

State of Colorado
Oil and Gas Conservation Commission

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



FOR OGCC USE ONLY

RECEIVED
6/22/2011

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

Spill report taken by:

FACILITY ID:

OPERATOR INFORMATION

Name of Operator: <u>Petroleum Development Corporation</u>	OGCC Operator No: <u>69175</u>	Phone Numbers
Address: <u>1775 Sherman Street, Suite 3000</u>	No: <u>(303) 860-5800</u>	
City: <u>Denver</u>	State: <u>CO</u> Zip: <u>80203</u>	Fax: <u>(303) 860-5838</u>
Contact Person: <u>Randall Ferguson</u>		Email: <u>rferguson@petd.com</u>

DESCRIPTION OF SPILL OR RELEASE

Date of Incident: <u>4/11/2011</u>	Facility Name & No: <u>Wilson 11, 12, 21, 22-30</u>	County: <u>Weld</u>
Type of Facility (well, tank battery, flow line, pit): <u>Tank Battery</u>	QtrQtr: <u>C/NW</u>	Section: <u>30</u>
Well Name and Number: <u>Wilson 11-30</u>	Township: <u>7N</u>	Range: <u>63W</u>
API Number: <u>05-123-23876</u>	Meridian: <u>6th</u>	

Specify volume spilled and recovered (in bbls) for the following materials:

Oil spilled: Unk Oil recov'd: 0 Water spilled: Unk Water recov'd: 0 Other spilled: 0 Other recov'd: 0

Ground Water impacted? ☐ Yes ☒ No Surface Water impacted? ☐ Yes ☒ No

Contained within berm? ☐ Yes ☒ No Area and vertical extent of spill: 50' N-S x 25' E-W x 15' depth

Current land use: Oil and Gas Production Facility/Agriculture Weather conditions: Mid 50s

Soil/geology description: Olney fine sandy loam, 0 to 6 percent slopes

IF LESS THAN A MILE, report distance IN FEET to nearest ... Surface water: 2,100' NE Wetlands: NA Buildings: 1,050' NW

Livestock: Unknown Water wells: 1,045' W Depth to shallowest ground water: Estimated 36'

Cause of spill (e.g. equipment failure, human error, etc.): Equipment failure Detailed description of the spill/release incident:

Note: Release occurred at a shared tank battery related to the Wilson 11-30 (API 05-123-23876), Wilson 12-30 (API 05-123-23900), Wilson 21-30 (API 05-123-23901), and Wilson 22-30 (API 05-123-23902). The shared tank battery is located in the C/NW of Sec. 30 as depicted on Figure 1. During equipment upgrades at the facility, PDC found a leak in the dumlplines that released an unknown quantity of condensate and produced water to the subsurface.

CORRECTIVE ACTION

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

PDC shut-in the wells producing to the battery. Once the dumlplines were removed, approximately 900 cubic yards of impacted soil above COGCC Table 910-1 Concentration Levels were excavated and transported offsite for disposal. Excavations were conducted adjacent to the tanks and the separators. Soil samples were collected from the extent of the excavations and were submitted for laboratory analysis of BTEX, TPH-GRO, and naphthalene by EPA Method 8260B and TPH-DRO by EPA Method 8015. Groundwater was not encountered during excavation activities. A topographic site location map and site map are provided as Figures 1 and 2.

Describe any emergency pits constructed: NA

How was the extent of contamination determined?

Laboratory analytical results for soil indicate BTEX, GRO, and DRO concentrations for the soil samples collected from the extent of the excavations are in compliance with COGCC Table 910-1 Concentration Levels. Soil analytical results are summarized in Table 1.

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

Approximately 900 cubic yards of impacted soil exceeding COGCC Table 910-1 Concentration Levels has been transported to the Waste Management Landfill in Ault, Colorado for disposal. Based on the laboratory results, all impacted material has been removed from the site and PDC is requesting a No Further Action determination.

Describe measures taken to prevent problem from reoccurring:

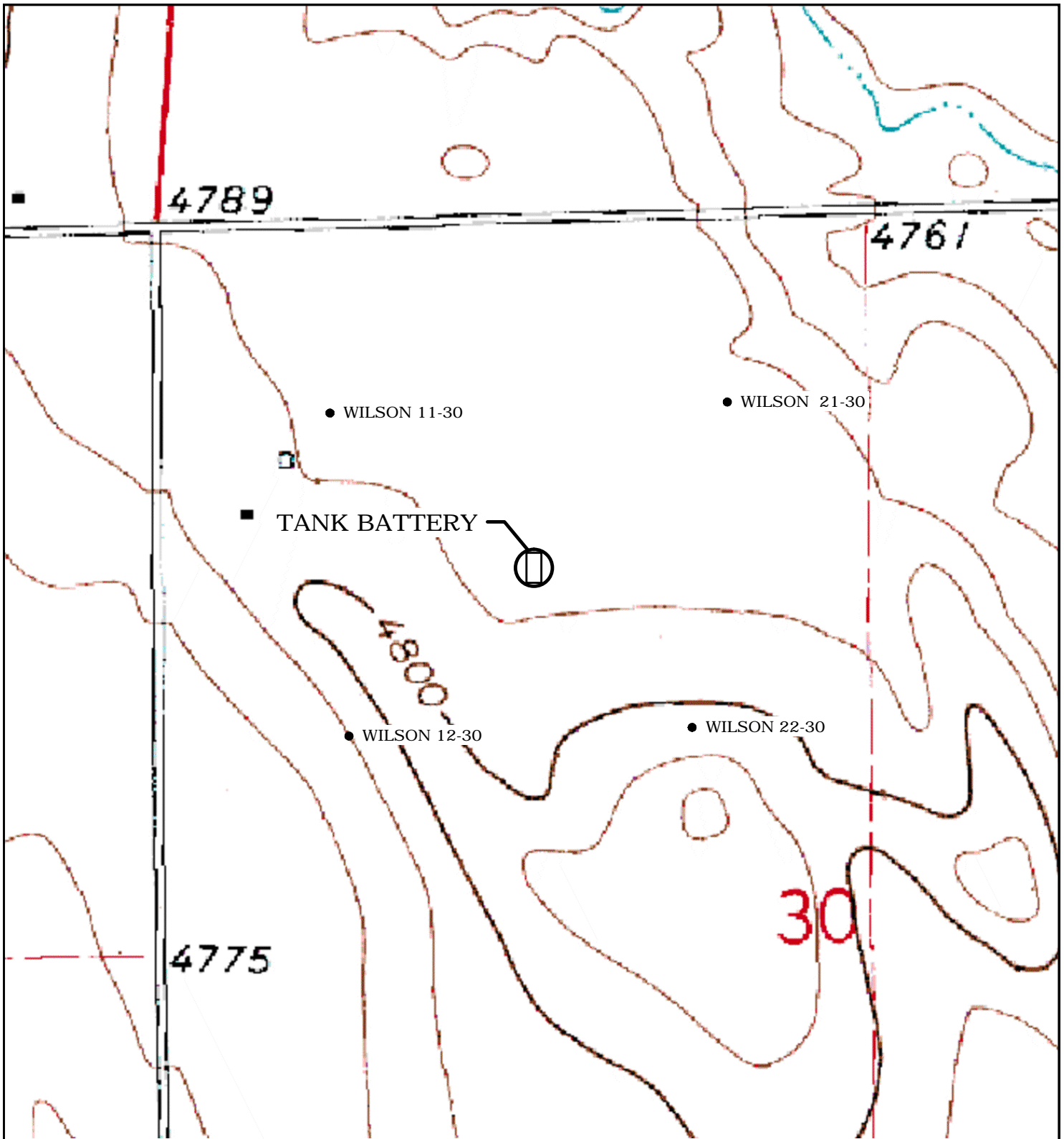
PDC replaced the leaking dumlplines and will continue to complete routine pressure testing of the dumlplines.

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: 2214611



LEGEND

-  TANK BATTERY
-  WELL LOCATION

SOURCE: TOPOZONE.COM
USGS 7.5' QUADRANGLE
(NAD27)

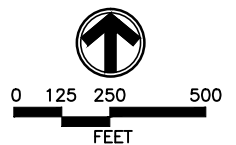


FIGURE 1
SITE LOCATION MAP
WILSON 11, 12, 21, 22-30
C/NW 30-T7N-R63W
WELD COUNTY, CO
PETROLEUM DEVELOPMENT CORPORATION



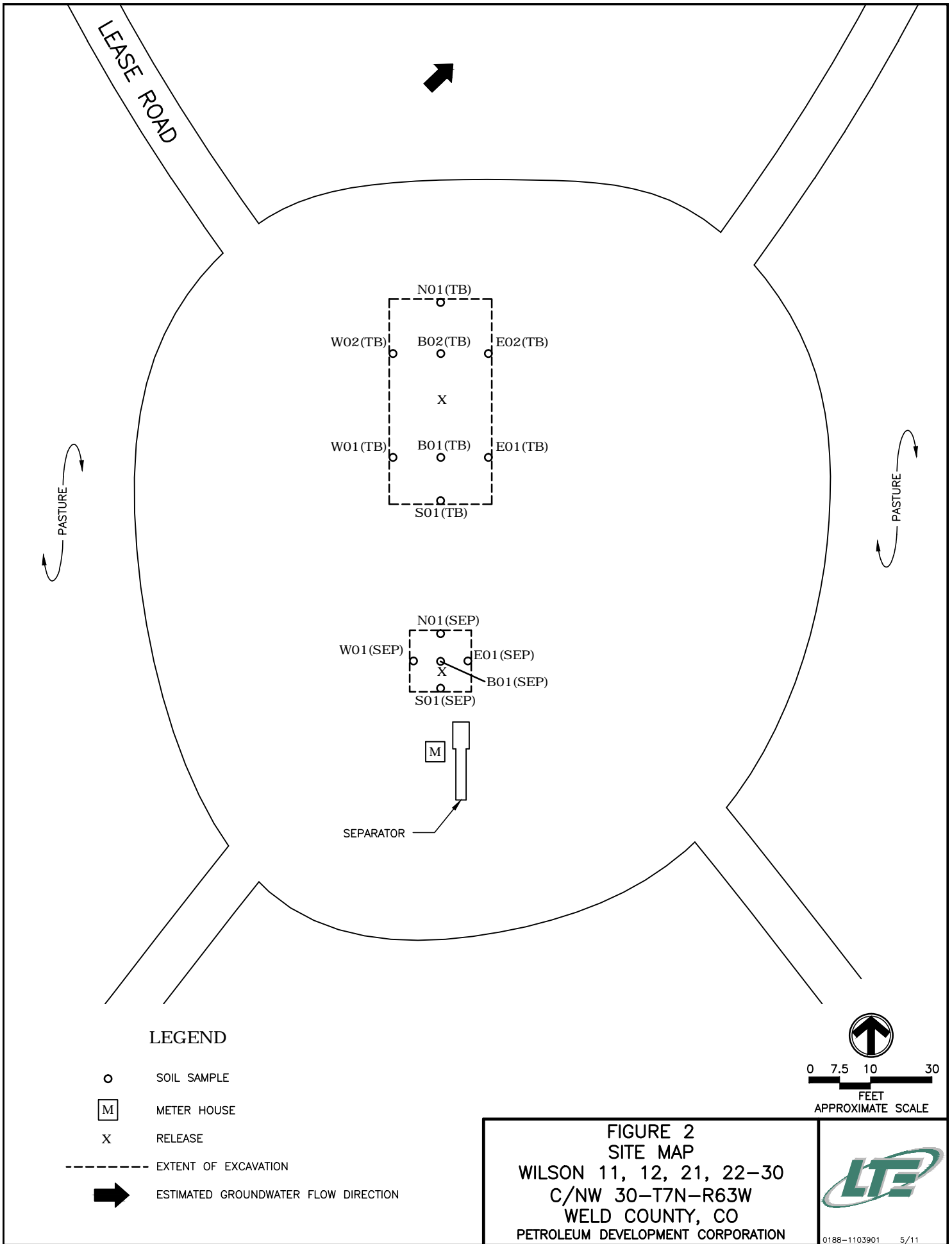


TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
WILSON 11, 12, 21, 22-30 (API No. 05-123-23876)
WELD COUNTY, COLORADO
PETROLEUM DEVELOPMENT CORPORATION

Sample ID	Depth (ft bgs)	Date Sampled	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Xylenes (mg/kg)	TPH (mg/kg)
B01 (SEP)	10	04/19/2011	<0.0050	<0.0050	<0.0050	<0.0050	53.4
B01 (TB)	15	04/19/2011	<0.0050	<0.0050	<0.0050	<0.0050	3.2
B02 (TB)	15	04/19/2011	<0.0050	<0.0050	<0.0050	<0.0050	<50.5
E01 (SEP)	8	04/19/2011	<0.0050	<0.0050	<0.0050	<0.0050	<50.5
E01 (TB)	13	04/19/2011	<0.0050	<0.0050	<0.0050	<0.0050	<50.5
E02 (TB)	13	04/19/2011	<0.0050	<0.0050	<0.0050	<0.0050	<50.5
N01 (SEP)	8	04/19/2011	<0.0050	<0.0050	<0.0050	<0.0050	<50.5
N01 (TB)	13	04/19/2011	<0.0050	<0.0050	<0.0050	<0.0050	<50.5
S01 (SEP)	8	04/19/2011	<0.0050	<0.0050	<0.0050	<0.0050	<50.5
S01 (TB)	13	04/19/2011	<0.0050	<0.0050	<0.0050	<0.0050	<50.5
W01 (SEP)	8	04/19/2011	<0.0050	<0.0050	<0.0050	<0.0050	142.1
W01 (TB)	13	04/19/2011	<0.0050	<0.0050	<0.0050	<0.0050	<50.5
W02 (TB)	13	04/19/2011	<0.0050	<0.0050	<0.0050	<0.0050	<50.5
Basic Standards for Soil			0.17	85	100	175	500

Notes:

< - less than stated laboratory reporting limit

NA - Not Analyzed

mg/kg - milligrams per kilogram

ft bgs - feet below ground surface

TPH - Total Petroleum Hydrocarbons (C6-C28)

API - American Petroleum Institute

Bold numbers indicate result equalled or exceeded standard.

Basic Standards for Soil are taken from 2 CCR 404-1, Table 910-1, effective April 1, 2009.



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 22, 2011

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Wilson 11,12,21,22-30

Enclosed are the results of analyses for samples received by Summit Scientific on 04/19/11 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to be 'PS' followed by a long horizontal stroke.

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: PDC - Wilson 11,12,21,22-30

Project Number: PDC
Project Manager: Brian Dodek

Reported:
04/22/11 08:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W01@13' (TB)	R104108-01	Soil	04/19/11 13:20	04/19/11 17:00
W02@13' (TB)	R104108-02	Soil	04/19/11 13:25	04/19/11 17:00
E01@13' (TB)	R104108-03	Soil	04/19/11 13:30	04/19/11 17:00
E02@13' (TB)	R104108-04	Soil	04/19/11 13:35	04/19/11 17:00
B01@15' (TB)	R104108-05	Soil	04/19/11 13:40	04/19/11 17:00
B02@15' (TB)	R104108-06	Soil	04/19/11 13:45	04/19/11 17:00
N01@13' (TB)	R104108-07	Soil	04/19/11 13:50	04/19/11 17:00
S01@13' (TB)	R104108-08	Soil	04/19/11 13:55	04/19/11 17:00
B01@10' (SEP)	R104108-09	Soil	04/19/11 14:00	04/19/11 17:00
S01@8' (SEP)	R104108-10	Soil	04/19/11 14:05	04/19/11 17:00
E01@8' (SEP)	R104108-11	Soil	04/19/11 14:10	04/19/11 17:00
W01@8' (SEP)	R104108-12	Soil	04/19/11 14:15	04/19/11 17:00
N01@8' (SEP)	R104108-13	Soil	04/19/11 14:20	04/19/11 17:00

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

Project: PDC - Wilson 11,12,21,22-30

Project Number: PDC
Project Manager: Brian Dodek

Reported:
04/22/11 08:28

R104081

Summit Scientific

741 Corporate Circle Suite 1 • Golden, Colorado 80401
303-277-9310 • 303-277-9531 Fax

Page 1 of 2

Client: LT Environmental, Inc.
Address: 4600 West 60th Avenue
City/State/Zip: Arvada, CO 80003
Phone: (303) 433-9788
Sampler Name: J. Wilson
Project Manager: Brian Dodek
E-Mail: bdodek@ltenv.com
Project Name: Wilson 11,12,21,22-30
Project Number: 11,12,21,22-30

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix		Analyze For:						Special Instructions		
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	DRO	GBTEX	BTEX	Table 9.10 Full		Table 9.10 Short	PH / EC
W01 @ 13' (T6)	4-19-11	1320	1															
W02 @ 13' (T6)		1325	1															
W03 @ 13' (T6)		1330	1															
W04 @ 13' (T6)		1335	1															
W05 @ 13' (T6)		1340	1															
W06 @ 13' (T6)		1345	1															
W07 @ 13' (T6)		1350	1															
W08 @ 13' (T6)		1355	1															
W09 @ 10' (S58P)		1400	1															
W10 @ 8' (S58P)		1405	1															
Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time (Check)				Notes:										
J. Wilson	4-19-11 5pm	OK	4-19-11 5pm	Same Day	72 Hours	Standard												
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 Hours	48 Hours													
				Sample Integrity:	Temperature Upon Receipt:	Intact: Yes No												
					5.10													

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

Project: PDC - Wilson 11,12,21,22-30

Project Number: PDC
Project Manager: Brian Dodek

Reported:
04/22/11 08:28

R104108.2

Summit Scientific

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

Page 7 of 7

Client: LT Environmental, Inc.

Address: 4600 West 60th Avenue

City/State/Zip: Arvada, CO 80003

City/State/Zip: Irvine, CA 92602
Phone: (303) 433-9788
Fax: (303) 433-1432

Sampler Name: J Evans

Project Manager: Brian Dodek

E-Mail: bdodek@ltenv.com

Project Name: Wilson 11.13.21.22-30

Project Number:

Preservative			Matrix						Analyze For:										
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	DRO	GBTEX	BTEX	Table 9.10 Full	Table 9.10 Short	pH / EC	SAR	Special Instructions
201 @ S' (SEF)	4-11-11	1410	1		X	X			X			X	X						
201 @ S' (SEF)	J	1415	1		X	X			X			X	X						
201 @ S' (SEF)		1430	1		X	X			X			X	X						
Relinquished by: Javelle	Date/Time: 4-19-11	5pm		Received by: 	Date/Time: 4-19-11														Notes:
Relinquished by:	Date/Time:			Received by:	Date/Time:														
Relinquished by:	Date/Time:			Received in Lab by:	Date/Time:														Sample Integrity: Temperature Upon Receipt: Intact: Yes No

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

Project: PDC - Wilson 11,12,21,22-30

Project Number: PDC
Project Manager: Brian Dodek

Reported:
04/22/11 08:28

W01@13' (TB)
R104108-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/11 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1041903	04/19/11	04/20/11	8015 Full Carbon Chain	

Date Sampled: **04/19/11 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		101 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/11 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1041904	"	04/19/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/11 13:20**

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

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

Project: PDC - Wilson 11,12,21,22-30

Project Number: PDC
Project Manager: Brian Dodek

Reported:
04/22/11 08:28

W02@13' (TB)
R104108-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/11 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1041903	04/19/11	04/20/11	8015 Full Carbon Chain	

Date Sampled: **04/19/11 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/11 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1041904	"	04/19/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/11 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		131 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		109 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	78.4-125		"	"	"	"	

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

Project: PDC - Wilson 11,12,21,22-30

Project Number: PDC
Project Manager: Brian Dodek

Reported:
04/22/11 08:28

E01@13' (TB)
R104108-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/11 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1041903	04/19/11	04/20/11	8015 Full Carbon Chain	

Date Sampled: **04/19/11 13:30**

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: **04/19/11 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1041904	"	04/19/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/11 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		135 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		109 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	78.4-125		"	"	"	"	

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4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Wilson 11,12,21,22-30

Project Number: PDC
Project Manager: Brian Dodek

Reported:
04/22/11 08:28

E02@13' (TB)
R104108-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/11 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1041903	04/19/11	04/20/11	8015 Full Carbon Chain	

Date Sampled: **04/19/11 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/11 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1041904	"	04/19/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/11 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		134 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		108 %	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: PDC - Wilson 11,12,21,22-30

Project Number: PDC
Project Manager: Brian Dodek

Reported:
04/22/11 08:28

B01@15' (TB)
R104108-05 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/11 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1041903	04/19/11	04/20/11	8015 Full Carbon Chain	

Date Sampled: **04/19/11 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/11 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1041904	"	04/20/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3.2	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/11 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		98.8 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.4 %	78.4-125		"	"	"	"	

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

Project: PDC - Wilson 11,12,21,22-30

Project Number: PDC
Project Manager: Brian Dodek

Reported:
04/22/11 08:28

B02@15' (TB)
R104108-06 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/11 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1041903	04/19/11	04/20/11	8015 Full Carbon Chain	

Date Sampled: **04/19/11 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		100 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/11 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1041904	"	04/19/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/11 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		133 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		109 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	78.4-125		"	"	"	"	

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

Project: PDC - Wilson 11,12,21,22-30

Project Number: PDC
Project Manager: Brian Dodek

Reported:
04/22/11 08:28

N01@13' (TB)
R104108-07 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/11 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1041903	04/19/11	04/20/11	8015 Full Carbon Chain	

Date Sampled: **04/19/11 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.6 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/11 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1041904	"	04/19/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/11 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		134 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		109 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	78.4-125		"	"	"	"	

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

Project: PDC - Wilson 11,12,21,22-30

Project Number: PDC
Project Manager: Brian Dodek

Reported:
04/22/11 08:28

S01@13' (TB)
R104108-08 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/11 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1041903	04/19/11	04/20/11	8015 Full Carbon Chain	

Date Sampled: **04/19/11 13:55**

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: **04/19/11 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1041904	"	04/19/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/11 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		134 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		109 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	78.4-125		"	"	"	"	

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

Project: PDC - Wilson 11,12,21,22-30

Project Number: PDC
Project Manager: Brian Dodek

Reported:
04/22/11 08:28

B01@10' (SEP)
R104108-09 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/11 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	51	50	mg/kg	1	1041903	04/19/11	04/20/11	8015 Full Carbon Chain	

Date Sampled: **04/19/11 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		112 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/11 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1041904	"	04/20/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.4	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/11 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	67.4-143		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96.9 %	77.3-114		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96.3 %	78.4-125		"	"	"	"	

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

Project: PDC - Wilson 11,12,21,22-30

Project Number: PDC
Project Manager: Brian Dodek

Reported:
04/22/11 08:28

S01@8' (SEP)
R104108-10 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/11 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1041903	04/19/11	04/20/11	8015 Full Carbon Chain	

Date Sampled: **04/19/11 14:05**

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: **04/19/11 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1041904	"	04/20/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/11 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		134 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		109 %	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: PDC - Wilson 11,12,21,22-30

Project Number: PDC
Project Manager: Brian Dodek

Reported:
04/22/11 08:28

E01@8' (SEP)
R104108-11 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/11 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1041903	04/19/11	04/20/11	8015 Full Carbon Chain	

Date Sampled: **04/19/11 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		99.9 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/11 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1041904	"	04/20/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/11 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		138 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		104 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		116 %	78.4-125		"	"	"	"	

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

Project: PDC - Wilson 11,12,21,22-30

Project Number: PDC
Project Manager: Brian Dodek

Reported:
04/22/11 08:28

W01@8' (SEP)
R104108-12 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/11 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	140	50	mg/kg	1	1041903	04/19/11	04/20/11	8015 Full Carbon Chain	

Date Sampled: **04/19/11 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		113 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/19/11 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1041904	"	04/20/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.1	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/11 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		97.5 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.6 %	78.4-125		"	"	"	"	

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

Project: PDC - Wilson 11,12,21,22-30

Project Number: PDC
Project Manager: Brian Dodek

Reported:
04/22/11 08:28

N01@8' (SEP)
R104108-13 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/19/11 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1041903	04/19/11	04/20/11	8015 Full Carbon Chain	

Date Sampled: **04/19/11 14:20**

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: **04/19/11 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1041904	"	04/20/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **04/19/11 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		139 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		110 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	78.4-125		"	"	"	"	

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

Project: PDC - Wilson 11,12,21,22-30

Project Number: PDC
Project Manager: Brian Dodek

Reported:
04/22/11 08:28

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 1041903 - EPA 3550A

Blank (1041903-BLK1)

Prepared: 04/19/11 Analyzed: 04/20/11

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 14.0 " 12.5 112 88.8-124

Blank (1041903-BLK2)

Prepared: 04/19/11 Analyzed: 04/20/11

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 13.9 " 12.5 111 88.8-124

LCS (1041903-BS1)

Prepared: 04/19/11 Analyzed: 04/20/11

C10-C28 (DRO) 459 50 mg/kg 501 91.6 81.4-129 9.26

LCS (1041903-BS2)

Prepared: 04/19/11 Analyzed: 04/20/11

C10-C28 (DRO) 468 50 mg/kg 501 93.5 81.4-129 9.26

LCS Dup (1041903-BSD1)

Prepared: 04/19/11 Analyzed: 04/20/11

C10-C28 (DRO) 487 50 mg/kg 501 97.2 81.4-129 5.93 9.26

LCS Dup (1041903-BSD2)

Prepared: 04/19/11 Analyzed: 04/21/11

C10-C28 (DRO) 524 50 mg/kg 501 105 81.4-129 11.1 9.26

Matrix Spike (1041903-MS1)

Source: R104100-02

Prepared: 04/19/11 Analyzed: 04/21/11

C10-C28 (DRO) 488 50 mg/kg 501 ND 97.4 77.8-133 8.48

Matrix Spike (1041903-MS2)

Source: R104108-01

Prepared: 04/19/11 Analyzed: 04/21/11

C10-C28 (DRO) 463 50 mg/kg 501 15.0 89.5 77.8-133 8.48

Matrix Spike Dup (1041903-MSD1)

Source: R104100-02

Prepared: 04/19/11 Analyzed: 04/21/11

C10-C28 (DRO) 468 50 mg/kg 501 ND 93.4 77.8-133 4.16 8.48

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

Project: PDC - Wilson 11,12,21,22-30

Project Number: PDC
Project Manager: Brian Dodek

Reported:
04/22/11 08:28

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 1041903 - EPA 3550A

Matrix Spike Dup (1041903-MSD2)

Source: R104108-01

Prepared: 04/19/11

Analyzed: 04/21/11

C10-C28 (DRO)	450	50	mg/kg	501	15.0	86.9	77.8-133	2.87	8.48
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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: PDC - Wilson 11,12,21,22-30
Project Number: PDC
Project Manager: Brian Dodek

Reported:
04/22/11 08:28

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 1041904 - EPA 5030 Soil MS

Blank (1041904-BLK1)

Prepared: 04/19/11 Analyzed: 04/20/11

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	0.0478		"	0.0400		119	67.4-143			
Surrogate: Toluene-d8	0.0427		"	0.0400		107	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0439		"	0.0400		110	78.4-125			

Blank (1041904-BLK2)

Prepared: 04/19/11 Analyzed: 04/20/11

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	0.0486		"	0.0400		122	67.4-143			
Surrogate: Toluene-d8	0.0438		"	0.0400		109	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0449		"	0.0400		112	78.4-125			

LCS (1041904-BS1)

Prepared: 04/19/11 Analyzed: 04/20/11

Benzene	0.119	0.0050	mg/kg	0.100		119	61-139		11.1	
Toluene	0.113	0.0050	"	0.100		113	64-132		10.9	
Ethylbenzene	0.105	0.0050	"	0.100		105	68.7-135		20	
m,p-Xylene	0.215	0.010	"	0.200		108	70.4-129		20	
o-Xylene	0.0998	0.0050	"	0.100		99.8	66.9-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0500		"	0.0400		125	67.4-143			
Surrogate: Toluene-d8	0.0439		"	0.0400		110	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0440		"	0.0400		110	78.4-125			

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

Project: PDC - Wilson 11,12,21,22-30

Project Number: PDC
Project Manager: Brian Dodek

Reported:
04/22/11 08:28

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 1041904 - EPA 5030 Soil MS

LCS (1041904-BS2)

Prepared: 04/19/11 Analyzed: 04/20/11

Benzene	0.121	0.0050	mg/kg	0.100	121	61-139	11.1
Toluene	0.114	0.0050	"	0.100	114	64-132	10.9
Ethylbenzene	0.105	0.0050	"	0.100	105	68.7-135	20
m,p-Xylene	0.211	0.010	"	0.200	105	70.4-129	20
o-Xylene	0.0987	0.0050	"	0.100	98.7	66.9-126	20
Surrogate: 1,2-Dichloroethane-d4	0.0510		"	0.0400	128	67.4-143	
Surrogate: Toluene-d8	0.0440		"	0.0400	110	77.3-114	
Surrogate: 4-Bromofluorobenzene	0.0428		"	0.0400	107	78.4-125	

LCS Dup (1041904-BSD1)

Prepared: 04/19/11 Analyzed: 04/20/11

Benzene	0.122	0.0050	mg/kg	0.100	122	61-139	2.96	11.1
Toluene	0.116	0.0050	"	0.100	116	64-132	2.07	10.9
Ethylbenzene	0.108	0.0050	"	0.100	108	68.7-135	3.21	20
m,p-Xylene	0.221	0.010	"	0.200	111	70.4-129	2.83	20
o-Xylene	0.101	0.0050	"	0.100	101	66.9-126	1.05	20
Surrogate: 1,2-Dichloroethane-d4	0.0492		"	0.0400	123	67.4-143		
Surrogate: Toluene-d8	0.0440		"	0.0400	110	77.3-114		
Surrogate: 4-Bromofluorobenzene	0.0420		"	0.0400	105	78.4-125		

LCS Dup (1041904-BSD2)

Prepared: 04/19/11 Analyzed: 04/20/11

Benzene	0.121	0.0050	mg/kg	0.100	121	61-139	0.347	11.1
Toluene	0.112	0.0050	"	0.100	112	64-132	1.33	10.9
Ethylbenzene	0.107	0.0050	"	0.100	107	68.7-135	1.86	20
m,p-Xylene	0.217	0.010	"	0.200	108	70.4-129	2.82	20
o-Xylene	0.102	0.0050	"	0.100	102	66.9-126	3.11	20
Surrogate: 1,2-Dichloroethane-d4	0.0486		"	0.0400	122	67.4-143		
Surrogate: Toluene-d8	0.0443		"	0.0400	111	77.3-114		
Surrogate: 4-Bromofluorobenzene	0.0425		"	0.0400	106	78.4-125		

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

Project: PDC - Wilson 11,12,21,22-30

Project Number: PDC
Project Manager: Brian Dodek

Reported:
04/22/11 08:28

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 1041904 - EPA 5030 Soil MS

Matrix Spike (1041904-MS1)		Source: R104101-02			Prepared: 04/19/11		Analyzed: 04/20/11			
Benzene	0.120	0.0050	mg/kg	0.100	0.0119	108	42.9-137		17.9	
Toluene	0.115	0.0050	"	0.100	0.0201	94.6	42.6-130		11.9	
Ethylbenzene	0.104	0.0050	"	0.100	ND	104	39-133		20	
m,p-Xylene	0.213	0.010	"	0.200	0.0146	99.0	34.7-134		20	
o-Xylene	0.0994	0.0050	"	0.100	0.00309	96.3	41.3-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0509		"	0.0400		127	67.4-143			
Surrogate: Toluene-d8	0.0443		"	0.0400		111	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0438		"	0.0400		109	78.4-125			

Matrix Spike (1041904-MS2)		Source: R104108-01			Prepared: 04/19/11		Analyzed: 04/20/11			
Benzene	0.122	0.0050	mg/kg	0.100	ND	122	42.9-137		17.9	
Toluene	0.114	0.0050	"	0.100	ND	114	42.6-130		11.9	
Ethylbenzene	0.101	0.0050	"	0.100	ND	101	39-133		20	
m,p-Xylene	0.206	0.010	"	0.200	ND	103	34.7-134		20	
o-Xylene	0.100	0.0050	"	0.100	ND	100	41.3-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0546		"	0.0400		136	67.4-143			
Surrogate: Toluene-d8	0.0441		"	0.0400		110	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0452		"	0.0400		113	78.4-125			

Matrix Spike Dup (1041904-MSD1)		Source: R104101-02			Prepared: 04/19/11		Analyzed: 04/20/11			
Benzene	0.118	0.0050	mg/kg	0.100	0.0119	106	42.9-137	1.84	17.9	
Toluene	0.111	0.0050	"	0.100	0.0201	91.3	42.6-130	2.89	11.9	
Ethylbenzene	0.102	0.0050	"	0.100	ND	102	39-133	2.71	20	
m,p-Xylene	0.203	0.010	"	0.200	0.0146	94.1	34.7-134	4.70	20	
o-Xylene	0.0975	0.0050	"	0.100	0.00309	94.4	41.3-126	1.89	20	
Surrogate: 1,2-Dichloroethane-d4	0.0527		"	0.0400		132	67.4-143			
Surrogate: Toluene-d8	0.0432		"	0.0400		108	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0440		"	0.0400		110	78.4-125			

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

Project: PDC - Wilson 11,12,21,22-30

Project Number: PDC
Project Manager: Brian Dodek

Reported:
04/22/11 08:28

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

Batch 1041904 - EPA 5030 Soil MS

Matrix Spike Dup (1041904-MSD2)		Source: R104108-01			Prepared: 04/19/11		Analyzed: 04/20/11			
Benzene	0.122	0.0050	mg/kg	0.100	ND	122	42.9-137	0.270	17.9	
Toluene	0.115	0.0050	"	0.100	ND	115	42.6-130	1.23	11.9	
Ethylbenzene	0.103	0.0050	"	0.100	ND	103	39-133	2.11	20	
m,p-Xylene	0.207	0.010	"	0.200	ND	104	34.7-134	0.683	20	
o-Xylene	0.100	0.0050	"	0.100	ND	100	41.3-126	0.209	20	
Surrogate: 1,2-Dichloroethane-d4	0.0558		"	0.0400		140	67.4-143			
Surrogate: Toluene-d8	0.0447		"	0.0400		112	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0452		"	0.0400		113	78.4-125			

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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

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A handwritten signature in black ink, appearing to be 'JD' or similar, with a long horizontal stroke extending to the right.

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