318139
Project Manager: Jeremy Pike

Reported:
07/29/19 06:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS02@16'	1907314-01	Soil	07/25/19 14:00	07/25/19 18:05
SS01@22'	1907314-02	Soil	07/25/19 15:40	07/25/19 18:05

Sample Receipt Checklist

S2 Work Order 1907314

Client: LTE Client Project ID: Vic1

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

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

Temp (°C)	<u>10.7°</u>
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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"/>			<u>on ice</u>
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input checked="" type="checkbox"/>			<u>24 hr</u>
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			<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 checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?			<input checked="" type="checkbox"/>	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

AT
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

7-25-19 18:05
Date/Time



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SS02@16'
1907314-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/25/19 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.0052	0.0020	mg/kg	1	1907369	07/25/19	07/25/19	EPA 8260B	
Toluene	0.020	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.0061	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.065	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/25/19 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		73.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.8 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/25/19 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1907357	07/25/19	07/25/19	EPA 8015M	

Date Sampled: **07/25/19 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		114 %	30-150		"	"	"	"	

Summit Scientific

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Reported:
07/29/19 06:29

SS01@22'
1907314-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/25/19 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.0032	0.0020	mg/kg	1	1907369	07/25/19	07/25/19	EPA 8260B	
Toluene	0.013	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.011	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.23	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	6.1	0.50	"	"	"	"	"	"	

Date Sampled: **07/25/19 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		57.2 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		93.3 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/25/19 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1907357	07/25/19	07/25/19	EPA 8015M	

Date Sampled: **07/25/19 15:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		116 %	30-150		"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1907369 - EPA 5030 Soil MS

Blank (1907369-BLK1)

Prepared & Analyzed: 07/25/19

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0224		"	0.0400		55.9	23-173			
Surrogate: Toluene-d8	0.0362		"	0.0400		90.5	20-170			
Surrogate: 4-Bromofluorobenzene	0.0334		"	0.0400		83.5	21-167			

LCS (1907369-BS1)

Prepared & Analyzed: 07/25/19

Benzene	0.0877	0.0020	mg/kg	0.100		87.7	70-130			
Toluene	0.0938	0.0050	"	0.100		93.8	70-130			
Ethylbenzene	0.0926	0.0050	"	0.100		92.6	70-130			
m,p-Xylene	0.211	0.010	"	0.200		105	70-130			
o-Xylene	0.0926	0.0050	"	0.100		92.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0398		"	0.0400		99.4	23-173			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.0	20-170			
Surrogate: 4-Bromofluorobenzene	0.0423		"	0.0400		106	21-167			

Matrix Spike (1907369-MS1)

Source: 1907314-01

Prepared: 07/25/19 Analyzed: 07/26/19

Benzene	0.0900	0.0020	mg/kg	0.100	0.00519	84.8	70-130			
Toluene	0.131	0.0050	"	0.100	0.0196	111	70-130			
Ethylbenzene	0.113	0.0050	"	0.100	0.00612	107	70-130			
m,p-Xylene	0.340	0.010	"	0.200	0.0438	148	70-130			QM-07
o-Xylene	0.160	0.0050	"	0.100	0.0215	138	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0319		"	0.0400		79.8	23-173			
Surrogate: Toluene-d8	0.0373		"	0.0400		93.3	20-170			
Surrogate: 4-Bromofluorobenzene	0.0358		"	0.0400		89.6	21-167			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control
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Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch 1907369 - EPA 5030 Soil MS

Matrix Spike Dup (1907369-MSD1)

Source: 1907314-01

Prepared: 07/25/19 Analyzed: 07/26/19

Benzene	0.0889	0.0020	mg/kg	0.100	0.00519	83.7	70-130	1.31	30	
Toluene	0.118	0.0050	"	0.100	0.0196	98.0	70-130	10.6	30	
Ethylbenzene	0.121	0.0050	"	0.100	0.00612	115	70-130	6.10	30	
m,p-Xylene	0.295	0.010	"	0.200	0.0438	126	70-130	13.9	30	
o-Xylene	0.137	0.0050	"	0.100	0.0215	116	70-130	15.2	30	
Surrogate: 1,2-Dichloroethane-d4	0.0281		"	0.0400		70.2	23-173			
Surrogate: Toluene-d8	0.0377		"	0.0400		94.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0354		"	0.0400		88.6	21-167			

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control
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Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 1907357 - EPA 3550A

Blank (1907357-BLK1)

Prepared & Analyzed: 07/25/19

C10-C28 (DRO) ND 50 mg/kg

LCS (1907357-BS1)

Prepared & Analyzed: 07/25/19

C10-C28 (DRO) 522 50 mg/kg 500 104 70-130

Matrix Spike (1907357-MS1)

Source: 1907216-01

Prepared & Analyzed: 07/25/19

C10-C28 (DRO) 534 50 mg/kg 500 44.1 97.9 70-130

Matrix Spike Dup (1907357-MSD1)

Source: 1907216-01

Prepared & Analyzed: 07/25/19

C10-C28 (DRO) 500 50 mg/kg 500 44.1 91.2 70-130 6.54 20

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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- 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