



May 10, 2012

Mr. John Axelson
Northeast Region Environmental Protection Specialist
Colorado Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801
Denver, Colorado 80203

**RE: Groundwater Monitoring Report/No Further Action Request
Petroleum Development Corporation
Leffler 13, 14, 23, 24-35, 35B Tank Battery
API: 05-123-28169
Spill #2213127
Remediation #6011
C/SW Sec. 35-T7N-R66W 6 PM
Weld County, Colorado**

Dear Mr. Axelson:

LT Environmental, Inc. (LTE), under the direction of Petroleum Development Corporation (PDC), conducted groundwater sampling activities at the Leffler 13, 14, 23, 24-35, 35B tank battery (Site) on January 23, 2012. This monitoring event comprises the fourth consecutive monitoring event at this Site with analytical results that are in compliance with Colorado Department of Public Health and Environment (CDPHE) Water Quality Control Commission (WQCC) Regulation 41 (Reg 41). The Site is located approximately 0.25 miles east of County Road 74 and County Road 33 in Weld County, Colorado. The legal site description is the center of the southwest quarter of Section 35, Township 7 North, and Range 66 West of the 6th Principal Meridian. A Site Location Map is provided as Figure 1.

Source Removal Activities

During a routine inspection at the Site in February 2011, PDC discovered oil at the surface within the berm containing the production tanks and produced water vaults. After further inspection, PDC discovered impacted soil and groundwater beneath the Site. The source of the release was determined to be a welded area on the bottom of a production tank that had failed. Once the on-site equipment was removed, approximately 440 cubic yards of impacted soil above Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 Concentration Levels were excavated and transported to the Waste Management landfill in Ault, Colorado for disposal. A total of 180 barrels of impacted groundwater exceeding CDPHE WQCC Reg 41 standards were recovered and disposed of at a licensed facility.

Soil samples were collected from the extent of the excavation (SS01 through SS04) and submitted for laboratory analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX); total petroleum hydrocarbons (TPH)-gasoline range organics (GRO); and naphthalene by United States Environmental Protection Agency (EPA) Method 8260B and TPH-diesel range organics



(DRO) by EPA Modified Method 8015. Laboratory results indicated BTEX, TPH-GRO, TPH-DRO, and naphthalene concentrations for all samples collected from the excavation are below reporting limits and in compliance with COGCC Table 910-1 Concentration Levels (Table 1).

A groundwater sample was collected from the excavation (GW01) and submitted for analysis of BTEX by EPA Method 8260B (Figure 2). Laboratory results indicated the benzene concentration exceeded the CDPHE WQCC Reg 41 standard in GW01 (Table 2).

Before backfilling the excavation, activated carbon was applied to the groundwater and exposed smear zone soils to remediate residual hydrocarbons remaining in the excavation. A topographic map and a site map are provided as Figures 1 and 2. Soil and groundwater analytical results are summarized in Tables 1 and 2. The laboratory analytical reports are included as an attachment.

Quarterly Groundwater Monitoring

Monitoring wells MW01 through MW03 were installed at the Site on April 11, 2011 (Figure 2). Following installation, each well was developed and purged. Groundwater samples were collected from the wells on a quarterly basis and submitted for laboratory analysis of BTEX by EPA Method 8260B from April 2011 through January 2012. Laboratory analytical results indicate BTEX levels in groundwater have been in compliance with CDPHE WQCC Reg 41 standards for four consecutive quarters. As soil and groundwater has now been remediated to achieve COGCC cleanup goals, PDC is requesting a No Further Action determination for the Site.

Should you have any questions, please contact Brandon Bruns with PDC at (303) 831-3971.

Sincerely,

LT ENVIRONMENTAL, INC.

Devin Girtin, G.I.T.
Staff Geologist

Brian Dodek, P.G.
Client Manager/Senior Geologist

Attachments:

Figure 1 – Site Location Map

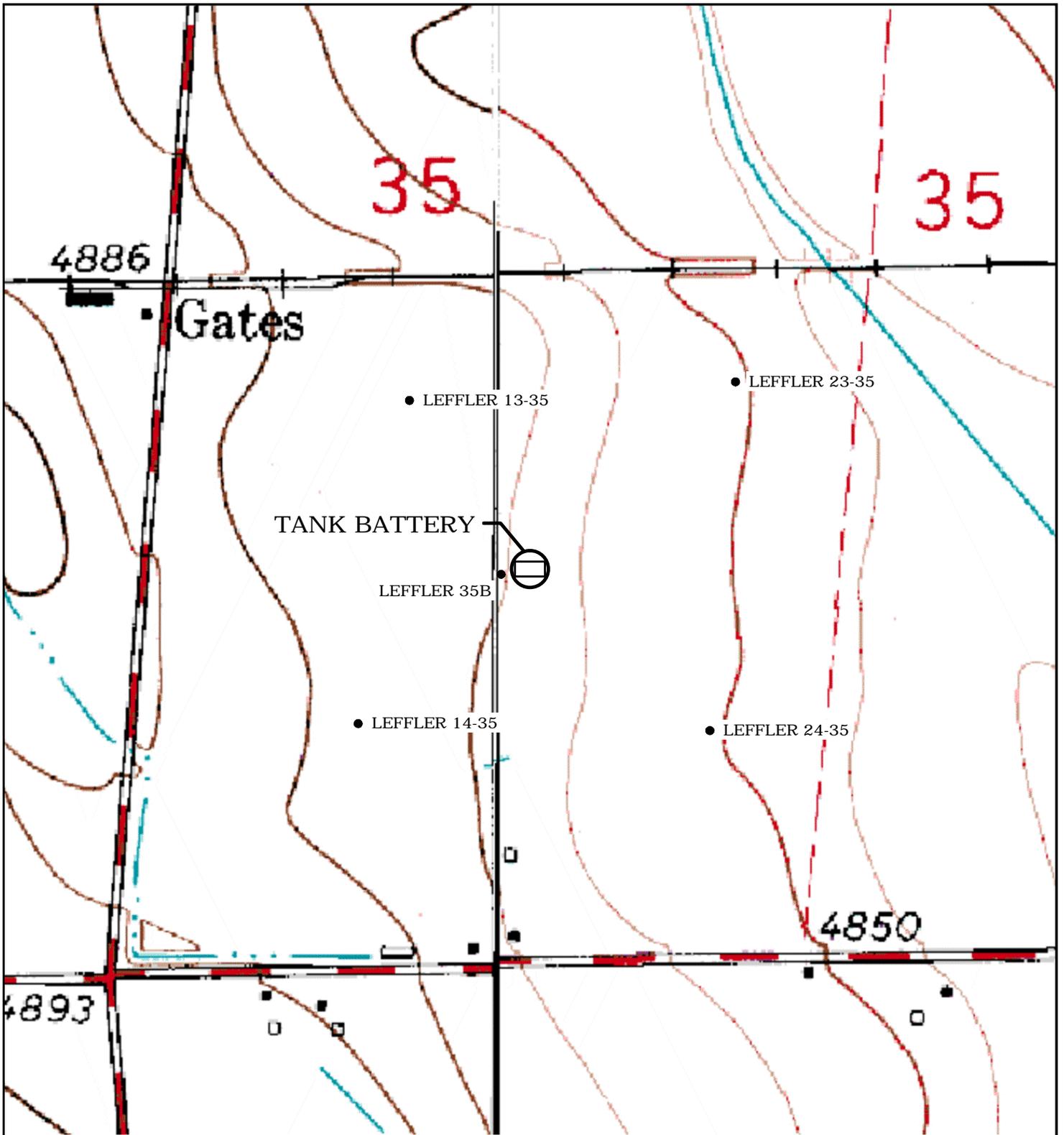
Figure 2 – Site Map

Table 1 – Soil Sample Analytical Results

Table 2 – Groundwater Analytical Results

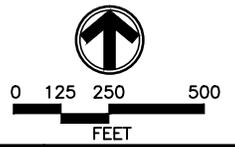
Attachment – Laboratory Analytical Reports

FIGURES



LEGEND

-  TANK BATTERY
-  WELL LOCATION

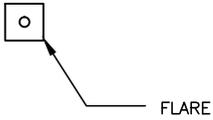
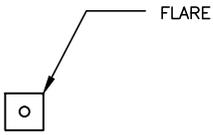


SOURCE: TOPOZONE.COM
USGS 7.5' QUADRANGLE
(NAD27)

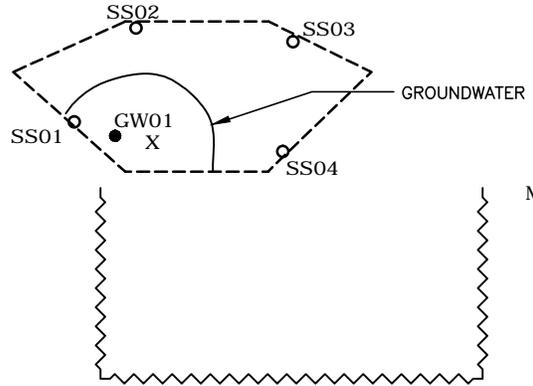
FIGURE 1
SITE LOCATION MAP
LEFFLER 13, 14, 23, 24-35, 35B
C/SW 35-T7N-R66W
WELD COUNTY, CO
PETROLEUM DEVELOPMENT CORPORATION



AGRICULTURE



MW01



MW02

MW03

LEASE ROAD

AGRICULTURE

LEGEND

⊗ MONITORING WELL

○ SOIL SAMPLE

● GROUNDWATER SAMPLE

M METER HOUSE

X RELEASE LOCATION

~ CORRUGATED STEEL BERM

- - - EXTENT OF EXCAVATION

➔ ESTIMATED GROUNDWATER FLOW DIRECTION



0 5 10 20
FEET
APPROXIMATE SCALE

FIGURE 2
SITE MAP
LEFFLER 13, 14, 23, 24-35, 35B
C/SW 35-T7N-R66W
WELD COUNTY, COLORADO
PETROLEUM DEVELOPMENT CORPORATION



0188-110260102

TABLES

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
LEFFLER 13, 14, 23, 24-35, 35B (API No. 05-123-28169)
WELD COUNTY, COLORADO
PETROLEUM DEVELOPMENT CORPORATION

Sample ID	Depth (ft bgs)	Date Sampled	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)
SS01	9	02/24/2011	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<50.5
SS02	9	02/24/2011	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<50.5
SS03	9	02/24/2011	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<50.5
SS04	9	02/24/2011	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<50.5
Basic Standards for Soil			0.17	85	100	175	23	500

Notes:

API - American Petroleum Institute
mg/kg - milligrams per kilogram
TPH - total petroleum hydrocarbons (C6-C28)

ft bgs - feet below ground surface
NA - not analyzed
< - less than stated laboratory reporting limit

Basic Standards for Soil are taken from 2 CCR 404-1, Table 910-1, effective April 1, 2009.
Bold indicates result equalled or exceeded standard.



TABLE 2
GROUNDWATER ANALYTICAL RESULTS
LEFFLER 13, 14, 23, 24-35, 35B (API No. 05-123-28169)
WELD COUNTY, COLORADO
PETROLEUM DEVELOPMENT CORPORATION

Sample ID	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	Depth to Water (ft btoc)
GW01	02/24/2011	130	280	33	250	NM
MW01	04/12/2011	<1.0	<1.0	<1.0	<1.0	10.13
	07/18/2011	<1.0	<1.0	<1.0	<1.0	7.30
	10/17/2011	<1.0	<1.0	<1.0	<1.0	8.92
	01/23/2012	<1.0	<1.0	<1.0	<1.0	10.20
MW02	04/12/2011	<1.0	<1.0	<1.0	<1.0	11.01
	07/18/2011	<1.0	<1.0	<1.0	<1.0	7.93
	10/17/2011	<1.0	<1.0	<1.0	<1.0	9.82
	01/23/2012	<1.0	<1.0	<1.0	<1.0	10.80
MW03	04/12/2011	<1.0	<1.0	<1.0	<1.0	10.94
	07/18/2011	<1.0	<1.0	<1.0	<1.0	8.00
	10/17/2011	<1.0	<1.0	<1.0	<1.0	9.80
	01/23/2012	<1.0	<1.0	<1.0	<1.0	10.90
Basic Standards for Groundwater:		5	560	700	1400	

Notes:

API - American Petroleum Institute
NA - not analyzed/not available
ug/L - micrograms per Liter

ft btoc - feet below top of casing
NM - not measured
< - less than stated laboratory reporting limit

Basic Standards for Ground Water are from the Colorado Department of Health and Environment -
Water Quality Control Commission Regulation 41, effective 4/1/2009.

Bold indicates result equaled or exceeded standard.



ATTACHMENT
LABORATORY ANALYTICAL REPORTS

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

February 04, 2012

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Leffler 13, 14, 23, 24-35, 35B

Enclosed are the results of analyses for samples received by Summit Scientific on 01/23/12 17:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
Project Manager: Brian Dodek

Reported:
02/04/12 09:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R201152-01	Water	01/23/12 13:10	01/23/12 17:05
MW02	R201152-02	Water	01/23/12 13:15	01/23/12 17:05
MW03	R201152-03	Water	01/23/12 13:20	01/23/12 17:05

Summit Scientific

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



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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
 Project Manager: Brian Dodek

Reported:
 02/04/12 09:56

MW01
R201152-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/23/12 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2020106	02/01/12	02/03/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/23/12 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		95.6 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.9 %	80.8-120		"	"	"	"	

Summit Scientific

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



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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
 Project Manager: Brian Dodek

Reported:
 02/04/12 09:56

MW02
R201152-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/23/12 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2020106	02/01/12	02/03/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/23/12 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.3 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.6 %	80.8-120		"	"	"	"	

Summit Scientific

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



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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
 Project Manager: Brian Dodek

Reported:
 02/04/12 09:56

MW03
R201152-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/23/12 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2020106	02/01/12	02/03/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **01/23/12 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>110 %</i>	<i>57.9-139</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>95.5 %</i>	<i>83.1-115</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>97.6 %</i>	<i>80.8-120</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

Summit Scientific

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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
Project Manager: Brian Dodek

Reported:
02/04/12 09:56

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 2020106 - EPA 5030 Water MS

Blank (2020106-BLK1)

Prepared: 02/01/12 Analyzed: 02/03/12

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	1.0	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.3</i>		<i>"</i>	<i>13.2</i>	<i>108</i>	<i>57.9-139</i>					
<i>Surrogate: Toluene-d8</i>	<i>12.9</i>		<i>"</i>	<i>13.3</i>	<i>96.6</i>	<i>83.1-115</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.9</i>		<i>"</i>	<i>13.3</i>	<i>97.1</i>	<i>80.8-120</i>					

LCS (2020106-BS1)

Prepared: 02/01/12 Analyzed: 02/03/12

Benzene	29.6	1.0	ug/l	33.3	88.7	60.1-131			10.9		
Toluene	30.3	1.0	"	33.3	90.8	65.9-127			11.3		
Ethylbenzene	29.8	1.0	"	33.3	89.5	65.1-129			20		
m,p-Xylene	64.8	2.0	"	66.7	97.2	66.8-127			20		
o-Xylene	32.5	1.0	"	33.3	97.4	61.2-120			20		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.2</i>		<i>"</i>	<i>13.2</i>	<i>107</i>	<i>57.9-139</i>					
<i>Surrogate: Toluene-d8</i>	<i>13.0</i>		<i>"</i>	<i>13.3</i>	<i>97.4</i>	<i>83.1-115</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>	<i>98.1</i>	<i>80.8-120</i>					

LCS Dup (2020106-BSD1)

Prepared: 02/01/12 Analyzed: 02/03/12

Benzene	29.9	1.0	ug/l	33.3	89.6	60.1-131	1.11		10.9		
Toluene	30.8	1.0	"	33.3	92.3	65.9-127	1.64		11.3		
Ethylbenzene	28.2	1.0	"	33.3	84.8	65.1-129	5.44		20		
m,p-Xylene	62.5	2.0	"	66.7	93.7	66.8-127	3.62		20		
o-Xylene	30.6	1.0	"	33.3	91.9	61.2-120	5.86		20		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.4</i>		<i>"</i>	<i>13.2</i>	<i>109</i>	<i>57.9-139</i>					
<i>Surrogate: Toluene-d8</i>	<i>13.9</i>		<i>"</i>	<i>13.3</i>	<i>104</i>	<i>83.1-115</i>					
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.7</i>		<i>"</i>	<i>13.3</i>	<i>95.1</i>	<i>80.8-120</i>					

Summit Scientific

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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
Project Manager: Brian Dodek

Reported:
02/04/12 09:56

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 2020106 - EPA 5030 Water MS

Matrix Spike (2020106-MS1)	Source: R201152-01			Prepared: 02/01/12		Analyzed: 02/03/12				
Benzene	29.4	1.0	ug/l	33.3	ND	88.1	52.7-130			19.3
Toluene	30.0	1.0	"	33.3	ND	90.2	57-127			18.7
Ethylbenzene	28.9	1.0	"	33.3	ND	86.8	59.2-127			20
m,p-Xylene	62.8	2.0	"	66.7	ND	94.2	53.2-132			20
o-Xylene	31.1	1.0	"	33.3	ND	93.4	56.3-117			20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.5</i>		<i>"</i>	<i>13.2</i>		<i>110</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.2</i>		<i>"</i>	<i>13.3</i>		<i>99.3</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.0</i>		<i>"</i>	<i>13.3</i>		<i>97.7</i>	<i>80.8-120</i>			

Matrix Spike Dup (2020106-MSD1)	Source: R201152-01			Prepared: 02/01/12		Analyzed: 02/03/12				
Benzene	30.5	1.0	ug/l	33.3	ND	91.6	52.7-130	3.94		19.3
Toluene	31.7	1.0	"	33.3	ND	95.1	57-127	5.31		18.7
Ethylbenzene	31.1	1.0	"	33.3	ND	93.2	59.2-127	7.07		20
m,p-Xylene	67.4	2.0	"	66.7	ND	101	53.2-132	7.08		20
o-Xylene	33.8	1.0	"	33.3	ND	102	56.3-117	8.37		20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.6</i>		<i>"</i>	<i>13.2</i>		<i>110</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.4</i>		<i>"</i>	<i>13.3</i>		<i>101</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.3</i>		<i>"</i>	<i>13.3</i>		<i>99.6</i>	<i>80.8-120</i>			

Summit Scientific

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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
Project Manager: Brian Dodek

Reported:
02/04/12 09:56

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

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.

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

October 21, 2011

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Leffler 13, 14, 23, 24-35, 35B

Enclosed are the results of analyses for samples received by Summit Scientific on 10/18/11 16:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
Project Manager: Brian Dodek

Reported:
10/21/11 08:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R110107-01	Water	10/17/11 12:50	10/18/11 16:55
MW02	R110107-02	Water	10/17/11 12:25	10/18/11 16:55
MW03	R110107-03	Water	10/17/11 12:40	10/18/11 16:55

Summit Scientific

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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
 Project Manager: Brian Dodek

Reported:
 10/21/11 08:56

MW01
R110107-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/11 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1101909	10/19/11	10/19/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/17/11 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		84.5 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		101 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %	80.8-120		"	"	"	"	

Summit Scientific

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



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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
 Project Manager: Brian Dodek

Reported:
 10/21/11 08:56

MW02
R110107-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/11 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1101909	10/19/11	10/19/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/17/11 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		84.5 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.1 %	80.8-120		"	"	"	"	

Summit Scientific

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



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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
Project Manager: Brian Dodek

Reported:
10/21/11 08:56

MW03
R110107-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/11 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1101909	10/19/11	10/20/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **10/17/11 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		83.1 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.8 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.1 %	80.8-120		"	"	"	"	

Summit Scientific

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



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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
Project Manager: Brian Dodek

Reported:
10/21/11 08:56

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 1101909 - EPA 5030 Water MS

Blank (1101909-BLK1)

Prepared & Analyzed: 10/19/11

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	15.5		"	13.3	116	57.9-139				
Surrogate: Toluene-d8	13.6		"	13.3	102	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3	103	80.8-120				

LCS (1101909-BS1)

Prepared & Analyzed: 10/19/11

Benzene	32.9	1.0	ug/l	33.3	98.8	60.1-131		10.9		
Toluene	33.0	1.0	"	33.3	99.0	65.9-127		11.3		
Ethylbenzene	31.6	1.0	"	33.3	94.8	65.1-129		20		
m,p-Xylene	62.8	2.0	"	66.7	94.3	66.8-127		20		
o-Xylene	32.2	1.0	"	33.3	96.6	61.2-120		20		
Surrogate: 1,2-Dichloroethane-d4	14.8		"	13.3	111	57.9-139				
Surrogate: Toluene-d8	13.4		"	13.3	101	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3	98.1	80.8-120				

LCS Dup (1101909-BSD1)

Prepared & Analyzed: 10/19/11

Benzene	33.8	1.0	ug/l	33.3	101	60.1-131	2.46	10.9		
Toluene	33.4	1.0	"	33.3	100	65.9-127	1.29	11.3		
Ethylbenzene	32.7	1.0	"	33.3	98.0	65.1-129	3.33	20		
m,p-Xylene	65.2	2.0	"	66.7	97.7	66.8-127	3.61	20		
o-Xylene	33.3	1.0	"	33.3	99.8	61.2-120	3.27	20		
Surrogate: 1,2-Dichloroethane-d4	14.4		"	13.3	108	57.9-139				
Surrogate: Toluene-d8	13.2		"	13.3	99.2	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3	97.2	80.8-120				

Summit Scientific

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



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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
Project Manager: Brian Dodek

Reported:
10/21/11 08:56

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 1101909 - EPA 5030 Water MS

Matrix Spike (1101909-MS1)	Source: R110107-01			Prepared & Analyzed: 10/19/11						
Benzene	34.8	1.0	ug/l	33.3	ND	104	52.7-130		19.3	
Toluene	35.2	1.0	"	33.3	ND	106	57-127		18.7	
Ethylbenzene	34.3	1.0	"	33.3	ND	103	59.2-127		20	
m,p-Xylene	68.2	2.0	"	66.7	ND	102	53.2-132		20	
o-Xylene	34.1	1.0	"	33.3	ND	102	56.3-117		20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>11.3</i>		<i>"</i>	<i>13.3</i>		<i>84.9</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.5</i>		<i>"</i>	<i>13.3</i>		<i>101</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.7</i>		<i>"</i>	<i>13.3</i>		<i>95.0</i>	<i>80.8-120</i>			

Matrix Spike Dup (1101909-MSD1)	Source: R110107-01			Prepared & Analyzed: 10/19/11						
Benzene	33.9	1.0	ug/l	33.3	ND	102	52.7-130	2.59	19.3	
Toluene	34.3	1.0	"	33.3	ND	103	57-127	2.45	18.7	
Ethylbenzene	34.5	1.0	"	33.3	ND	103	59.2-127	0.465	20	
m,p-Xylene	69.1	2.0	"	66.7	ND	104	53.2-132	1.27	20	
o-Xylene	34.7	1.0	"	33.3	ND	104	56.3-117	1.86	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.9</i>		<i>"</i>	<i>13.3</i>		<i>82.0</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>		<i>98.0</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.7</i>		<i>"</i>	<i>13.3</i>		<i>95.5</i>	<i>80.8-120</i>			

Summit Scientific

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



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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
Project Manager: Brian Dodek

Reported:
10/21/11 08:56

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

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.

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

July 21, 2011

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Leffler 13, 14, 23, 24-35, 35B

Enclosed are the results of analyses for samples received by Summit Scientific on 07/18/11 16:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
Project Manager: Brian Dodek

Reported:
07/21/11 13:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R107097-01	Water	07/18/11 10:35	07/18/11 16:50
MW02	R107097-02	Water	07/18/11 10:40	07/18/11 16:50
MW03	R107097-03	Water	07/18/11 10:45	07/18/11 16:50

Summit Scientific

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



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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
 Project Manager: Brian Dodek

Reported:
 07/21/11 13:43

MW01
R107097-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/18/11 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1071911	07/19/11	07/20/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **07/18/11 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.3 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		91.7 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.9 %	80.8-120		"	"	"	"	

Summit Scientific

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



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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
 Project Manager: Brian Dodek

Reported:
 07/21/11 13:43

MW02
R107097-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/18/11 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1071911	07/19/11	07/20/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **07/18/11 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		87.8 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		87.0 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		92.0 %	80.8-120		"	"	"	"	

Summit Scientific

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



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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
 Project Manager: Brian Dodek

Reported:
 07/21/11 13:43

MW03
R107097-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/18/11 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1071911	07/19/11	07/20/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **07/18/11 10:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		91.7 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96.8 %	80.8-120		"	"	"	"	

Summit Scientific

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



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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
Project Manager: Brian Dodek

Reported:
07/21/11 13:43

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1071911 - EPA 5030 Water MS

Blank (1071911-BLK1)

Prepared & Analyzed: 07/19/11

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	12.1		"	13.3	90.5	57.9-139					
Surrogate: Toluene-d8	12.0		"	13.3	90.2	83.1-115					
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3	97.2	80.8-120					

LCS (1071911-BS1)

Prepared & Analyzed: 07/19/11

Benzene	27.6	1.0	ug/l	33.3	82.7	60.1-131			10.9		
Toluene	28.0	1.0	"	33.3	84.2	65.9-127			11.3		
Ethylbenzene	31.2	1.0	"	33.3	93.5	65.1-129			20		
m,p-Xylene	64.4	2.0	"	66.7	96.5	66.8-127			20		
o-Xylene	32.4	1.0	"	33.3	97.1	61.2-120			20		
Surrogate: 1,2-Dichloroethane-d4	12.1		"	13.3	90.9	57.9-139					
Surrogate: Toluene-d8	12.3		"	13.3	92.6	83.1-115					
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3	95.6	80.8-120					

LCS Dup (1071911-BSD1)

Prepared & Analyzed: 07/19/11

Benzene	27.6	1.0	ug/l	33.3	82.9	60.1-131	0.181		10.9		
Toluene	27.9	1.0	"	33.3	83.6	65.9-127	0.680		11.3		
Ethylbenzene	31.3	1.0	"	33.3	93.8	65.1-129	0.320		20		
m,p-Xylene	64.3	2.0	"	66.7	96.5	66.8-127	0.0311		20		
o-Xylene	32.1	1.0	"	33.3	96.2	61.2-120	0.838		20		
Surrogate: 1,2-Dichloroethane-d4	12.1		"	13.3	90.5	57.9-139					
Surrogate: Toluene-d8	12.1		"	13.3	90.8	83.1-115					
Surrogate: 4-Bromofluorobenzene	12.2		"	13.3	91.7	80.8-120					

Summit Scientific

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



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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
Project Manager: Brian Dodek

Reported:
07/21/11 13:43

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 1071911 - EPA 5030 Water MS

Matrix Spike (1071911-MS1)	Source: R107091-01			Prepared & Analyzed: 07/19/11						
Benzene	27.6	1.0	ug/l	33.3	ND	82.7	52.7-130			19.3
Toluene	27.8	1.0	"	33.3	ND	83.4	57-127			18.7
Ethylbenzene	31.1	1.0	"	33.3	ND	93.4	59.2-127			20
m,p-Xylene	64.7	2.0	"	66.7	ND	97.1	53.2-132			20
o-Xylene	31.5	1.0	"	33.3	ND	94.5	56.3-117			20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>12.8</i>		<i>"</i>	<i>13.3</i>		<i>95.6</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.1</i>		<i>"</i>	<i>13.3</i>		<i>90.5</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.7</i>		<i>"</i>	<i>13.3</i>		<i>95.3</i>	<i>80.8-120</i>			

Matrix Spike Dup (1071911-MSD1)	Source: R107091-01			Prepared & Analyzed: 07/19/11						
Benzene	27.3	1.0	ug/l	33.3	ND	81.9	52.7-130	0.875		19.3
Toluene	28.5	1.0	"	33.3	ND	85.6	57-127	2.52		18.7
Ethylbenzene	31.5	1.0	"	33.3	ND	94.5	59.2-127	1.25		20
m,p-Xylene	65.1	2.0	"	66.7	ND	97.6	53.2-132	0.586		20
o-Xylene	32.3	1.0	"	33.3	ND	96.9	56.3-117	2.45		20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>12.6</i>		<i>"</i>	<i>13.3</i>		<i>94.9</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.6</i>		<i>"</i>	<i>13.3</i>		<i>94.4</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.5</i>		<i>"</i>	<i>13.3</i>		<i>94.0</i>	<i>80.8-120</i>			

Summit Scientific

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



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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
Project Manager: Brian Dodek

Reported:
07/21/11 13:43

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

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.

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 18, 2011

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Leffler 13, 14, 23, 24-35, 35B

Enclosed are the results of analyses for samples received by Summit Scientific on 04/12/11 16:30. 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', with a long horizontal flourish extending to the right.

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
Project Manager: Brian Dodek

Reported:
04/18/11 15:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R104070-01	Water	04/12/11 11:30	04/12/11 16:30
MW02	R104070-02	Water	04/12/11 11:50	04/12/11 16:30
MW03	R104070-03	Water	04/12/11 12:10	04/12/11 16:30

Summit Scientific

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



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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
 Project Manager: Brian Dodek

Reported:
 04/18/11 15:15

MW01
R104070-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/12/11 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1041503	04/15/11	04/16/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **04/12/11 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.1 %	80.8-120		"	"	"	"	

Summit Scientific

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



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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
 Project Manager: Brian Dodek

Reported:
 04/18/11 15:15

MW02
R104070-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/12/11 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1041503	04/15/11	04/16/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **04/12/11 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.8 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.6 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
 Project Manager: Brian Dodek

Reported:
 04/18/11 15:15

MW03
R104070-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/12/11 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1041503	04/15/11	04/16/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **04/12/11 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		104 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.2 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.2 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
Project Manager: Brian Dodek

Reported:
04/18/11 15:15

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 1041503 - EPA 5030 Water MS

Blank (1041503-BLK1)

Prepared & Analyzed: 04/15/11

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3	100	57.9-139				
Surrogate: Toluene-d8	13.2		"	13.3	99.3	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3	97.2	80.8-120				

LCS (1041503-BS1)

Prepared & Analyzed: 04/15/11

Benzene	32.2	1.0	ug/l	33.3	96.7	60.1-131		10.9		
Toluene	36.5	1.0	"	33.3	109	65.9-127		11.3		
Ethylbenzene	39.6	1.0	"	33.3	119	65.1-129		20		
m,p-Xylene	80.2	2.0	"	66.7	120	66.8-127		20		
o-Xylene	39.9	1.0	"	33.3	120	61.2-120		20		
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.3	101	57.9-139				
Surrogate: Toluene-d8	13.3		"	13.3	99.6	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3	99.0	80.8-120				

LCS Dup (1041503-BSD1)

Prepared & Analyzed: 04/15/11

Benzene	32.0	1.0	ug/l	33.3	96.1	60.1-131	0.685	10.9		
Toluene	36.0	1.0	"	33.3	108	65.9-127	1.21	11.3		
Ethylbenzene	39.7	1.0	"	33.3	119	65.1-129	0.227	20		
m,p-Xylene	79.7	2.0	"	66.7	120	66.8-127	0.538	20		
o-Xylene	39.1	1.0	"	33.3	117	61.2-120	1.97	20		
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.3	101	57.9-139				
Surrogate: Toluene-d8	13.4		"	13.3	100	83.1-115				
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3	99.2	80.8-120				

Summit Scientific

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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
Project Manager: Brian Dodek

Reported:
04/18/11 15:15

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 1041503 - EPA 5030 Water MS

Matrix Spike (1041503-MS1)	Source: R104070-01			Prepared & Analyzed: 04/15/11						
Benzene	30.2	1.0	ug/l	33.3	ND	90.6	52.7-130			19.3
Toluene	34.2	1.0	"	33.3	ND	102	57-127			18.7
Ethylbenzene	37.4	1.0	"	33.3	ND	112	59.2-127			20
m,p-Xylene	75.4	2.0	"	66.7	ND	113	53.2-132			20
o-Xylene	37.8	1.0	"	33.3	ND	114	56.3-117			20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.7</i>		<i>"</i>	<i>13.3</i>		<i>103</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.2</i>		<i>"</i>	<i>13.3</i>		<i>99.4</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.4</i>		<i>"</i>	<i>13.3</i>		<i>100</i>	<i>80.8-120</i>			
Matrix Spike Dup (1041503-MSD1)	Source: R104070-01			Prepared: 04/15/11		Analyzed: 04/16/11				
Benzene	29.4	1.0	ug/l	33.3	ND	88.1	52.7-130	2.75		19.3
Toluene	32.8	1.0	"	33.3	ND	98.5	57-127	3.97		18.7
Ethylbenzene	36.1	1.0	"	33.3	ND	108	59.2-127	3.51		20
m,p-Xylene	73.0	2.0	"	66.7	ND	109	53.2-132	3.21		20
o-Xylene	36.5	1.0	"	33.3	ND	109	56.3-117	3.66		20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.8</i>		<i>"</i>	<i>13.3</i>		<i>103</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.2</i>		<i>"</i>	<i>13.3</i>		<i>98.9</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.0</i>		<i>"</i>	<i>13.3</i>		<i>97.7</i>	<i>80.8-120</i>			

Summit Scientific

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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026
Project Manager: Brian Dodek

Reported:
04/18/11 15:15

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

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

February 27, 2011

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Leffler 13, 14, 23, 24-35, 35B

Enclosed are the results of analyses for samples received by Summit Scientific on 02/24/11 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 'PS', with a long horizontal flourish extending to the right.

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026.05
Project Manager: Brian Dodek

Reported:
02/27/11 15:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	R102137-01	Water	02/24/11 09:40	02/24/11 17:00
SS01	R102137-02	Soil	02/24/11 12:10	02/24/11 17:00
SS02	R102137-03	Soil	02/24/11 12:15	02/24/11 17:00
SS03	R102137-04	Soil	02/24/11 12:20	02/24/11 17:00
SS04	R102137-05	Soil	02/24/11 12:25	02/24/11 17:00

Summit Scientific

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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026.05
 Project Manager: Brian Dodek

Reported:
 02/27/11 15:58

GW01
R102137-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/24/11 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	130	1.0	ug/l	1	1022506	02/25/11	02/26/11	EPA 8260B	
Toluene	280	1.0	"	"	"	"	"	"	
Ethylbenzene	33	1.0	"	"	"	"	"	"	
Xylenes (total)	250	1.0	"	"	"	"	"	"	

Date Sampled: **02/24/11 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		118 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.0 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %	80.8-120		"	"	"	"	

Summit Scientific

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



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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026.05
Project Manager: Brian Dodek

Reported:
02/27/11 15:58

SS01
R102137-02 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **02/24/11 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1022511	02/25/11	02/25/11	8015 DRO	

Date Sampled: **02/24/11 12:10**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/24/11 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.0050	mg/kg	1	1022510	02/25/11	02/26/11	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/24/11 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		94.8 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.5 %	78.4-125		"	"	"	"	

Summit Scientific

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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026.05
Project Manager: Brian Dodek

Reported:
02/27/11 15:58

SS02
R102137-03 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **02/24/11 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1022511	02/25/11	02/25/11	8015 DRO	

Date Sampled: **02/24/11 12:15**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/24/11 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.0050	mg/kg	1	1022510	02/25/11	02/26/11	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/24/11 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		94.8 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.8 %	78.4-125		"	"	"	"	

Summit Scientific

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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026.05
Project Manager: Brian Dodek

Reported:
02/27/11 15:58

SS03
R102137-04 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **02/24/11 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1022511	02/25/11	02/26/11	8015 DRO	

Date Sampled: **02/24/11 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		108 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/24/11 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.0050	mg/kg	1	1022510	02/25/11	02/26/11	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/24/11 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		119 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		95.1 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.3 %	78.4-125		"	"	"	"	

Summit Scientific

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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026.05
Project Manager: Brian Dodek

Reported:
02/27/11 15:58

SS04
R102137-05 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **02/24/11 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1022511	02/25/11	02/26/11	8015 DRO	

Date Sampled: **02/24/11 12:25**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/24/11 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.0050	mg/kg	1	1022510	02/25/11	02/26/11	EPA 8260B	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	"	
o-Xylene	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **02/24/11 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		119 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		94.0 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	78.4-125		"	"	"	"	

Summit Scientific

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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026.05
 Project Manager: Brian Dodek

Reported:
 02/27/11 15:58

Total Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1022511 - EPA 3550A

Blank (1022511-BLK1)				Prepared & Analyzed: 02/25/11							
C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	<i>12.9</i>		<i>"</i>	<i>12.5</i>		<i>103</i>	<i>88.8-124</i>				
LCS (1022511-BS1)				Prepared & Analyzed: 02/25/11							
C10-C28 (DRO)	526	50	mg/kg	501		105	81.4-129			9.26	
LCS Dup (1022511-BSD1)				Prepared & Analyzed: 02/25/11							
C10-C28 (DRO)	523	50	mg/kg	501		104	81.4-129	0.622		9.26	
Matrix Spike (1022511-MS1)				Source: R102137-02		Prepared & Analyzed: 02/25/11					
C10-C28 (DRO)	504	50	mg/kg	501	20.6	96.5	77.8-133			8.48	
Matrix Spike Dup (1022511-MSD1)				Source: R102137-02		Prepared & Analyzed: 02/25/11					
C10-C28 (DRO)	519	50	mg/kg	501	20.6	99.5	77.8-133	2.91		8.48	

Summit Scientific

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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026.05
Project Manager: Brian Dodek

Reported:
02/27/11 15:58

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 1022506 - EPA 5030 Water MS

Blank (1022506-BLK1)

Prepared & Analyzed: 02/25/11

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>15.7</i>		<i>"</i>	<i>13.3</i>		<i>118</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>		<i>98.3</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>14.0</i>		<i>"</i>	<i>13.3</i>		<i>105</i>	<i>80.8-120</i>			

Blank (1022506-BLK2)

Prepared & Analyzed: 02/25/11

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>15.5</i>		<i>"</i>	<i>13.3</i>		<i>116</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>		<i>98.5</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>14.2</i>		<i>"</i>	<i>13.3</i>		<i>106</i>	<i>80.8-120</i>			

LCS (1022506-BS1)

Prepared & Analyzed: 02/25/11

Benzene	26.0	1.0	ug/l	33.3		78.0	60.1-131		10.9	
Toluene	27.6	1.0	"	33.3		82.9	65.9-127		11.3	
Ethylbenzene	28.8	1.0	"	33.3		86.4	65.1-129		20	
m,p-Xylene	58.9	2.0	"	66.7		88.4	66.8-127		20	
o-Xylene	31.0	1.0	"	33.3		93.2	61.2-120		20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>15.9</i>		<i>"</i>	<i>13.3</i>		<i>119</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>		<i>98.1</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>14.2</i>		<i>"</i>	<i>13.3</i>		<i>106</i>	<i>80.8-120</i>			

LCS (1022506-BS2)

Prepared & Analyzed: 02/25/11

Benzene	26.1	1.0	ug/l	33.3		78.3	60.1-131		10.9	
Toluene	27.8	1.0	"	33.3		83.3	65.9-127		11.3	
Ethylbenzene	29.1	1.0	"	33.3		87.4	65.1-129		20	
m,p-Xylene	59.2	2.0	"	66.7		88.8	66.8-127		20	
o-Xylene	31.6	1.0	"	33.3		94.7	61.2-120		20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>15.9</i>		<i>"</i>	<i>13.3</i>		<i>119</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>		<i>98.6</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.9</i>		<i>"</i>	<i>13.3</i>		<i>104</i>	<i>80.8-120</i>			

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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026.05
Project Manager: Brian Dodek

Reported:
02/27/11 15:58

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 1022506 - EPA 5030 Water MS

LCS Dup (1022506-BSD1)

Prepared: 02/25/11 Analyzed: 02/26/11

Benzene	26.0	1.0	ug/l	33.3		78.1	60.1-131	0.115	10.9	
Toluene	27.8	1.0	"	33.3		83.5	65.9-127	0.757	11.3	
Ethylbenzene	29.5	1.0	"	33.3		88.6	65.1-129	2.50	20	
m,p-Xylene	60.3	2.0	"	66.7		90.5	66.8-127	2.33	20	
o-Xylene	31.8	1.0	"	33.3		95.5	61.2-120	2.51	20	
Surrogate: 1,2-Dichloroethane-d4	15.7		"	13.3		118	57.9-139			
Surrogate: Toluene-d8	12.9		"	13.3		96.8	83.1-115			
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3		105	80.8-120			

LCS Dup (1022506-BSD2)

Prepared: 02/25/11 Analyzed: 02/26/11

Benzene	26.4	1.0	ug/l	33.3		79.1	60.1-131	1.03	10.9	
Toluene	28.2	1.0	"	33.3		84.6	65.9-127	1.54	11.3	
Ethylbenzene	29.4	1.0	"	33.3		88.3	65.1-129	1.09	20	
m,p-Xylene	60.0	2.0	"	66.7		90.0	66.8-127	1.26	20	
o-Xylene	31.7	1.0	"	33.3		95.1	61.2-120	0.474	20	
Surrogate: 1,2-Dichloroethane-d4	15.8		"	13.3		119	57.9-139			
Surrogate: Toluene-d8	13.1		"	13.3		98.2	83.1-115			
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3		105	80.8-120			

Matrix Spike (1022506-MS1)

Source: R102140-01

Prepared: 02/25/11 Analyzed: 02/26/11

Benzene	46.3	1.0	ug/l	33.3	32.8	40.5	52.7-130		19.3	
Toluene	27.8	1.0	"	33.3	ND	83.5	57-127		18.7	
Ethylbenzene	33.6	1.0	"	33.3	4.57	87.1	59.2-127		20	
m,p-Xylene	72.2	2.0	"	66.7	12.2	90.0	53.2-132		20	
o-Xylene	31.2	1.0	"	33.3	ND	93.7	56.3-117		20	
Surrogate: 1,2-Dichloroethane-d4	16.1		"	13.3		121	57.9-139			
Surrogate: Toluene-d8	13.1		"	13.3		98.5	83.1-115			
Surrogate: 4-Bromofluorobenzene	14.4		"	13.3		108	80.8-120			

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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026.05
Project Manager: Brian Dodek

Reported:
02/27/11 15:58

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 1022506 - EPA 5030 Water MS

Matrix Spike (1022506-MS2)	Source: R102140-02			Prepared: 02/25/11		Analyzed: 02/26/11				
Benzene	25.8	1.0	ug/l	33.3	ND	77.3	52.7-130			19.3
Toluene	27.4	1.0	"	33.3	ND	82.1	57-127			18.7
Ethylbenzene	28.5	1.0	"	33.3	ND	85.5	59.2-127			20
m,p-Xylene	58.0	2.0	"	66.7	ND	87.1	53.2-132			20
o-Xylene	30.6	1.0	"	33.3	ND	91.9	56.3-117			20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>15.9</i>		<i>"</i>	<i>13.3</i>		<i>119</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>		<i>98.5</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>14.4</i>		<i>"</i>	<i>13.3</i>		<i>108</i>	<i>80.8-120</i>			

Matrix Spike Dup (1022506-MSD1)	Source: R102140-01			Prepared: 02/25/11		Analyzed: 02/26/11				
Benzene	56.9	1.0	ug/l	33.3	32.8	72.2	52.7-130	20.5		19.3
Toluene	27.4	1.0	"	33.3	ND	82.4	57-127	1.41		18.7
Ethylbenzene	32.8	1.0	"	33.3	4.57	84.7	59.2-127	2.47		20
m,p-Xylene	67.9	2.0	"	66.7	12.2	83.5	53.2-132	6.17		20
o-Xylene	30.9	1.0	"	33.3	ND	92.8	56.3-117	0.933		20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>16.0</i>		<i>"</i>	<i>13.3</i>		<i>120</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.3</i>		<i>"</i>	<i>13.3</i>		<i>99.8</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>14.7</i>		<i>"</i>	<i>13.3</i>		<i>110</i>	<i>80.8-120</i>			

Matrix Spike Dup (1022506-MSD2)	Source: R102140-02			Prepared: 02/25/11		Analyzed: 02/26/11				
Benzene	26.1	1.0	ug/l	33.3	ND	78.4	52.7-130	1.43		19.3
Toluene	27.8	1.0	"	33.3	ND	83.5	57-127	1.78		18.7
Ethylbenzene	29.0	1.0	"	33.3	ND	87.2	59.2-127	1.91		20
m,p-Xylene	59.3	2.0	"	66.7	ND	89.0	53.2-132	2.20		20
o-Xylene	31.4	1.0	"	33.3	ND	94.1	56.3-117	2.39		20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>15.9</i>		<i>"</i>	<i>13.3</i>		<i>119</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.2</i>		<i>"</i>	<i>13.3</i>		<i>98.9</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>14.4</i>		<i>"</i>	<i>13.3</i>		<i>108</i>	<i>80.8-120</i>			

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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026.05
Project Manager: Brian Dodek

Reported:
02/27/11 15:58

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 1022510 - EPA 5030 Soil MS

Blank (1022510-BLK1)

Prepared: 02/25/11 Analyzed: 02/26/11

Naphthalene	ND	0.0050	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
m,p-Xylene	ND	0.010	"							
o-Xylene	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0424</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>67.4-143</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0378</i>		<i>"</i>	<i>0.0400</i>		<i>94.4</i>	<i>77.3-114</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0387</i>		<i>"</i>	<i>0.0400</i>		<i>96.8</i>	<i>78.4-125</i>			

LCS (1022510-BS1)

Prepared: 02/25/11 Analyzed: 02/26/11

Naphthalene	ND	0.0050	mg/kg				67.8-151		20	
Benzene	0.0798	0.0050	"	0.100		79.8	61-139		11.1	
Toluene	0.0789	0.0050	"	0.100		78.9	64-132		10.9	
Ethylbenzene	0.0972	0.0050	"	0.100		97.2	68.7-135		20	
m,p-Xylene	0.190	0.010	"	0.200		95.2	70.4-129		20	
o-Xylene	0.0930	0.0050	"	0.100		93.0	66.9-126		20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0442</i>		<i>"</i>	<i>0.0400</i>		<i>111</i>	<i>67.4-143</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0377</i>		<i>"</i>	<i>0.0400</i>		<i>94.4</i>	<i>77.3-114</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0374</i>		<i>"</i>	<i>0.0400</i>		<i>93.4</i>	<i>78.4-125</i>			

Matrix Spike (1022510-MS1)

Source: R102137-02

Prepared: 02/25/11 Analyzed: 02/26/11

Naphthalene	ND	0.0050	mg/kg		0.00		26.4-144		20	
Benzene	0.0867	0.0050	"	0.100	0.00	86.7	42.9-137		17.9	
Toluene	0.0874	0.0050	"	0.100	0.00	87.4	42.6-130		11.9	
Ethylbenzene	0.105	0.0050	"	0.100	0.00	105	39-133		20	
m,p-Xylene	0.204	0.010	"	0.200	0.00	102	34.7-134		20	
o-Xylene	0.101	0.0050	"	0.100	0.00	101	41.3-126		20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0476</i>		<i>"</i>	<i>0.0400</i>		<i>119</i>	<i>67.4-143</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0384</i>		<i>"</i>	<i>0.0400</i>		<i>96.0</i>	<i>77.3-114</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0364</i>		<i>"</i>	<i>0.0400</i>		<i>91.0</i>	<i>78.4-125</i>			

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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026.05
 Project Manager: Brian Dodek

Reported:
 02/27/11 15:58

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 1022510 - EPA 5030 Soil MS

Matrix Spike Dup (1022510-MSD1)	Source: R102137-02			Prepared: 02/25/11	Analyzed: 02/26/11						
Naphthalene	ND	0.0050	mg/kg	0.00	0.00	26.4-144				20	
Benzene	0.0964	0.0050	"	0.100	0.00	96.4	42.9-137	10.6		17.9	
Toluene	0.0966	0.0050	"	0.100	0.00	96.6	42.6-130	9.91		11.9	
Ethylbenzene	0.118	0.0050	"	0.100	0.00	118	39-133	11.8		20	
m,p-Xylene	0.229	0.010	"	0.200	0.00	115	34.7-134	11.4		20	
o-Xylene	0.113	0.0050	"	0.100	0.00	113	41.3-126	11.6		20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0479</i>		<i>"</i>	<i>0.0400</i>		<i>120</i>	<i>67.4-143</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0388</i>		<i>"</i>	<i>0.0400</i>		<i>97.0</i>	<i>77.3-114</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0383</i>		<i>"</i>	<i>0.0400</i>		<i>95.8</i>	<i>78.4-125</i>				

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

Project: PDC - Leffler 13, 14, 23, 24-35, 35B

Project Number: 0188-11026.05
Project Manager: Brian Dodek

Reported:
02/27/11 15:58

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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