

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 30, 2019

Jeremy Pike

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: Vic 1

Work Order # 1907339

Enclosed are the results of analyses for samples received by Summit Scientific on 07/29/19 16:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



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:
07/30/19 06:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS06@18'	1907339-01	Soil	07/29/19 13:30	07/29/19 16:50
SS07@18'	1907339-02	Soil	07/29/19 14:00	07/29/19 16:50

Summit Scientific

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Summit Scientific

S₂

1907339

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: LT Environmental, Inc.

Project Manager: Jeremy Pike

Address: 4600 West 60th Avenue

E-Mail: jpike@ltenv.com

City/State/Zip: Arvada, Colorado 80003

Phone: 303-433-9788

Project Name: Vic 1

Sampler Name: Drew Bullyger

Project Number: 027318139

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions		
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	GBTEX	TPH-DRO					
1	SS06 @ 18'	7/29/19	13:30	2			X			X				X	X				
2	SS07 @ 18'	7/29/19	14:08	2			X			X				X	X				
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished by: <i>Drew Bullyger</i>	Date/Time: 7/29/19 16:50	Received by: <i>[Signature]</i>	Date/Time: 7-29-19 16:50	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 hours ___ 24 hours ___ Standard 48 hours ___ Sample Integrity: Temperature Upon Receipt: 6.7 Samples Intact: <input checked="" type="checkbox"/> Yes No
Relinquished by:	Date/Time:	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	

Sample Receipt Checklist

S2 Work Order 1907339

Client: LT Environmental Client Project ID: Vic 1

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

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

Temp (°C)	6.7
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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.	✓			On Ice
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
If custody seals are present, are they intact ⁽¹⁾ ?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?	✓			Same Day TAT
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			✓	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	

Additional Comments (if any):

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

MP
Custodian Printed Name or Initials

Muri Premer
Signature of Custodian

7/29/19
Date/Time



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

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SS06@18'
1907339-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/29/19 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1907401	07/29/19	07/30/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.022	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.2	0.50	"	"	"	"	"	"	

Date Sampled: **07/29/19 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		59.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		93.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.8 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/29/19 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1907397	07/29/19	07/29/19	EPA 8015M	

Date Sampled: **07/29/19 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		105 %	30-150		"	"	"	"	

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Project: Vic 1
Project Number: 027318139
Project Manager: Jeremy Pike

Reported:
07/30/19 06:40

SS07@18'
1907339-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/29/19 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1907401	07/29/19	07/30/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/29/19 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		62.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		88.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		91.0 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/29/19 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1907397	07/29/19	07/29/19	EPA 8015M	

Date Sampled: **07/29/19 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		110 %	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 1907401 - EPA 5030 Soil MS

Blank (1907401-BLK1)

Prepared: 07/29/19 Analyzed: 07/30/19

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	0.0218		"	0.0400		54.5	23-173			
Surrogate: Toluene-d8	0.0354		"	0.0400		88.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0322		"	0.0400		80.6	21-167			

LCS (1907401-BS1)

Prepared: 07/29/19 Analyzed: 07/30/19

Benzene	0.0772	0.0020	mg/kg	0.100		77.2	70-130			
Toluene	0.0837	0.0050	"	0.100		83.7	70-130			
Ethylbenzene	0.111	0.0050	"	0.100		111	70-130			
m,p-Xylene	0.217	0.010	"	0.200		108	70-130			
o-Xylene	0.0973	0.0050	"	0.100		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0250		"	0.0400		62.4	23-173			
Surrogate: Toluene-d8	0.0372		"	0.0400		93.1	20-170			
Surrogate: 4-Bromofluorobenzene	0.0341		"	0.0400		85.4	21-167			

Matrix Spike (1907401-MS1)

Source: 1907339-01

Prepared: 07/29/19 Analyzed: 07/30/19

Benzene	0.0787	0.0020	mg/kg	0.100	ND	78.7	70-130			
Toluene	0.0875	0.0050	"	0.100	ND	87.5	70-130			
Ethylbenzene	0.111	0.0050	"	0.100	ND	111	70-130			
m,p-Xylene	0.245	0.010	"	0.200	0.0130	116	70-130			
o-Xylene	0.121	0.0050	"	0.100	0.00954	111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0255		"	0.0400		63.7	23-173			
Surrogate: Toluene-d8	0.0366		"	0.0400		91.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.0	21-167			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1907401 - EPA 5030 Soil MS

Matrix Spike Dup (1907401-MSD1)

Source: 1907339-01

Prepared: 07/29/19 Analyzed: 07/30/19

Benzene	0.0768	0.0020	mg/kg	0.100	ND	76.8	70-130	2.47	30	
Toluene	0.0858	0.0050	"	0.100	ND	85.8	70-130	1.97	30	
Ethylbenzene	0.117	0.0050	"	0.100	ND	117	70-130	5.28	30	
m,p-Xylene	0.240	0.010	"	0.200	0.0130	113	70-130	2.02	30	
o-Xylene	0.113	0.0050	"	0.100	0.00954	104	70-130	6.26	30	
Surrogate: 1,2-Dichloroethane-d4	0.0232		"	0.0400		58.0	23-173			
Surrogate: Toluene-d8	0.0364		"	0.0400		91.1	20-170			
Surrogate: 4-Bromofluorobenzene	0.0365		"	0.0400		91.4	21-167			

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Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1907397 - EPA 3550A

Blank (1907397-BLK1)

Prepared & Analyzed: 07/29/19

C10-C28 (DRO) ND 50 mg/kg

LCS (1907397-BS1)

Prepared & Analyzed: 07/29/19

C10-C28 (DRO) 508 50 mg/kg 500 102 70-130

Matrix Spike (1907397-MS1)

Source: 1907338-01

Prepared & Analyzed: 07/29/19

C10-C28 (DRO) 525 50 mg/kg 500 34.4 98.1 70-130

Matrix Spike Dup (1907397-MSD1)

Source: 1907338-01

Prepared & Analyzed: 07/29/19

C10-C28 (DRO) 527 50 mg/kg 500 34.4 98.5 70-130 0.349 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