

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109



FOR OGCC USE ONLY

RECEIVED
8/8/2013

SPILL/RELEASE REPORT

This form is to be submitted by the party responsible for the oil and gas spill or release. Any spill or release which may impact waters of the State must be reported as soon as practicable; any spill over 20 bbls must be reported within 24 hours and all spills over five bbls must be reported within ten days. Submit a Site Investigation and Remediation Workplan (Form 27) when requested by the Director.

Spill report taken by: _____

FACILITY ID: _____

OPERATOR INFORMATION

Name of Operator: _____ OGCC Operator No: _____	Phone Numbers No: _____ Fax: _____ E-Mail: _____
Address: _____	
City: _____ State: _____ Zip: _____	
Contact Person: _____	

DESCRIPTION OF SPILL OR RELEASE

Date of Incident: _____ Facility Name & No.: _____	County: _____
Type of Facility (well, tank battery, flow line, pit): _____	QtrQtr: _____ Section: _____
Well Name and Number: _____	Township: _____ Range: _____
API Number: _____	Meridian: _____
Specify volume spilled and recovered (in bbls) for the following materials: Oil spilled: _____ Oil recov'd: _____ Water spilled: _____ Water recov'd: _____ Other spilled: _____ Other recov'd: _____	
Ground Water impacted? Yes No	Surface Water impacted? Yes No
Contained within berm? Yes No	Area and vertical extent of spill: _____ x _____
Current land use: _____	Weather conditions: _____
Soil/geology description: _____	
IF LESS THAN A MILE , report distance IN FEET to nearest.... Surface water: _____ wetlands: _____ buildings: _____	
Livestock: _____ water wells: _____ Depth to shallowest ground water: _____	
Cause of spill (e.g., equipment failure, human error, etc.): _____ Detailed description of the spill/release incident: _____	

CORRECTIVE ACTION

Describe immediate response (how stopped, contained and recovered):

Describe any emergency pits constructed:

How was the extent of contamination determined:

Further remediation activities proposed (attach separate sheet if needed):

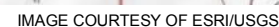
Describe measures taken to prevent problem from reoccurring:

OTHER NOTIFICATIONS

List the parties and agencies notified (County, BLM, EPA, DOT, Local Emergency Planning Coordinator or other).

Date	Agency	Contact	Phone	Response

Spill/Release Tracking No: **2145727**



 SITE LOCATION



NOBLE ENERGY, INC



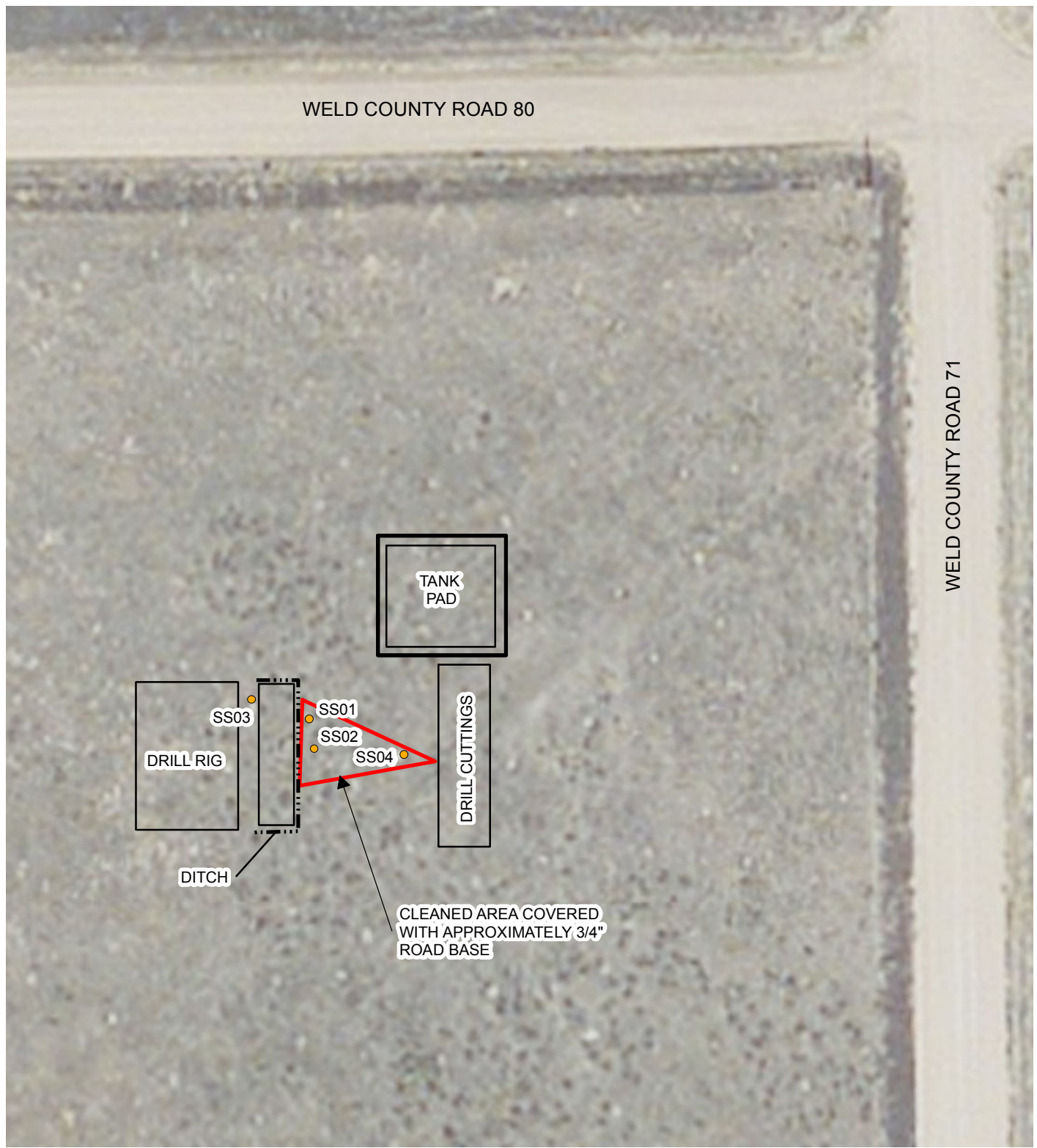


IMAGE COURTESY OF ESRI/BING MAPS

LEGEND

- SOIL SAMPLE
- BERM

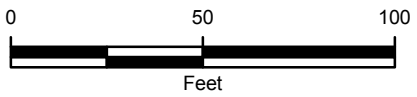


FIGURE 2
SITE MAP
WAHLERT AC 23-69HN
WELD COUNTY, COLORADO

NOBLE ENERGY, INC



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

August 07, 2013

Rob Rebel

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: NEP - Wahlert AC 23-69-HN

Enclosed are the results of analyses for samples received by Summit Scientific on 08/06/13 17:00. 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', with a long, sweeping horizontal line extending to the right.

Ben Shrewsbury

President / Laboratory Manager



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

Project: NEP - Wahlert AC 23-69-HN

Project Number: [none]
Project Manager: Rob Rebel

Reported:
08/07/13 18:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	R308038-01	Soil	08/06/13 12:57	08/06/13 17:00
SS02	R308038-02	Soil	08/06/13 13:11	08/06/13 17:00
SS03	R308038-03	Soil	08/06/13 13:22	08/06/13 17:00
SS04	R308038-04	Soil	08/06/13 13:35	08/06/13 17:00

Summit Scientific

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

Project: NEP - Wahlert AC 23-69-HN

Project Number: [none]
Project Manager: Rob Rebel

Reported:
08/07/13 18:36

Summit Scientific
B30038

S₂
741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-277-9531 Fax

Client: LT Environmental, Inc. Project Manager: ~~John~~ Rob Rehel Page 1 of 1

Address: 4600 West 60th Avenue E-Mail: john@ltenv.com

City/State/Zip: Arvada CO 80003 Project Name: Wahkiak AC 23-06-11N

Phone: (303) 433-9788 Project Number: N5B

Sample Name: GMW2

[illegible]

www.s2scientific.com

Summit Scientific

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

Project: NEP - Wahlert AC 23-69-HN

Project Number: [none]
Project Manager: Rob Rebel

Reported:
08/07/13 18:36

SS01
R308038-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/06/13 12:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	3080614	08/06/13	08/06/13	8015M	

Date Sampled: **08/06/13 12:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		88.8 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/06/13 12:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	3080613	"	08/06/13	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/06/13 12:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	21-167		"	"	"	"	

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

Date Sampled: **08/06/13 12:57**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: NEP - Wahlert AC 23-69-HN

Project Number: [none]
Project Manager: Rob Rebel

Reported:
08/07/13 18:36

SS01
R308038-01 (Soil)

Summit Scientific

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

Calcium	656	10.6 mg/kg dry	1	3080701	08/07/13	08/07/13	EPA 6020/Mod. USDA60 6(2, 3A)
Magnesium	95.8	5.31	"	"	"	"	"
Sodium	47.4	5.31	"	"	"	"	"

Date Sampled: 08/06/13 12:57

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.460		units	"	3080717	08/07/13	08/07/13	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 08/06/13 12:57

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.732	0.00100 mmhos/cm		1	3080618	08/06/13	08/06/13	SM 2510B	

Date Sampled: 08/06/13 12:57

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.14	0.100 pH Units		"	3080619	08/06/13	08/06/13	EPA 9045	

Date Sampled: 08/06/13 12:57

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.1		%	"	3080708	08/07/13	08/07/13	% calculation	

Summit Scientific

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

Project: NEP - Wahlert AC 23-69-HN

Project Number: [none]
Project Manager: Rob Rebel

Reported:
08/07/13 18:36

SS02
R308038-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/06/13 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	3080614	08/06/13	08/06/13	8015M	

Date Sampled: **08/06/13 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		92.5 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/06/13 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	3080613	"	08/06/13	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/06/13 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

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

Date Sampled: **08/06/13 13:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: NEP - Wahlert AC 23-69-HN

Project Number: [none]
Project Manager: Rob Rebel

Reported:
08/07/13 18:36

SS02
R308038-02 (Soil)

Summit Scientific

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

Calcium	763	10.5 mg/kg dry	1	3080701	08/07/13	08/07/13	EPA 6020/Mod. USDA60 6(2, 3A)
Magnesium	96.7	5.23	"	"	"	"	"
Sodium	ND	5.23	"	"	"	"	"

Date Sampled: 08/06/13 13:11

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0400		units	"	3080717	08/07/13	08/07/13	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 08/06/13 13:11

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.81	0.00100 mmhos/cm		1	3080618	08/06/13	08/06/13	SM 2510B	

Date Sampled: 08/06/13 13:11

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.30	0.100 pH Units		"	3080619	08/06/13	08/06/13	EPA 9045	

Date Sampled: 08/06/13 13:11

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.6		%	"	3080708	08/07/13	08/07/13	% calculation	

Summit Scientific

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

Project: NEP - Wahlert AC 23-69-HN

Project Number: [none]
Project Manager: Rob Rebel

Reported:
08/07/13 18:36

SS03
R308038-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/06/13 13:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	3080614	08/06/13	08/06/13	8015M	

Date Sampled: **08/06/13 13:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		90.6 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/06/13 13:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	3080613	"	08/06/13	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/06/13 13:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	21-167		"	"	"	"	

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

Date Sampled: **08/06/13 13:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: NEP - Wahlert AC 23-69-HN

Project Number: [none]
Project Manager: Rob Rebel

Reported:
08/07/13 18:36

SS03
R308038-03 (Soil)

Summit Scientific

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

Calcium	756	10.5 mg/kg dry	1	3080701	08/07/13	08/07/13	EPA 6020/Mod. USDA60 6(2, 3A)
Magnesium	62.4	5.24	"	"	"	"	"
Sodium	247	5.24	"	"	"	"	"

Date Sampled: 08/06/13 13:22

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.32		units	"	3080717	08/07/13	08/07/13	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 08/06/13 13:22

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.760	0.00100 mmhos/cm		1	3080618	08/06/13	08/06/13	SM 2510B	

Date Sampled: 08/06/13 13:22

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.50	0.100 pH Units		"	3080619	08/06/13	08/06/13	EPA 9045	

Date Sampled: 08/06/13 13:22

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.4		%	"	3080708	08/07/13	08/07/13	% calculation	

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

Project: NEP - Wahlert AC 23-69-HN

Project Number: [none]
Project Manager: Rob Rebel

Reported:
08/07/13 18:36

SS04
R308038-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/06/13 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	3080614	08/06/13	08/06/13	8015M	

Date Sampled: **08/06/13 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		90.2 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/06/13 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	3080613	"	08/06/13	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/06/13 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		118 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

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

Date Sampled: **08/06/13 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: NEP - Wahlert AC 23-69-HN

Project Number: [none]
Project Manager: Rob Rebel

Reported:
08/07/13 18:36

SS04
R308038-04 (Soil)

Summit Scientific

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

Calcium	784	10.6 mg/kg dry	1	3080701	08/07/13	08/07/13	EPA 6020/Mod. USDA60 6(2, 3A)
Magnesium	95.7	5.32	"	"	"	"	"
Sodium	59.5	5.32	"	"	"	"	"

Date Sampled: 08/06/13 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.530		units	"	3080717	08/07/13	08/07/13	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 08/06/13 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.586	0.00100 mmhos/cm		1	3080618	08/06/13	08/06/13	SM 2510B	

Date Sampled: 08/06/13 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.83	0.100 pH Units		"	3080619	08/06/13	08/06/13	EPA 9045	

Date Sampled: 08/06/13 13:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.9		%	"	3080708	08/07/13	08/07/13	% calculation	

Summit Scientific

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

Project: NEP - Wahlert AC 23-69-HN

Project Number: [none]
Project Manager: Rob Rebel

Reported:
08/07/13 18:36

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 3080614 - EPA 3550A

Blank (3080614-BLK1)

Prepared: 08/06/13 Analyzed: 08/07/13

C10-C28 (DRO) ND 50 mg/kg

LCS (3080614-BS1)

Prepared: 08/06/13 Analyzed: 08/07/13

C10-C28 (DRO) 590 50 mg/kg 501 118 73-134

LCS Dup (3080614-BSD1)

Prepared: 08/06/13 Analyzed: 08/07/13

C10-C28 (DRO) 576 50 mg/kg 501 115 73-134 2.39 11

Matrix Spike (3080614-MS1)

Source: R308020-01

Prepared: 08/06/13 Analyzed: 08/07/13

C10-C28 (DRO) 609 50 mg/kg 501 38.3 114 50-148

Matrix Spike Dup (3080614-MSD1)

Source: R308020-01

Prepared: 08/06/13 Analyzed: 08/07/13

C10-C28 (DRO) 538 50 mg/kg 501 38.3 99.7 50-148 12.4 13

Summit Scientific

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

Project: NEP - Wahlert AC 23-69-HN

Project Number: [none]
Project Manager: Rob Rebel

Reported:
08/07/13 18:36

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 3080613 - EPA 5030 Soil MS

Blank (3080613-BLK1)

Prepared: 08/06/13 Analyzed: 08/07/13

Naphthalene	ND	0.010	mg/kg							
Benzene	ND	0.0020	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0415		"	0.0397	105	23-173				
Surrogate: Toluene-d8	0.0398		"	0.0400	99.4	20-170				
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400	94.8	21-167				

LCS (3080613-BS1)

Prepared: 08/06/13 Analyzed: 08/07/13

Naphthalene	ND	0.010	mg/kg			66-138				
Benzene	0.0939	0.0020	"	0.100	93.9	58-130				
Toluene	0.0999	0.0050	"	0.100	99.9	61-134				
Ethylbenzene	0.105	0.0050	"	0.100	105	74-139				
m,p-Xylene	0.204	0.010	"	0.200	102	73-137				
o-Xylene	0.106	0.0050	"	0.100	106	73-141				
Surrogate: 1,2-Dichloroethane-d4	0.0413		"	0.0397	104	23-173				
Surrogate: Toluene-d8	0.0399		"	0.0400	99.7	20-170				
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400	97.8	21-167				

LCS Dup (3080613-BSD1)

Prepared: 08/06/13 Analyzed: 08/07/13

Naphthalene	ND	0.010	mg/kg			66-138			12	
Benzene	0.0850	0.0020	"	0.100	85.0	58-130	9.92		13	
Toluene	0.0910	0.0050	"	0.100	91.0	61-134	9.33		16	
Ethylbenzene	0.0952	0.0050	"	0.100	95.2	74-139	9.42		12	
m,p-Xylene	0.187	0.010	"	0.200	93.3	73-137	9.01		14	
o-Xylene	0.0961	0.0050	"	0.100	96.1	73-141	9.83		12	
Surrogate: 1,2-Dichloroethane-d4	0.0417		"	0.0397	105	23-173				
Surrogate: Toluene-d8	0.0396		"	0.0400	98.9	20-170				
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400	94.7	21-167				

Summit Scientific

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

Project: NEP - Wahlert AC 23-69-HN

Project Number: [none]
Project Manager: Rob Rebel

Reported:
08/07/13 18:36

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 3080613 - EPA 5030 Soil MS

Matrix Spike (3080613-MS1)				Source: R308020-01		Prepared: 08/06/13		Analyzed: 08/07/13	
Naphthalene	ND	0.010	mg/kg		ND			10-158	
Benzene	0.0701	0.0020	"	0.100	ND	70.1	30-131		
Toluene	0.0568	0.0050	"	0.100	ND	56.8	30-134		
Ethylbenzene	0.0623	0.0050	"	0.100	ND	62.3	22-153		
m,p-Xylene	0.110	0.010	"	0.200	ND	54.9	10-159		
o-Xylene	0.0724	0.0050	"	0.100	ND	72.4	31-151		
Surrogate: 1,2-Dichloroethane-d4	0.0394		"	0.0397		99.3	23-173		
Surrogate: Toluene-d8	0.0400		"	0.0400		100	20-170		
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400		94.0	21-167		

Matrix Spike Dup (3080613-MSD1)				Source: R308020-01		Prepared: 08/06/13		Analyzed: 08/07/13	
Naphthalene	ND	0.010	mg/kg		ND		10-158		42
Benzene	0.0686	0.0020	"	0.100	ND	68.6	30-131	2.21	34
Toluene	0.0544	0.0050	"	0.100	ND	54.4	30-134	4.15	30
Ethylbenzene	0.0596	0.0050	"	0.100	ND	59.6	22-153	4.43	24
m,p-Xylene	0.105	0.010	"	0.200	ND	52.6	10-159	4.35	68
o-Xylene	0.0711	0.0050	"	0.100	ND	71.1	31-151	1.71	38
Surrogate: 1,2-Dichloroethane-d4	0.0420		"	0.0397		106	23-173		
Surrogate: Toluene-d8	0.0399		"	0.0400		99.7	20-170		
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		96.9	21-167		

Summit Scientific

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

Project: NEP - Wahlert AC 23-69-HN

Project Number: [none]
Project Manager: Rob Rebel

Reported:
08/07/13 18:36

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 3080701 - General Preparation

Blank (3080701-BLK1)

Prepared & Analyzed: 08/07/13

Calcium	ND	10.0	mg/kg wet
Magnesium	ND	5.00	"
Sodium	ND	5.00	"

LCS (3080701-BS1)

Prepared & Analyzed: 08/07/13

Calcium	374	10.0	mg/kg wet	400	93.5	80-120
Magnesium	201	5.00	"	200	100	80-120
Sodium	518	5.00	"	500	104	80-120

LCS Dup (3080701-BSD1)

Prepared & Analyzed: 08/07/13

Calcium	388	10.0	mg/kg wet	400	97.1	80-120	3.73	20
Magnesium	206	5.00	"	200	103	80-120	2.49	20
Sodium	529	5.00	"	500	106	80-120	2.12	20

Matrix Spike (3080701-MS1)

Source: R308038-01

Prepared & Analyzed: 08/07/13

Calcium	1100	10.6	mg/kg dry	419	656	106	75-125
Magnesium	307	5.31	"	210	95.8	101	75-125
Sodium	607	5.31	"	524	47.4	107	75-125

Matrix Spike Dup (3080701-MSD1)

Source: R308038-01

Prepared & Analyzed: 08/07/13

Calcium	1290	10.6	mg/kg dry	420	656	151	75-125	15.8	25	QM-07
Magnesium	388	5.31	"	210	95.8	139	75-125	23.3	25	QM-07
Sodium	761	5.31	"	525	47.4	136	75-125	22.4	25	QM-07

Summit Scientific

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

Project: NEP - Wahlert AC 23-69-HN

Project Number: [none]
Project Manager: Rob Rebel

Reported:
08/07/13 18:36

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 3080618 - General Preparation

Duplicate (3080618-DUP1) **Source: R308038-01** Prepared & Analyzed: 08/06/13

Specific Conductance (EC)	0.749	0.00100	mmhos/cm	0.732	2.36	20
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Batch 3080619 - General Preparation

Duplicate (3080619-DUP1) **Source: R308038-01** Prepared & Analyzed: 08/06/13

pH	6.96	0.100	pH Units	7.14	2.55	20
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Batch 3080708 - General Preparation

Duplicate (3080708-DUP1) **Source: R307313-01** Prepared & Analyzed: 08/07/13

% Solids	95.0		%	85.8	10.2	20
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Summit Scientific

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

Project: NEP - Wahlert AC 23-69-HN

Project Number: [none]
Project Manager: Rob Rebel

Reported:
08/07/13 18:36

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

Summit Scientific

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