



01761264

FORM  
27  
Rev 6/99State of Colorado  
Oil and Gas Conservation Commission

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



FOR OGCC USE ONLY

RECEIVED

JUN 23 2011

COGCC

OGCC Employee:

☐ Spill ☐ Complaint  
☐ Inspection ☐ NOAV

Tracking No: 2213370

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

## CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☒ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☐ Site/Facility Closure ☒ Other (describe): NFA

## GENERAL INFORMATION

OGCC Operator Number: 8960		Contact Name and Telephone	
Name of Operator: Bonanza Creek Energy, Inc.		Name: Tom Peterson	
Address: 410 17th Street, Suite 1500		No: 720-440-6113	
City: Denver State: CO Zip: 80202		Fax: 720-279-2331	
API/Facility No: 05-123-20378		County: Weld	
Facility Name: Wetco Farms 23-4, Wetco Farms 24-4, Park 34-4		Facility Number:	
Well Name: Wetco Farms 23-4		Well Number:	
Location (QtrQtr, Sec, Twp, Rng, Meridian): NESW 4-T4N-R63W		Latitude: Longitude:	

## TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): Oil	
Site Conditions: Is location within a sensitive area (according to Rule 901e)? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If yes, attach evaluation. Groundwater < 20 ft.	
Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Agriculture and rangeland	
Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Fine to medium grained sand	
Potential receptors (water wells within 1/4 mi, surface waters, etc.): Surface water (canal) located approximately 600' north of the site, water well located approximately 600' west of the site.	
Description of Impact (if previously provided, refer to that form or document):	
Impacted Media (check):	Extent of Impact:
<input checked="" type="checkbox"/> Soils	26' N-S x 65' E-W x 1.5-2.5' bgs
<input type="checkbox"/> Vegetation	
<input type="checkbox"/> Groundwater	Not encountered
<input type="checkbox"/> Surface water	
How Determined:	
Soil samples for laboratory analysis	

## REMEDIALATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):
A corrosion hole in the bottom of the oil tank caused approximately 93 bbls of oil to be released within the tank battery containment berm. A vacuum truck was used to recover approximately 71 bbls of oil. The petroleum hydrocarbon impacted soil was excavated.
Describe how source is to be removed:
Soil samples were collected from the excavation for field screening and laboratory analysis. Laboratory results for the confirmation soil samples indicate that TPH and BTEX concentrations are below COGCC allowable levels at the extent of the excavation. Approximately 400 cubic yards of petroleum hydrocarbon impacted soil were removed from the excavation. Groundwater was not encountered in the excavation.
Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:
The impacted soil will be transported to Waste Management's Buffalo Ridge landfill in Keenesburg, Colorado for disposal.

Submit Page 2 with Page 1.

State of Colorado  
Oil and Gas Conservation Commission

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



REMEDIAL WORKPLAN (CONT.)

OGCC Employee:

Axelsson

Tracking Number: 2213370 / 01761264  
Name of Operator: Bonanza Creek Energy, Inc.  
OGCC Operator No: 8960  
Received Date: 6/23/11  
Well Name & No: Wetco Farms 23-4  
Facility Name & No.: Wetco Farms 23-4,  
Wetco Farms 24-4, Park 34-4

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):  
Groundwater was not encountered in the excavation.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.  
The site was restored to its pre-release grade. Bonanza Creek Energy's production facility remains at the site.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.  
Is further site investigation required? ☐ Y ☒ N If yes, describe:

No further investigation is required at this site. Groundwater was not encountered in the excavation and soil sample laboratory results confirm that TPH and BTEX concentrations are below COGCC allowable levels at the extent of the excavation.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

The impacted soil will be transported to Waste Management's Buffalo Ridge landfill in Keenesburg, Colorado for disposal.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: <u>4/18/11</u>	Date Site Investigation Completed: <u>5/24/11</u>	Remediation Plan Submitted: _____
Remediation Start Date: <u>4/18/11</u>	Anticipated Completion Date: <u>6/30/11</u>	Actual Completion Date: _____

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Tom Peterson

Signed: Tom Peterson

Title: Engineering Technician

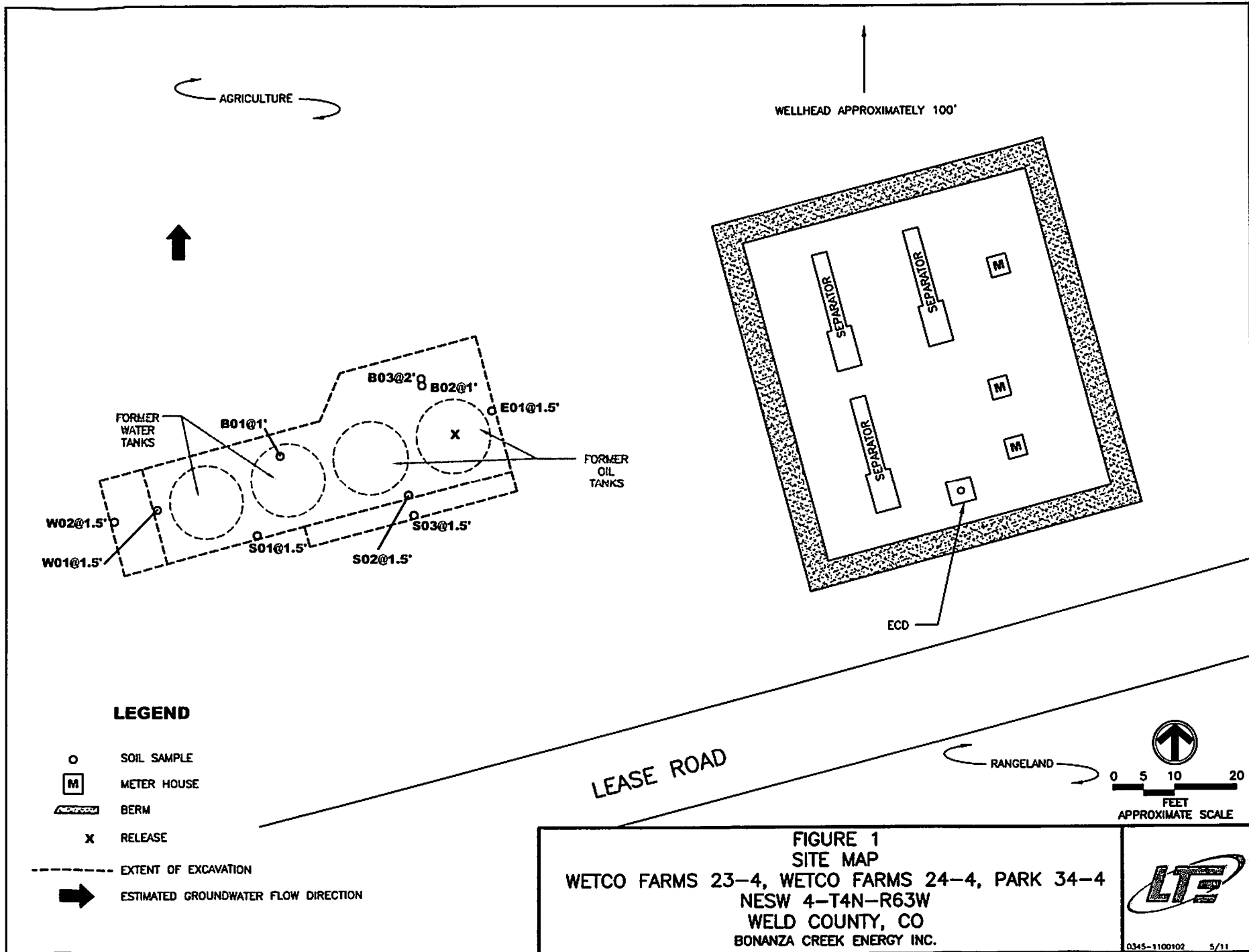
Date: 6/17/11

OGCC Approved: [Signature]

Title: EPS

Date: 6/23/11





**TABLE 1**  
**SOIL SAMPLE ANALYTICAL DATA**  
**WETCO FARMS 23-4, WETCO FARMS 24-4, PARK 34-4**  
**Bonanza Creek Energy, Inc.**

SAMPLE ID	SAMPLE DATE	DEPTH (feet bgs)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	XYLENES (Total) (mg/kg)	TPH-GRO (mg/kg)	TEPH DRO+ORO (mg/kg)
B01@1'	5/10/2011	1	<0.005	<0.005	<0.005	<0.005	<0.5	<50
B02@1'	5/10/2011	1	0.13	16.0	8.3	100.0	3,100	8,040
S01@1.5'	5/10/2011	1.5	<0.005	<0.005	<0.005	<0.005	<0.5	<50
S02@1.5'	5/10/2011	1.5	<0.005	0.37	0.8	48.0	1,200	1,554
W01@1.5'	5/10/2011	1.5	<0.005	<0.005	<0.005	<0.005	25.0	950
E01@1.5'	5/10/2011	1.5	<0.005	<0.005	<0.005	<0.005	<0.5	<50
B03@2'	5/24/2011	2	<0.005	<0.005	<0.005	<0.005	<0.5	<50
S03@1.5'	5/24/2011	1.5	<0.005	<0.005	<0.005	0.0075	6.8	<50
W02@1.5'	5/24/2011	1.5	<0.005	<0.005	<0.005	<0.005	<0.5	<50
COGCC Allowable Level			0.17	85	100	175	500	

< - less than stated laboratory reporting limit

mg/kg - milligrams per kilogram

bgs - below ground surface

TEPH - Total Extractable Petroleum Hydrocarbons

COGCC - Colorado Oil and Gas Conservation Commission

Results noted in bold exceed COGCC allowable levels

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

ORO - Oil Range Organics



# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

May 17, 2011

John Cocroft

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: BC - Wetco Farms 23 & 24-4/Park 24-4

Enclosed are the results of analyses for samples received by Summit Scientific on 05/10/11 16:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'PS' followed by a long, sweeping horizontal line.

Paul Shrewsbury For Ben Shrewsbury  
President / Laboratory Director

S<sub>2</sub>

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

Project: BC - Wetco Farms 23 & 24-4/Park 24-4  
Project Number: 0345-11001  
Project Manager: John Cocroft

Reported:  
05/17/11 12:40

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@1'	R105058-01	Soil	05/10/11 12:16	05/10/11 16:55
B02@1'	R105058-02	Soil	05/10/11 12:18	05/10/11 16:55
S02@1.5'	R105058-03	Soil	05/10/11 12:15	05/10/11 16:55
S01@1.5'	R105058-04	Soil	05/10/11 12:13	05/10/11 16:55
W01@1.5'	R105058-05	Soil	05/10/11 12:20	05/10/11 16:55
E01@1.5'	R105058-06	Soil	05/10/11 12:22	05/10/11 16:55

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*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.*

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

Project: BC - Wetco Farms 23 & 24-4/Park 24-4

Project Number: 0345-11001  
Project Manager: John Cocroft

Reported:  
05/17/11 12:40

R105058

Summit Scientific

741 Corporate Circle Suite 1 • Golden, Colorado 80401  
303-277-9310 • 303-277-9331 Fax

Page 1 of 1

Client: LT Environmental, Inc.  
Address: 4600 West 60th Avenue  
City/State/Zip: Arvada, CO 80003  
Phone: (303) 433-9788  
Sample Name: Park 24-4  
Project Manager: John Cocroft  
E-Mail: jcocroft@ltenv.com  
Fax: (303) 433-1432  
Project Name: Wetco Farms 23 & 24-4 / Park 24-4  
Project Number: 0345-11001  
Sample Name: Park 24-4

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative					Matrix					Analyze For:					Special Instructions	Notes	
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	PH	BTEX	Other (Specify)	PH	BTEX	Other (Specify)				
R0101	5/10/11	12:16	1																		
R0201	5/10/11	12:19	1																		
S0201	5/10/11	12:15	1																		
S0101	5/10/11	12:13	1																		
W0101	5/10/11	12:20	1																		
E0101	5/10/11	12:22	1																		

Relinquished by: <u>[Signature]</u>	Date/Time: <u>5-10-11 16:55</u>	Received by: <u>[Signature]</u>	Date/Time: <u>5-10-11 16:55</u>	Turn Around Time (Check): <input checked="" type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard
Relinquished by: <u>[Signature]</u>	Date/Time: <u>5-10-11 16:55</u>	Received by: <u>[Signature]</u>	Date/Time: <u>5-10-11 16:55</u>	Sample Integrity: Temperature Upon Receipt: <u>5.2</u> Insert: (Yes) <input checked="" type="checkbox"/> (No) <input type="checkbox"/>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>5-10-11 16:55</u>	Received in Lab by: <u>[Signature]</u>	Date/Time: <u>5-10-11 16:55</u>	

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

Project: BC - Wetco Farms 23 & 24-4/Park 24-4  
Project Number: 0345-11001  
Project Manager: John Cocroft

Reported:  
05/17/11 12:40

B01@1'  
R105058-01 (Soil)

Summit Scientific

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 05/10/11 12:16

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1051102	05/11/11	05/12/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 05/10/11 12:16

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		105 %	88.8-124		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 05/10/11 12:16

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1051101	05/11/11	05/11/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 05/10/11 12:16

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		104 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.0 %	78.4-125		"	"	"	"	

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

Project: BC - Wetco Farms 23 & 24-4/Park 24-4  
Project Number: 0345-11001  
Project Manager: John Cocroft

Reported:  
05/17/11 12:40

**B02@1'**  
**R105058-02 (Soil)**

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 05/10/11 12:18

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	7300	50	mg/kg	1	1051102	05/11/11	05/12/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	740	50	"	"	"	"	"	"	

Date Sampled: 05/10/11 12:18

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.0 %	88.8-124		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 05/10/11 12:18

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.13	0.0050	mg/kg	1	1051101	05/11/11	05/12/11	EPA 8260B	
Toluene	16	0.50	"	100	"	"	05/13/11	"	
Ethylbenzene	8.3	0.050	"	10	"	"	05/12/11	"	
Xylenes (total)	100	0.50	"	100	"	"	05/13/11	"	
Gasoline Range Hydrocarbons	3100	50	"	"	"	"	05/12/11	"	

Date Sampled: 05/10/11 12:18

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.6 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		109 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		121 %	78.4-125		"	"	"	"	

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

Project: BC - Wetco Farms 23 & 24-4/Park 24-4  
Project Number: 0345-11001  
Project Manager: John Cocroft

Reported:  
05/17/11 12:40

S02@1.5'  
R105058-03 (Soil)

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 05/10/11 12:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	1500	50	mg/kg	1	1051102	05/11/11	05/12/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	54	50	"	"	"	"	"	"	

Date Sampled: 05/10/11 12:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		109 %	88.8-124		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 05/10/11 12:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1051101	05/11/11	05/12/11	EPA 8260B	
Toluene	0.37	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.79	0.0050	"	"	"	"	"	"	
Xylenes (total)	48	0.50	"	100	"	"	05/13/11	"	
Gasoline Range Hydrocarbons	1200	50	"	"	"	"	05/12/11	"	

Date Sampled: 05/10/11 12:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.4 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		101 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	78.4-125		"	"	"	"	

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

Project: BC - Wetco Farms 23 & 24-4/Park 24-4  
Project Number: 0345-11001  
Project Manager: John Cocroft

Reported:  
05/17/11 12:40

S01@1.5'  
R105058-04 (Soil)

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 05/10/11 12:13

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1051102	05/11/11	05/12/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 05/10/11 12:13

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		105 %	88.8-124		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 05/10/11 12:13

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1051101	05/11/11	05/11/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 05/10/11 12:13

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.9 %	78.4-125		"	"	"	"	

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

Project: BC - Wetco Farms 23 & 24-4/Park 24-4  
Project Number: 0345-11001  
Project Manager: John Cocroft

Reported:  
05/17/11 12:40

W01@1.5'  
R105058-05 (Soil)

Summit Scientific

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 05/10/11 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	840	50	mg/kg	1	1051102	05/11/11	05/12/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	110	50	"	"	"	"	"	"	

Date Sampled: 05/10/11 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		110 %	88.8-124		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 05/10/11 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1051101	05/11/11	05/12/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	25	0.50	"	"	"	"	"	"	

Date Sampled: 05/10/11 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		97.7 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		119 %	78.4-125		"	"	"	"	

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

Project: BC - Wetco Farms 23 & 24-4/Park 24-4  
Project Number: 0345-11001  
Project Manager: John Cocroft

Reported:  
05/17/11 12:40

E01@1.5'  
R105058-06 (Soil)

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 05/10/11 12:22

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1051102	05/11/11	05/12/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 05/10/11 12:22

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		105 %	88.8-124		"	"	"	"	

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 05/10/11 12:22

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1051101	05/11/11	05/11/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 05/10/11 12:22

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		98.2 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	78.4-125		"	"	"	"	

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

Project: BC - Wetco Farms 23 & 24-4/Park 24-4  
Project Number: 0345-11001  
Project Manager: John Cocroft

Reported:  
05/17/11 12:40

**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 1051102 - EPA 3550A**

**Blank (1051102-BLK1)**

Prepared & Analyzed: 05/11/11

C10-C28 (TEPH-DRO) ND 50 mg/kg  
C28-C36 (TEPH-ORO) ND 50 "

Surrogate: o-Terphenyl 13.2 " 12.5 106 88.8-124

**LCS (1051102-BS1)**

Prepared & Analyzed: 05/11/11

C10-C28 (TEPH-DRO) 513 50 mg/kg 501 102 85-129 11.8

**LCS Dup (1051102-BSD1)**

Prepared & Analyzed: 05/11/11

C10-C28 (TEPH-DRO) 531 50 mg/kg 501 106 85-129 3.53 11.8

**Matrix Spike (1051102-MS1)**

Source: R105052-04

Prepared & Analyzed: 05/11/11

C10-C28 (TEPH-DRO) 486 50 mg/kg 501 ND 97.0 77.3-134 8.39

**Matrix Spike Dup (1051102-MSD1)**

Source: R105052-04

Prepared & Analyzed: 05/11/11

C10-C28 (TEPH-DRO) 522 50 mg/kg 501 ND 104 77.3-134 7.19 8.39

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S<sub>2</sub>

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

Project: BC - Wetco Farms 23 & 24-4/Park 24-4  
Project Number: 0345-11001  
Project Manager: John Cocroft

Reported:  
05/17/11 12:40

**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 1051101 - EPA 5030 Soil MS**

**Blank (1051101-BLK1)**

Prepared & Analyzed: 05/11/11

Benzene	ND	0.0050	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	0.0608		"	0.0400		152	67.4-143			
Surrogate: Toluene-d8	0.0411		"	0.0400		103	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0423		"	0.0400		106	78.4-125			

**LCS (1051101-BS1)**

Prepared & Analyzed: 05/11/11

Benzene	0.104	0.0050	mg/kg	0.100		104	61-139		11.1	
Toluene	0.103	0.0050	"	0.100		103	64-132		10.9	
Ethylbenzene	0.0955	0.0050	"	0.100		95.5	68.7-135		20	
m,p-Xylene	0.177	0.010	"	0.200		88.3	70.4-129		20	
o-Xylene	0.0885	0.0050	"	0.100		88.5	66.9-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0621		"	0.0400		155	67.4-143			
Surrogate: Toluene-d8	0.0423		"	0.0400		106	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0433		"	0.0400		108	78.4-125			

**LCS Dup (1051101-BSD1)**

Prepared & Analyzed: 05/11/11

Benzene	0.103	0.0050	mg/kg	0.100		103	61-139	0.406	11.1	
Toluene	0.100	0.0050	"	0.100		100	64-132	2.36	10.9	
Ethylbenzene	0.0958	0.0050	"	0.100		95.8	68.7-135	0.376	20	
m,p-Xylene	0.175	0.010	"	0.200		87.7	70.4-129	0.665	20	
o-Xylene	0.0875	0.0050	"	0.100		87.5	66.9-126	1.12	20	
Surrogate: 1,2-Dichloroethane-d4	0.0610		"	0.0400		152	67.4-143			
Surrogate: Toluene-d8	0.0414		"	0.0400		104	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	78.4-125			

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

Project: BC - Wetco Farms 23 & 24-4/Park 24-4  
Project Number: 0345-11001  
Project Manager: John Cocroft

Reported:  
05/17/11 12:40

**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 1051101 - EPA 5030 Soil MS**

Matrix Spike (1051101-MSI)			Source: R105052-05		Prepared & Analyzed: 05/11/11					
Benzene	0.104	0.0050	mg/kg	0.100	ND	104	42.9-137		17.9	
Toluene	0.102	0.0050	"	0.100	ND	102	42.6-130		11.9	
Ethylbenzene	0.109	0.0050	"	0.100	ND	109	39-133		20	
m,p-Xylene	0.198	0.010	"	0.200	ND	98.9	34.7-134		20	
o-Xylene	0.0950	0.0050	"	0.100	ND	95.0	41.3-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0417		"	0.0400		104	67.4-143			
Surrogate: Toluene-d8	0.0411		"	0.0400		103	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.4	78.4-125			

Matrix Spike Dup (1051101-MSD1)			Source: R105052-05		Prepared & Analyzed: 05/11/11					
Benzene	0.103	0.0050	mg/kg	0.100	ND	103	42.9-137	0.492	17.9	
Toluene	0.102	0.0050	"	0.100	ND	102	42.6-130	0.295	11.9	
Ethylbenzene	0.108	0.0050	"	0.100	ND	108	39-133	0.804	20	
m,p-Xylene	0.196	0.010	"	0.200	ND	97.8	34.7-134	1.10	20	
o-Xylene	0.0935	0.0050	"	0.100	ND	93.5	41.3-126	1.62	20	
Surrogate: 1,2-Dichloroethane-d4	0.0430		"	0.0400		108	67.4-143			
Surrogate: Toluene-d8	0.0399		"	0.0400		99.8	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0378		"	0.0400		94.4	78.4-125			

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

Project: BC - Wetco Farms 23 & 24-4/Park 24-4  
Project Number: 0345-11001  
Project Manager: John Cocroft

Reported:  
05/17/11 12:40

### 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

Summit Scientific



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# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

May 25, 2011

John Cocroft

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: BC - Wetco Farms 23, 24-4/Park 34-4

Enclosed are the results of analyses for samples received by Summit Scientific on 05/24/11 16:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'PS' followed by a long, sweeping horizontal line.

Paul Shrewsbury For Ben Shrewsbury  
President / Laboratory Director

S<sub>2</sub>

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

Project: BC - Wetco Farms 23, 24-4/Park 34-4  
Project Number: 0345-11001  
Project Manager: John Cocroft

Reported:  
05/25/11 08:06

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B03@2'	R105114-01	Soil	05/24/11 10:45	05/24/11 16:50
S02@1.5'	R105114-02	Soil	05/24/11 10:42	05/24/11 16:50
W02@1.5'	R105114-03	Soil	05/24/11 10:40	05/24/11 16:50

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

Project: BC - Wetco Farms 23, 24-4/Park 34-4

Project Number: 0345-11001  
Project Manager: John Cocroft

**Reported:**  
**05/25/11 08:06**

R105114

Summit Scientific

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

Page 1 of 1

**Client:** LT Environmental, Inc.

**Address:** 4600 West 60th Avenue

City/State/Zip: Arizada CO 80003

City/State/Zip: ALABAMA 36803  
Date: 12/11/2011 07:58

Phone: (303) 433-9788

Sampler Name: PL 2119, Hb. 101.1.

Project Manager: J. Croft

F-Mail: jrocl@f+c) / yamv.cay

Resident Name: Benjamin, Crest

Project Name: Donkeyza Creek

Project Number: 0345 11001

[illegible]

**www.s2scientific.com**

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*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.*



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

Project: BC - Wetco Farms 23, 24-4/Park 34-4  
Project Number: 0345-11001  
Project Manager: John Cocroft

Reported:  
05/25/11 08:06

B03@2'  
R105114-01 (Soil)

Summit Scientific

### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 05/24/11 10:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1052406	05/24/11	05/24/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 05/24/11 10:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		104 %	88.8-124		"	"	"	"	

### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 05/24/11 10:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1052405	05/24/11	05/24/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 05/24/11 10:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		101 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	78.4-125		"	"	"	"	

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.



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

Project: BC - Wetco Farms 23, 24-4/Park 34-4  
Project Number: 0345-11001  
Project Manager: John Cocroft

Reported:  
05/25/11 08:06

S02@1.5'  
R105114-02 (Soil)

Summit Scientific

### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 05/24/11 10:42

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1052406	05/24/11	05/24/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 05/24/11 10:42

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		105 %	88.8-124		"	"	"	"	

### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 05/24/11 10:42

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1052405	05/24/11	05/24/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.0075	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	6.8	0.50	"	"	"	"	"	"	

Date Sampled: 05/24/11 10:42

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		105 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %	78.4-125		"	"	"	"	

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

Project: BC - Wetco Farms 23, 24-4/Park 34-4  
Project Number: 0345-11001  
Project Manager: John Cocroft

Reported:  
05/25/11 08:06

W02@1.5'  
R105114-03 (Soil)

Summit Scientific

### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 05/24/11 10:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1052406	05/24/11	05/25/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 05/24/11 10:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		103 %	88.8-124		"	"	"	"	

### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 05/24/11 10:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1052405	05/24/11	05/24/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 05/24/11 10:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		105 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	78.4-125		"	"	"	"	

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

Project: BC - Wetco Farms 23, 24-4/Park 34-4  
Project Number: 0345-11001  
Project Manager: John Cocroft

Reported:  
05/25/11 08:06

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch 1052406 - EPA 3550A**

<b>Blank (1052406-BLK1)</b>				Prepared: 05/24/11 Analyzed: 05/25/11						
C10-C28 (TEPH-DRO)	ND	50	mg/kg							
C28-C36 (TEPH-ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.6		"	12.5	101	88.8-124				
<b>LCS (1052406-BS1)</b>				Prepared: 05/24/11 Analyzed: 05/25/11						
C10-C28 (TEPH-DRO)	562	50	mg/kg	501	112	85-129			11.8	
<b>LCS Dup (1052406-BSD1)</b>				Prepared: 05/24/11 Analyzed: 05/25/11						
C10-C28 (TEPH-DRO)	565	50	mg/kg	501	113	85-129		0.435	11.8	
<b>Matrix Spike (1052406-MS1)</b>				Source: R105114-01		Prepared: 05/24/11 Analyzed: 05/25/11				
C10-C28 (TEPH-DRO)	564	50	mg/kg	501	17.3	109	77.3-134		8.39	
<b>Matrix Spike Dup (1052406-MSD1)</b>				Source: R105114-01		Prepared: 05/24/11 Analyzed: 05/25/11				
C10-C28 (TEPH-DRO)	568	50	mg/kg	501	17.3	110	77.3-134	0.842	8.39	

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

Project: BC - Wetco Farms 23, 24-4/Park 34-4  
Project Number: 0345-11001  
Project Manager: John Cocroft

Reported:  
05/25/11 08:06

**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 1052405 - EPA 5030 Soil MS**

<b>Blank (1052405-BLK1)</b>				Prepared: 05/24/11 Analyzed: 05/25/11						
Benzene	ND	0.0050	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	0.0442		"	0.0400		110	67.4-143			
Surrogate: Toluene-d8	0.0420		"	0.0400		105	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0449		"	0.0400		112	78.4-125			

<b>LCS (1052405-BS1)</b>				Prepared: 05/24/11 Analyzed: 05/25/11						
Benzene	0.107	0.0050	mg/kg	0.100		107	61-139		11.1	
Toluene	0.107	0.0050	"	0.100		107	64-132		10.9	
Ethylbenzene	0.0930	0.0050	"	0.100		93.0	68.7-135		20	
m,p-Xylene	0.152	0.010	"	0.200		76.0	70.4-129		20	
o-Xylene	0.0860	0.0050	"	0.100		86.0	66.9-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0454		"	0.0400		113	67.4-143			
Surrogate: Toluene-d8	0.0434		"	0.0400		108	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0436		"	0.0400		109	78.4-125			

<b>LCS Dup (1052405-BS1)</b>				Prepared: 05/24/11 Analyzed: 05/25/11						
Benzene	0.111	0.0050	mg/kg	0.100		111	61-139	3.25	11.1	
Toluene	0.110	0.0050	"	0.100		110	64-132	3.49	10.9	
Ethylbenzene	0.0960	0.0050	"	0.100		96.0	68.7-135	3.24	20	
m,p-Xylene	0.158	0.010	"	0.200		79.0	70.4-129	3.89	20	
o-Xylene	0.0880	0.0050	"	0.100		88.0	66.9-126	2.21	20	
Surrogate: 1,2-Dichloroethane-d4	0.0473		"	0.0400		118	67.4-143			
Surrogate: Toluene-d8	0.0428		"	0.0400		107	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0427		"	0.0400		107	78.4-125			

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

Project: BC - Wetco Farms 23, 24-4/Park 34-4  
Project Number: 0345-11001  
Project Manager: John Cocroft

Reported:  
05/25/11 08:06

**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 1052405 - EPA 5030 Soil MS**

Matrix Spike (1052405-MS1)		Source: R105114-01		Prepared: 05/24/11		Analyzed: 05/25/11			
Benzene	0.110	0.0050	mg/kg	0.100	ND	110	42.9-137		17.9
Toluene	0.109	0.0050	"	0.100	ND	109	42.6-130		11.9
Ethylbenzene	0.0939	0.0050	"	0.100	ND	93.9	39-133		20
m,p-Xylene	0.153	0.010	"	0.200	ND	76.7	34.7-134		20
o-Xylene	0.0873	0.0050	"	0.100	ND	87.3	41.3-126		20
Surrogate: 1,2-Dichloroethane-d4	0.0465		"	0.0400		116	67.4-143		
Surrogate: Toluene-d8	0.0426		"	0.0400		107	77.3-114		
Surrogate: 4-Bromofluorobenzene	0.0433		"	0.0400		108	78.4-125		

Matrix Spike Dup (1052405-MSD1)		Source: R105114-01		Prepared: 05/24/11		Analyzed: 05/25/11			
Benzene	0.110	0.0050	mg/kg	0.100	ND	110	42.9-137	0.0820	17.9
Toluene	0.109	0.0050	"	0.100	ND	109	42.6-130	0.166	11.9
Ethylbenzene	0.0944	0.0050	"	0.100	ND	94.4	39-133	0.478	20
m,p-Xylene	0.154	0.010	"	0.200	ND	77.2	34.7-134	0.682	20
o-Xylene	0.0876	0.0050	"	0.100	ND	87.6	41.3-126	0.343	20
Surrogate: 1,2-Dichloroethane-d4	0.0460		"	0.0400		115	67.4-143		
Surrogate: Toluene-d8	0.0424		"	0.0400		106	77.3-114		
Surrogate: 4-Bromofluorobenzene	0.0421		"	0.0400		105	78.4-125		

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.*



S<sub>2</sub>

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

Project: BC - Wetco Farms 23, 24-4/Park 34-4

Project Number: 0345-11001  
Project Manager: John Cocroft

Reported:  
05/25/11 08:06

### 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

Summit Scientific



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