

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

February 25, 2014

Jake Janicek
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: NEP - 1K

Enclosed are the results of analyses for samples received by Summit Scientific on 02/25/14 10:22. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'BS' or 'Shrewsbury', written in a cursive style.

Ben Shrewsbury
President / Laboratory Manager



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

Project: NEP - 1K
Project Number: 0083-13115
Project Manager: Jake Janicek

Reported:
02/25/14 23:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NEW@12' bgs	1402132-01	Soil	02/24/14 11:30	02/25/14 10:22
NW@10' bgs	1402132-02	Soil	02/24/14 12:00	02/25/14 10:22
NB@17'bgs	1402132-03	Soil	02/24/14 13:40	02/25/14 10:22
NWW@10'bgs	1402132-04	Soil	02/24/14 13:45	02/25/14 10:22

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

Project: NEP - 1K

Project Number: 0083-13115

Project Manager: Jake Janicek

Reported:

02/25/14 23:30

1402132

Summit Scientific

S₂

741 Corporate Circle Suite 1 • Golden, Colorado 80401

303-277-9310 • 303-374-5933 Fax

Page 1 of 1

Client: LT Environmental

Address: (C) Megan Ave. Unit B

City/State/Zip: Rte, CO 81659

Phone: 970-285-5985

Fax:

Project Name:

IK

Sampler Name: Dustin Held

Project Number:

00831315

Project Manager: Jake Janicek

E-Mail: jjanicek@item.com, rfishburn@item.com

Sample Description		Date Sampled	Time Sampled	Sample Depth	Number of Containers	Preservative			Matrix		Analyze For:										Special Instructions						
						HCl	HNO ₃	None	Other (Specify)	Groundwater	Air - Canister Serial #	Other (Specify)	TPH GRO/DRO	BTEX	Arsenic	FE	PH	SAR									
W&W 2' 10" 105		2/24/14	1630	12'	3					X						X	X	X									
W&W 2' 10" 105		2/24/14	1700	10'	3					X						X	X	X									
W&W 2' 10" 105		2/24/14	1740	17'	3					X						X	X	X									
W&W 2' 10" 105		2/24/14	1845	10'	3					X						X	X	X									

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time (Check)	Notes:
Dr. P	2/24/14 1630	CPX	2/24/14 1620	<input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input checked="" type="checkbox"/> Standard	Please direct all Asher Weinberg at Noble Energy.
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	
965	2/24/14 1640	Fecky		<input checked="" type="checkbox"/> Temperature <input checked="" type="checkbox"/> Pressure <input checked="" type="checkbox"/> Location	4.7
Relinquished by:	Date/Time:	Received by:	Date/Time:	Temperature	Yes No
		11	2/25/14 10:22		

www.s2scientific.com

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LT Environmental, Inc.
4600 West 60th Avenue
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Project: NEP - 1K
Project Number: 0083-13115
Project Manager: Jake Janicek

Reported:
02/25/14 23:30

NEW@12' bgs
1402132-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 02/24/14 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1402170	02/25/14	02/25/14	8015M	

Date Sampled: 02/24/14 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		100 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 02/24/14 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1402169	02/25/14	02/25/14	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 02/24/14 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.0 %	21-167		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 02/24/14 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.50	0.0888	mg/kg dry	1	1402168	02/25/14	02/25/14	EPA 6020A	

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Project: NEP - 1K
Project Number: 0083-13115
Project Manager: Jake Janicek

Reported:
02/25/14 23:30

NEW@12' bgs
1402132-01 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: 02/24/14 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	239	7.89	mg/kg dry	1	1402163	02/25/14	02/25/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	137	3.94	"	"	"	"	"	"	
Sodium	1010	3.94	"	"	"	"	"	"	

Date Sampled: 02/24/14 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	12.9		units	"	1402164	02/25/14	02/25/14	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 02/24/14 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.28	0.0100	mmhos/cm	1	1402166	02/25/14	02/25/14	SM 2510B	

Date Sampled: 02/24/14 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.18	0.100	pH Units	"	1402165	02/25/14	02/25/14	EPA 9045	

Date Sampled: 02/24/14 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.4		%	"	1402162	02/25/14	02/25/14	% calculation	

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Project: NEP - 1K
Project Number: 0083-13115
Project Manager: Jake Janicek

Reported:
02/25/14 23:30

NW@10' bgs
1402132-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 02/24/14 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1402170	02/25/14	02/25/14	8015M	

Date Sampled: 02/24/14 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 02/24/14 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1402169	02/25/14	02/25/14	EPA 8260B	
Toluene	0.011	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.055	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.1	0.50	"	"	"	"	"	"	

Date Sampled: 02/24/14 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	21-167		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 02/24/14 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.60	0.115	mg/kg dry	1	1402168	02/25/14	02/25/14	EPA 6020A	

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Reported:
02/25/14 23:30

NW@10' bgs
1402132-02 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: 02/24/14 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1470	13.0	mg/kg dry	1	1402163	02/25/14	02/25/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	1020	6.50	"	"	"	"	"	"	
Sodium	4170	6.50	"	"	"	"	"	"	

Date Sampled: 02/24/14 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	20.4		units	"	1402164	02/25/14	02/25/14	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 02/24/14 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.77	0.0100	mmhos/cm	1	1402166	02/25/14	02/25/14	SM 2510B	

Date Sampled: 02/24/14 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.28	0.100	pH Units	"	1402165	02/25/14	02/25/14	EPA 9045	

Date Sampled: 02/24/14 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	55.5		%	"	1402162	02/25/14	02/25/14	% calculation	

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Project: NEP - 1K
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Project Manager: Jake Janicek

Reported:
02/25/14 23:30

NB@17'bgs
1402132-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 02/24/14 13:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1402170	02/25/14	02/25/14	8015M	

Date Sampled: 02/24/14 13:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		106 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 02/24/14 13:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1402169	02/25/14	02/25/14	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 02/24/14 13:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.1 %	21-167		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 02/24/14 13:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	8.32	0.0908	mg/kg dry	1	1402168	02/25/14	02/25/14	EPA 6020A	

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Project Manager: Jake Janicek

Reported:
02/25/14 23:30

NB@17'bgs
1402132-03 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: 02/24/14 13:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	184	9.65	mg/kg dry	1	1402163	02/25/14	02/25/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	35.6	4.83	"	"	"	"	"	"	
Sodium	1880	4.83	"	"	"	"	"	"	

Date Sampled: 02/24/14 13:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	33.2		units	"	1402164	02/25/14	02/25/14	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 02/24/14 13:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.59	0.0100	mmhos/cm	1	1402166	02/25/14	02/25/14	SM 2510B	

Date Sampled: 02/24/14 13:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.66	0.100	pH Units	"	1402165	02/25/14	02/25/14	EPA 9045	

Date Sampled: 02/24/14 13:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.5		%	"	1402162	02/25/14	02/25/14	% calculation	

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Project: NEP - 1K
Project Number: 0083-13115
Project Manager: Jake Janicek

Reported:
02/25/14 23:30

NWW@10'bgs
1402132-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 02/24/14 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1402170	02/25/14	02/25/14	8015M	

Date Sampled: 02/24/14 13:45

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 02/24/14 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1402169	02/25/14	02/25/14	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 02/24/14 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.3 %	21-167		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 02/24/14 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	8.03	0.0868	mg/kg dry	1	1402168	02/25/14	02/25/14	EPA 6020A	

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Project: NEP - 1K
Project Number: 0083-13115
Project Manager: Jake Janicek

Reported:
02/25/14 23:30

NWW@10'bgs
1402132-04 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **02/24/14 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	510	11.9	mg/kg dry	1	1402163	02/25/14	02/25/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	256	5.97	"	"	"	"	"	"	
Sodium	2740	5.97	"	"	"	"	"	"	

Date Sampled: **02/24/14 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	24.7		units	"	1402164	02/25/14	02/25/14	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **02/24/14 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.89	0.0100	mmhos/cm	1	1402166	02/25/14	02/25/14	SM 2510B	

Date Sampled: **02/24/14 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.13	0.100	pH Units	"	1402165	02/25/14	02/25/14	EPA 9045	

Date Sampled: **02/24/14 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.7		%	"	1402162	02/25/14	02/25/14	% calculation	

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Project Number: 0083-13115
Project Manager: Jake Janicek

Reported:
02/25/14 23:30

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1402170 - EPA 3550A

Blank (1402170-BLK1)

Prepared & Analyzed: 02/25/14

C10-C28 (DRO) ND 50 mg/kg

LCS (1402170-BS1)

Prepared & Analyzed: 02/25/14

C10-C28 (DRO) 533 50 mg/kg 488 109 73-134

Matrix Spike (1402170-MS1)

Source: 1402132-01

Prepared & Analyzed: 02/25/14

C10-C28 (DRO) 548 50 mg/kg 490 ND 112 50-148

Matrix Spike Dup (1402170-MSD1)

Source: 1402132-01

Prepared & Analyzed: 02/25/14

C10-C28 (DRO) 554 50 mg/kg 487 ND 114 50-148 1.12 13

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Reported:
02/25/14 23:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch 1402169 - EPA 5030 Soil MS

Blank (1402169-BLK1)

Prepared & Analyzed: 02/25/14

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0379		"	0.0395	96.0	23-173				
Surrogate: Toluene-d8	0.0379		"	0.0398	95.2	20-170				
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0398	96.1	21-167				

LCS (1402169-BS1)

Prepared & Analyzed: 02/25/14

Benzene	0.00758	0.00018	mg/kg	0.00890	85.1	58-130				
Toluene	0.00821	0.00045	"	0.00893	92.0	61-134				
Ethylbenzene	0.00915	0.00045	"	0.00886	103	74-139				
m,p-Xylene	0.0184	0.00089	"	0.0179	103	73-137				
o-Xylene	0.00909	0.00045	"	0.00882	103	73-141				
Surrogate: 1,2-Dichloroethane-d4	0.00352		"	0.00354	99.3	23-173				
Surrogate: Toluene-d8	0.00345		"	0.00357	96.7	20-170				
Surrogate: 4-Bromofluorobenzene	0.00351		"	0.00357	98.2	21-167				

LCS (1402169-BS2)

Prepared & Analyzed: 02/25/14

Benzene	0.0808	0.0020	mg/kg	0.0966	83.6	58-130				
Toluene	0.0874	0.0050	"	0.0969	90.2	61-134				
Ethylbenzene	0.0997	0.0050	"	0.0961	104	74-139				
m,p-Xylene	0.200	0.010	"	0.194	103	73-137				
o-Xylene	0.0976	0.0050	"	0.0957	102	73-141				
Surrogate: 1,2-Dichloroethane-d4	0.0365		"	0.0385	95.0	23-173				
Surrogate: Toluene-d8	0.0369		"	0.0388	95.1	20-170				
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0388	97.0	21-167				

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Project Number: 0083-13115
Project Manager: Jake Janicek

Reported:
02/25/14 23:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch 1402169 - EPA 5030 Soil MS

Matrix Spike (1402169-MS1)		Source: 1402132-01			Prepared & Analyzed: 02/25/14					
Benzene	0.0829	0.0020	mg/kg	0.0974	ND	85.2	30-131			
Toluene	0.0896	0.0050	"	0.0977	ND	91.7	30-134			
Ethylbenzene	0.101	0.0050	"	0.0969	ND	104	22-153			
m,p-Xylene	0.204	0.010	"	0.195	ND	105	10-159			
o-Xylene	0.102	0.0050	"	0.0965	ND	105	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0398		"	0.0388		103	23-173			
Surrogate: Toluene-d8	0.0377		"	0.0391		96.5	20-170			
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0391		98.2	21-167			

Matrix Spike (1402169-MS2)		Source: 1402145-01			Prepared & Analyzed: 02/25/14					
Benzene	0.0766	0.0020	mg/kg	0.0920	ND	83.3	30-131			
Toluene	0.0845	0.0050	"	0.0923	ND	91.6	30-134			
Ethylbenzene	0.0939	0.0050	"	0.0915	ND	103	22-153			
m,p-Xylene	0.192	0.010	"	0.185	ND	104	10-159			
o-Xylene	0.0943	0.0050	"	0.0911	ND	103	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0378		"	0.0366		103	23-173			
Surrogate: Toluene-d8	0.0356		"	0.0369		96.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0356		"	0.0369		96.5	21-167			

Matrix Spike Dup (1402169-MSD1)		Source: 1402132-01			Prepared & Analyzed: 02/25/14					
Benzene	0.0802	0.0020	mg/kg	0.0961	ND	83.5	30-131	3.36	34	
Toluene	0.0877	0.0050	"	0.0963	ND	91.0	30-134	2.08	30	
Ethylbenzene	0.0964	0.0050	"	0.0956	ND	101	22-153	4.52	24	
m,p-Xylene	0.198	0.010	"	0.193	ND	103	10-159	3.44	68	
o-Xylene	0.0979	0.0050	"	0.0952	ND	103	31-151	3.69	38	
Surrogate: 1,2-Dichloroethane-d4	0.0407		"	0.0382		106	23-173			
Surrogate: Toluene-d8	0.0374		"	0.0385		97.0	20-170			
Surrogate: 4-Bromofluorobenzene	0.0378		"	0.0385		98.0	21-167			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: NEP - 1K
Project Number: 0083-13115
Project Manager: Jake Janicek

Reported:
02/25/14 23:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch 1402169 - EPA 5030 Soil MS

Matrix Spike Dup (1402169-MSD2)	Source: 1402145-01			Prepared & Analyzed: 02/25/14						
Benzene	0.0803	0.0020	mg/kg	0.0939	ND	85.5	30-131	4.65	34	
Toluene	0.0875	0.0050	"	0.0942	ND	93.0	30-134	3.48	30	
Ethylbenzene	0.0977	0.0050	"	0.0934	ND	105	22-153	4.01	24	
m,p-Xylene	0.198	0.010	"	0.188	ND	105	10-159	3.34	68	
o-Xylene	0.0991	0.0050	"	0.0930	ND	106	31-151	4.94	38	
Surrogate: 1,2-Dichloroethane-d4	0.0388		"	0.0374		104	23-173			
Surrogate: Toluene-d8	0.0367		"	0.0377		97.5	20-170			
Surrogate: 4-Bromofluorobenzene	0.0364		"	0.0377		96.7	21-167			

Summit Scientific

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

Project: NEP - 1K
Project Number: 0083-13115
Project Manager: Jake Janicek

Reported:
02/25/14 23:30

Total Metals by EPA Method 6020 - Dry Weight Basis - Quality Control
Summit Scientific

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

Batch 1402168 - EPA 3050B

Blank (1402168-BLK1)

Prepared & Analyzed: 02/25/14

Arsenic ND 0.0889 mg/kg wet

LCS (1402168-BS1)

Prepared & Analyzed: 02/25/14

Arsenic 2.77 0.100 mg/kg wet 2.36 118 80-120

Matrix Spike (1402168-MS1)

Source: 1402109-02

Prepared & Analyzed: 02/25/14

Arsenic 6.02 0.100 mg/kg dry 2.48 4.82 48.5 75-125 QM-07

Matrix Spike Dup (1402168-MSD1)

Source: 1402109-02

Prepared & Analyzed: 02/25/14

Arsenic 7.37 0.138 mg/kg dry 3.20 4.82 79.7 75-125 20.1 25

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

Project: NEP - 1K
Project Number: 0083-13115
Project Manager: Jake Janicek

Reported:
02/25/14 23:30

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis - Quality Control
Summit Scientific

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

Batch 1402163 - General Preparation

Blank (1402163-BLK1)

Prepared & Analyzed: 02/25/14

Calcium	ND	9.06	mg/kg wet
Magnesium	ND	4.53	"
Sodium	ND	13.6	"

LCS (1402163-BS1)

Prepared & Analyzed: 02/25/14

Calcium	343	8.77	mg/kg wet	336	102	80-120
Magnesium	181	4.39	"	168	107	80-120
Sodium	447	13.2	"	420	106	80-120

LCS Dup (1402163-BSD1)

Prepared & Analyzed: 02/25/14

Calcium	401	10.0	mg/kg wet	371	108	80-120	15.5	20
Magnesium	205	5.00	"	186	110	80-120	12.8	20
Sodium	517	15.0	"	464	111	80-120	14.5	20

Matrix Spike (1402163-MS1)

Source: 1402123-01

Prepared & Analyzed: 02/25/14

Calcium	562	10.9	mg/kg dry	400	66.5	124	75-125
Magnesium	288	5.44	"	201	114	86.7	75-125
Sodium	947	16.3	"	500	449	99.5	75-125

Matrix Spike Dup (1402163-MSD1)

Source: 1402123-01

Prepared & Analyzed: 02/25/14

Calcium	542	10.9	mg/kg dry	389	66.5	122	75-125	3.56	25
Magnesium	272	5.44	"	195	114	80.9	75-125	5.65	25
Sodium	919	16.3	"	487	449	96.5	75-125	2.99	25

Summit Scientific

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

Project: NEP - 1K
Project Number: 0083-13115
Project Manager: Jake Janicek

Reported:
02/25/14 23:30

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

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

Batch 1402162 - General Preparation

Duplicate (1402162-DUP1)		Source: 1402123-01			Prepared & Analyzed: 02/25/14						
% Solids	91.9		%		91.9			0.00		20	

Batch 1402165 - General Preparation

LCS (1402165-BS1)		Prepared & Analyzed: 02/25/14									
pH	8.03	0.100	pH Units	8.00		100	0-200				
Duplicate (1402165-DUP1)		Source: 1402123-01			Prepared & Analyzed: 02/25/14						
pH	7.14	0.100	pH Units	6.80				4.88		20	

Batch 1402166 - General Preparation

Blank (1402166-BLK1)		Prepared & Analyzed: 02/25/14									
Specific Conductance (EC)	ND	0.0500	mmhos/cm								
Duplicate (1402166-DUP1)		Source: 1402123-01			Prepared & Analyzed: 02/25/14						
Specific Conductance (EC)	1.38	0.0500	mmhos/cm	1.41				2.19		20	

Summit Scientific

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

Project: NEP - 1K
Project Number: 0083-13115
Project Manager: Jake Janicek

Reported:
02/25/14 23:30

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