

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.374.5933 - fax

February 12, 2009

John Peterson
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: PDC - Miller 21-31

Enclosed are the results of analyses for samples received by Summit Scientific on 02/04/09 17:49. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'BS' with a long, sweeping horizontal line extending to the right.

Ben Shrewsbury
Vice President / Laboratory Director

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

Project: PDC - Miller 21-31

Project Number: PDC09005
Project Manager: John Peterson

Reported:
02/12/09 08:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@24'	R902016-01	Soil	02/04/09 15:55	02/04/09 17:49
N01@12'	R902016-02	Soil	02/04/09 16:09	02/04/09 17:49
E01@12'	R902016-03	Soil	02/04/09 15:46	02/04/09 17:49
S01@12'	R902016-04	Soil	02/04/09 15:41	02/04/09 17:49
W01@12'	R902016-05	Soil	02/04/09 15:00	02/04/09 17:49

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Summit Scientific

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

Page of

Client: LT Environmental, Inc.

Address: 4600 West 60th Avenue

Project Manager: John Peterson

City/State/Zip: Arvada, CO 80003

E-Mail: jpeterston@ltenv.com

Phone: (303) 433-9788

Fax: (303) 433-1432

Project Name: ~~Pete~~ Miller 21-31

Sampler Name:

Asker Weinberg

Project Number:

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)	Total Carbon Chain	
Bole 24'	2/4/09	15:55	1		X								
Nole 24'		16:04											
Bole 24'		15:46											
Soile 24'		15:41											
Wole 24'		15:00											
Relinquished by:	Date/Time:	Received by:			Date/Time:	Turn Around Time (Check)			Notes:				
Con	2/4/09 17:49	MS 2/4/9			1749	<input checked="" type="checkbox"/> 72 Hours <input checked="" type="checkbox"/> Same Day <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours			Run non-19 Lit 3/4/09				
Relinquished by:	Date/Time:	Received by:			Date/Time:	Sample Integrity:			Temperature Upon Receipt:				
						Integrity: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			40				

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

Project: PDC - Miller 21-31
Project Number: PDC09005
Project Manager: John Peterson

Reported:
02/12/09 08:18

B01@24'
R902016-01 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: 02/04/09 15:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (GRO)	ND	50	mg/kg	1	9020407	02/04/09	02/05/09	8015 Full Carbon Chain	
C10-C28 (DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	
C6-C36 TPH	ND	50	"	"	"	"	"	"	

Date Sampled: 02/04/09 15:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		105 %	77.7-123		"	"	"	"	
Surrogate: Trifluorotoluene		115 %	73.9-120		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 02/04/09 15:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	5.0	ug/kg	1	9021107	02/11/09	02/11/09	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	

Date Sampled: 02/04/09 15:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		98.2 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	85.3-109		"	"	"	"	

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Arvada CO, 80003

Project: PDC - Miller 21-31

Project Number: PDC09005
Project Manager: John Peterson

Reported:
02/12/09 08:18

N01@12'
R902016-02 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **02/04/09 16:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (GRO)	ND	50	mg/kg	1	9020407	02/04/09	02/05/09	8015 Full Carbon Chain	
C10-C28 (DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	
C6-C36 TPH	ND	50	"	"	"	"	"	"	

Date Sampled: **02/04/09 16:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		104 %	77.7-123		"	"	"	"	
Surrogate: Trifluorotoluene		114 %	73.9-120		"	"	"	"	

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Project: PDC - Miller 21-31

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Reported:
02/12/09 08:18

E01 @ 12'
R902016-03 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: 02/04/09 15:46

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (GRO)	ND	50	mg/kg	1	9020407	02/04/09	02/05/09	8015 Full Carbon Chain	
C10-C28 (DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	
C6-C36 TPH	ND	50	"	"	"	"	"	"	

Date Sampled: 02/04/09 15:46

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		104 %	77.7-123		"	"	"	"	
Surrogate: Trifluorotoluene		114 %	73.9-120		"	"	"	"	

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4600 West 60th Avenue
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Project: PDC - Miller 21-31

Project Number: PDC09005
Project Manager: John Peterson

Reported:
02/12/09 08:18

S01@12'
R902016-04 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **02/04/09 15:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (GRO)	ND	50	mg/kg	1	9020407	02/04/09	02/05/09	8015 Full Carbon Chain	
C10-C28 (DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	
C6-C36 TPH	ND	50	"	"	"	"	"	"	

Date Sampled: **02/04/09 15:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		103 %	77.7-123		"	"	"	"	
Surrogate: Trifluorotoluene		116 %	73.9-120		"	"	"	"	

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4600 West 60th Avenue
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Project: PDC - Miller 21-31

Project Number: PDC09005
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Reported:
02/12/09 08:18

W01@12'
R902016-05 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **02/04/09 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (GRO)	ND	50	mg/kg	1	9020407	02/04/09	02/05/09	8015 Full Carbon Chain	
C10-C28 (DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	
C6-C36 TPH	ND	50	"	"	"	"	"	"	

Date Sampled: **02/04/09 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		104 %	77.7-123		"	"	"	"	
Surrogate: Trifluorotoluene		115 %	73.9-120		"	"	"	"	

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Project: PDC - Miller 21-31
Project Number: PDC09005
Project Manager: John Peterson

Reported:
02/12/09 08:18

Total 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 9020407 - EPA 3550A

Blank (9020407-BLK1)

Prepared: 02/04/09 Analyzed: 02/05/09

C6-C10 (GRO)	ND	50	mg/kg
C10-C28 (DRO)	ND	50	"
C28-C36 (ORO)	ND	50	"
C6-C36 TPH	ND	50	"

LCS (9020407-BS1)

Prepared: 02/04/09 Analyzed: 02/05/09

C10-C28 (DRO)	601	50	mg/kg	500	120	83.3-127
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LCS (9020407-BS2)

Prepared: 02/04/09 Analyzed: 02/05/09

C6-C10 (GRO)	502	50	mg/kg	519	96.7	70-130
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LCS Dup (9020407-BSD1)

Prepared: 02/04/09 Analyzed: 02/05/09

C10-C28 (DRO)	522	50	mg/kg	500	104	83.3-127	14.1	15
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LCS Dup (9020407-BSD2)

Prepared: 02/04/09 Analyzed: 02/05/09

C6-C10 (GRO)	526	50	mg/kg	519	101	70-130	4.67	20
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Matrix Spike (9020407-MS1)

Source: R902012-01

Prepared: 02/04/09 Analyzed: 02/05/09

C10-C28 (DRO)	656	50	mg/kg	500	220	87.2	75.8-126
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Matrix Spike (9020407-MS2)

Source: R902012-01

Prepared: 02/04/09 Analyzed: 02/05/09

C6-C10 (GRO)	524	50	mg/kg	519	ND	101	70-130
C10-C28 (DRO)	105	50	"	220			75.8-126

Matrix Spike Dup (9020407-MSD1)

Source: R902012-01

Prepared: 02/04/09 Analyzed: 02/05/09

C10-C28 (DRO)	649	50	mg/kg	500	220	85.8	75.8-126	1.07	13.6
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Matrix Spike Dup (9020407-MSD2)

Source: R902012-01

Prepared: 02/04/09 Analyzed: 02/05/09

C6-C10 (GRO)	515	50	mg/kg	519	ND	99.2	70-130	1.73	20
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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 9021107 - EPA 5030 Soil MS

Blank (9021107-BLK1)

Prepared & Analyzed: 02/11/09

Benzene	ND	5.0	ug/kg							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
Xylenes (total)	ND	5.0	"							
Surrogate: 1,2-Dichloroethane-d4	42.5		"	40.0		106	77.3-121			
Surrogate: Toluene-d8	38.4		"	40.0		96.0	91.4-107			
Surrogate: 4-Bromofluorobenzene	39.6		"	40.0		99.0	85.3-109			

LCS (9021107-BS1)

Prepared & Analyzed: 02/11/09

Benzene	70.7	5.0	ug/kg	100		70.7	70-114			
Toluene	66.7	5.0	"	100		66.7	72.7-116			
Surrogate: 1,2-Dichloroethane-d4	43.4		"	40.0		108	77.3-121			
Surrogate: Toluene-d8	38.8		"	40.0		97.0	91.4-107			
Surrogate: 4-Bromofluorobenzene	39.1		"	40.0		97.8	85.3-109			

LCS Dup (9021107-BSD1)

Prepared & Analyzed: 02/11/09

Benzene	73.2	5.0	ug/kg	100		73.2	70-114	3.47	8.14	
Toluene	69.9	5.0	"	100		69.9	72.7-116	4.69	7.88	
Surrogate: 1,2-Dichloroethane-d4	44.6		"	40.0		112	77.3-121			
Surrogate: Toluene-d8	40.6		"	40.0		102	91.4-107			
Surrogate: 4-Bromofluorobenzene	39.7		"	40.0		99.2	85.3-109			

Matrix Spike (9021107-MS1)

Source: R902016-01

Prepared & Analyzed: 02/11/09

Benzene	82.7	5.0	ug/kg	100	ND	82.7	66.8-117			
Toluene	72.9	5.0	"	100	ND	72.9	71.5-117			
Surrogate: 1,2-Dichloroethane-d4	44.2		"	40.0		110	77.3-121			
Surrogate: Toluene-d8	39.3		"	40.0		98.2	91.4-107			
Surrogate: 4-Bromofluorobenzene	39.2		"	40.0		98.0	85.3-109			

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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 9021107 - EPA 5030 Soil MS

Matrix Spike Dup (9021107-MSD1)		Source: R902016-01			Prepared & Analyzed: 02/11/09					
Benzene	75.5	5.0	ug/kg	100	ND	75.5	66.8-117	9.10	17.8	
Toluene	70.3	5.0	"	100	ND	70.3	71.5-117	3.63	14.4	
Surrogate: 1,2-Dichloroethane-d4	47.1		"	40.0		118	77.3-121			
Surrogate: Toluene-d8	40.0		"	40.0		100	91.4-107			
Surrogate: 4-Bromofluorobenzene	42.1		"	40.0		105	85.3-109			

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Project: PDC - Miller 21-31

Project Number: PDC09005
Project Manager: John Peterson

Reported:
02/12/09 08:18

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

