



Encana Oil & Gas (USA) Inc.
370 17th Street, Suite 1700
Denver, CO 80202
Phone: (303) 623-2300
Fax: (303) 623-2400
www.encana.com

February 7, 2012

Mr. Bob Chesson
Department of Natural Resources
Colorado Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801
Denver, Colorado 80203-2136

**RE: Remediation Activity Summary Report
Miller 1, 2-17 Tank Battery
API 05-123-16647
SENE Section 17, T2N R67W 6PM
40.141161, -104.908313
Weld County, Colorado**

Dear Mr. Chesson:

Attached is the Remediation Activity Summary Report for the Miller 1, 2-17 Tank Battery. This report details the monitoring activities conducted at the site. Please contact the Encana Oil & Gas Environmental Department at (303) 774-3962 if you have any questions or require additional information.

Sincerely,

Matthew Harrison
Environmental Coordinator
Encana Oil & Gas (USA) Inc.

Attachments:

Remediation Activity Summary Report – Miller 1,2-17 Tank Battery



February 7, 2012

Mr. Matthew Harrison
Environmental Coordinator
Encana Oil & Gas (USA) Inc.
3601 Stagecoach Road North
Longmont, Colorado 80504

**RE: Remediation Activity Summary Report
Encana Oil & Gas (USA) Inc.
Miller 1, 2-17 Tank Battery
API 05-123-16647
SENE 17-T2N-R67W 6PM
40.141161/-104.908313
Weld County, Colorado**

Dear Mr. Harrison:

LT Environmental, Inc. (LTE), under the direction of Encana Oil & Gas (USA) Inc. (Encana), conducted environmental remediation and sampling activities following the identification of petroleum hydrocarbon impact in soil at the Miller 1, 2-17 Tank Battery (Site). The Site is located 3/10 of a mile southwest of the intersection of County Road (CR) 22 and CR 17, Weld County, Colorado (Figure 1).

Encana contractors excavated impacted soil, which was transported for disposal to Denver Regional Landfill in Erie, Colorado. The total extent of the excavation was approximately 40 feet east-west by 45 feet north-south to a depth of 10 feet below ground surface (bgs). Approximately 650 cubic yards of impacted soil was excavated and disposed of accordingly. Clean soil was brought in to backfill the excavation and an amendment was applied to impacted groundwater.

On December 7, 9, and 12, 2011, LTE personnel were on site to oversee excavation activities, field screen soils, document site activities, conduct health and safety monitoring, apply groundwater amendment and collect confirmation samples for laboratory analysis. During remediation activities, soil staining was observed from ground surface to 9 feet bgs. Soil samples were collected from the impacted interval along the sidewalls and floor of the excavation. Each sample was field screened for volatile organic compounds with a photo-ionization detector to determine if additional excavation was required. Once field screening indicated impacted soil had been excavated, confirmation samples were collected and submitted to an analytical laboratory.

Ten composite soil samples and one groundwater sample were collected from the excavation sidewalls and floor (Figure 2) and then submitted to Summit Scientific of Golden, Colorado. Soil and groundwater samples were submitted for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency (EPA) Method



8260B. Soil samples were also submitted for analysis of total petroleum hydrocarbons (TPH) as total volatile hydrocarbons-gasoline range organics (GRO) by EPA Modified Method 8260B and total extractable hydrocarbons-diesel range organics (DRO) by EPA Modified Method 8015.

The Colorado Oil and Gas Conservation Commission (COGCC) cleanup standards for BTEX in soil are 0.17 milligrams per kilogram (mg/kg), 85 mg/kg, 100 mg/kg, and 175 mg/kg, respectively. The COGCC standard for TPH in soil is 500 mg/kg.

Soil analytical results indicated samples SS03, SS04, and FS01 exceeded the COGCC standard for TPH at concentrations of 2,400 mg/kg, 670 mg/kg, and 1,010 mg/kg, respectively. Following receipt of soil analytical results indicating exceedance of cleanup standards, additional excavation was conducted to the north to remove remaining impacted soil. Further excavation was also conducted at the base of the excavation until the static groundwater level was reached and all remaining impacted and unsaturated soil was removed. Additional sidewall point of compliance samples were collected, indicating impacted soil exceeding applicable cleanup standards had been removed. Prior to backfilling the excavation, a groundwater amendment was applied to the base of the excavation to mitigate any recalcitrant petroleum hydrocarbon impact in the saturated soil zone. All other samples were in compliance with the COGCC standards. The soil analytical results are summarized in Table 1. The laboratory analytical report is included in Attachment 1.

The Colorado Department of Public Health and Environment (CDPHE) Water Quality Control Commission (WQCC) has established Regulation 41 (Reg 41) - Basic Standards for Ground Water at 5.0 micrograms per liter ($\mu\text{g/L}$) for benzene, 560 $\mu\text{g/L}$ for toluene, 700 $\mu\text{g/L}$ for ethylbenzene, and 1,400 $\mu\text{g/L}$ for total xylenes.

Following excavation work, but prior to application of a groundwater amendment, grab sample GW01 was collected from the open excavation. Groundwater analytical results indicated that GW01 exceeded the CDPHE-WQCC Reg 41 for benzene and total xylenes at concentrations of 19 $\mu\text{g/L}$ and 1,700 $\mu\text{g/L}$, respectively. The groundwater analytical results are summarized in Table 2. The laboratory analytical report is included in Attachment 1.

Groundwater was observed at the Site at approximately 9 feet bgs. To reduce the potential for any further groundwater impact resulting from residual hydrocarbons, a groundwater amendment was applied to the base of the excavation after field screening measurements and confirmation sample analytical results demonstrated impacted soil was removed.

The groundwater remediation amendment applied to the excavation was comprised of activated carbon inoculated with electron acceptors (nitrate and sulfate) and nutrients (phosphorus and nitrogen) designed to biodegrade petroleum hydrocarbons. A total of 250 pounds of groundwater remediation amendment was applied to the base of the excavation. The material safety data sheet for the groundwater remediation amendment is included in Attachment 2.

Per the excavation work conducted at the Site, all soil impacted exceeding state cleanup standards has been removed from the Site. Due to the petroleum hydrocarbon impact in sample



GW01, LTE recommends post-excavation groundwater monitoring activities be conducted at the Site to document the performance of source removal activities and ensure protection of the public health and environment.

Post-excavation groundwater monitoring will be conducted quarterly with the goal of observing four consecutive quarters with analytical results in compliance with CDPHE-WQCC Reg 41. Results will be presented in subsequent monitoring reports.

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in black ink, appearing to read 'Liz Houle', written in a cursive style.

Liz Houle, E.I.T.
Staff Engineer

A handwritten signature in black ink, appearing to read 'D. Burns', written in a cursive style.

Daniel Burns
Project Manager

Attachments:

Figure 1 – Site Location Map

Figure 2 – Site Map

Table 1 – Soil Analytical Results

Table 2 – Groundwater Analytical Results

Attachment 1 – Laboratory Analytical Reports

Attachment 2 – Material Safety Data Sheet

FIGURES

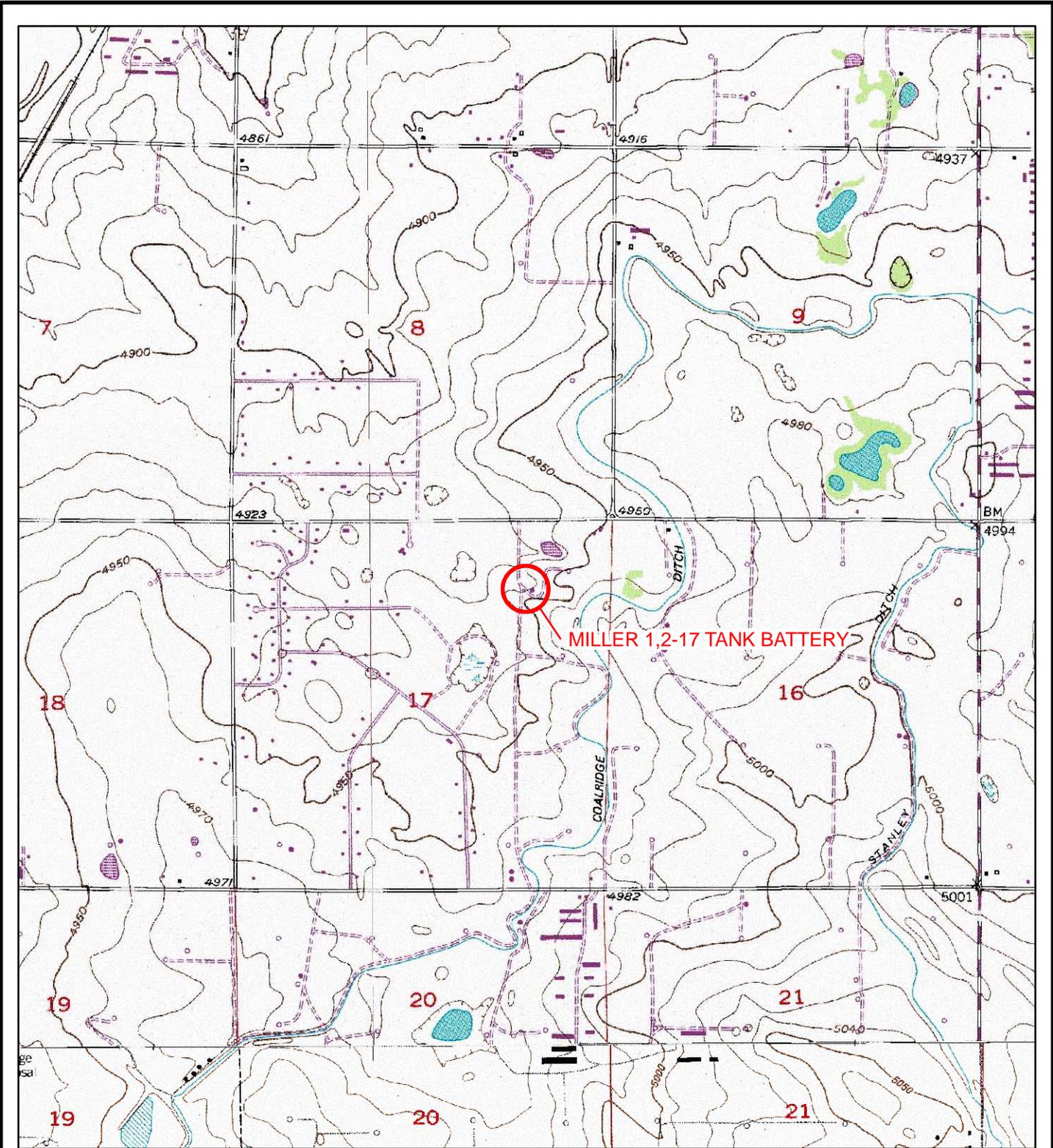


IMAGE COURTESY OF USDA/NRCS, VARIOUS DATES

LEGEND

 SITE LOCATION

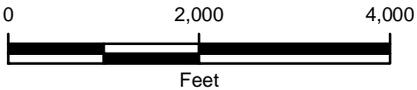


FIGURE 1
SITE LOCATION MAP
MILLER 1,2-17 TANK BATTERY
WELD COUNTY, COLORADO



ENCANA OIL & GAS (USA) INC.



IMAGE COURTESY OF GOOGLE EARTH, 05/04/2011

LEGEND

- SIDEWALL COMPOSITE SOIL SAMPLE
- ▲ FLOOR SOIL SAMPLE
- GROUNDWATER SAMPLE
- ✗ SUSPECTED RELEASE POINT
- ↑ ESTIMATED GROUNDWATER FLOW DIRECTION
- ▭ EXCAVATION EXTENT
- ▭ CURRENT INFRASTRUCTURE
- ▨ MACHII-ROSS INFRASTRUCTURE

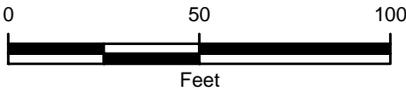


FIGURE 2
SITE MAP
 MILLER 1,2-17 TANK BATTERY
 WELD COUNTY, COLORADO
 ENCANA OIL & GAS (USA) INC.



TABLES

TABLE 1

**SOIL ANALYTICAL RESULTS
MILLER 1, 2-17 TANK BATTERY
WELD COUNTY, COLORADO
ENCANA OIL & GAS (USA) INC.**

Soil Sample	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	TPH (mg/kg)
SS01	12/7/2011	<0.0050	<0.0050	<0.0050	0.035	0.74	<50	0.74
SS02	12/7/2011	<0.0050	<0.0050	0.014	0.26	43	60	103
SS03	12/7/2011	0.10	0.040	2.0	41	1,400	1,000	2,400
SS04	12/7/2011	<0.0050	<0.0050	0.095	3.3	240	430	670
SS05	12/7/2011	<0.0050	<0.0050	0.0086	0.21	39	<50	39
SS06	12/9/2011	<0.0050	<0.0050	0.20	4.6	85	<50	85
SS07	12/9/2011	<0.0050	<0.0050	0.75	13	250	210	460
SS08	12/12/2011	<0.0050	<0.0050	0.030	0.77	18	80	98
SS09	12/12/2011	<0.0050	<0.0050	0.14	6.9	130	98	228
FS01	12/7/2011	0.034	<0.0050	2.2	26	630	380	1,010
COGCC Table 910-1		0.17	85	100	175	--	--	500

NOTES:

mg/kg - milligrams per kilogram

GRO - gasoline range organics analyzed by EPA Method 8260B

DRO - diesel range organics analyzed by EPA Modified Method 8015

TPH - total petroleum hydrocarbons

COGCC - Colorado Oil and Gas Conservation Commission

BOLD - indicates result exceeds the applicable standard

< - indicates result is less than the stated laboratory reporting limit

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B

TPH is sum of GRO and DRO

TABLE 2

GROUNDWATER ANALYTICAL RESULTS
MILLER 1, 2-17 TANK BATTERY
WELD COUNTY, COLORADO
ENCANA OIL & GAS (USA) INC.

Sample ID	Date	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethylbenzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)
GW01	12/12/2011	19	10	4.7	1,700
CDPHE WQCC Reg 41		5	560	700	1,400

NOTES:

$\mu\text{g/L}$ - micrograms per liter

BOLD - indicates result exceeds the applicable standard

CDPHE WQCC Reg 41 - Colorado Department of Public Health and Environment - Water Quality

Control Commission Regulation 41 covering Basic Standards for Ground Water

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B

ATTACHMENT 1
LABORATORY ANALYTICAL REPORTS

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 08, 2011

Daniel Burns
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: ENC - Miller 1,2-17

Enclosed are the results of analyses for samples received by Summit Scientific on 12/07/11 17:00. 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: ENC - Miller 1,2-17

Project Number: 0334-
Project Manager: Daniel Burns

Reported:
12/08/11 07:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	R112032-01	Soil	12/07/11 13:00	12/07/11 17:00
SS02	R112032-02	Soil	12/07/11 13:05	12/07/11 17:00
SS03	R112032-03	Soil	12/07/11 13:10	12/07/11 17:00
SS04	R112032-04	Soil	12/07/11 13:45	12/07/11 17:00
SS05	R112032-05	Soil	12/07/11 13:50	12/07/11 17:00
FS01@9'	R112032-06	Soil	12/07/11 13:15	12/07/11 17:00

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: ENC - Miller 1,2-17

Project Number: 0334-
Project Manager: Daniel Burns

Reported:
12/08/11 07:19

Summit Scientific R112032

S₂

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

Page 1 of 1

Client: LT Environmental, Inc. Project Manager: Daniel Burns
Address: 4600 West 60th Avenue E-Mail: dburns@ltenv.com
City/State/Zip: Arvada, CO 80003 Project Name: Miller 1,2-17
Phone: (303) 433-9788 Fax: (303) 433-1432 Project Number: 0334-
Sampler Name: 15

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	ORO	GBTEX	BTEX						
S501	12/7/11	1300	1		X			X													
S502		1305			X			X													
S503		1310			X			X													
S504		1315			X			X													
S505		1350			X			X													
FS01@9'		1315			X			X													
<div style="display: flex; justify-content: space-between;"> <div> <p>Relinquished by: <u>DB</u> Date/Time: 12/7/11 1545</p> <p>Relinquished by: <u>DB</u> Date/Time: 12/7/11 1545</p> <p>Relinquished by: _____ Date/Time: _____</p> </div> <div> <p>Received by: _____ Date/Time: _____</p> <p>Received by: _____ Date/Time: _____</p> <p>Received in Lab by: _____ Date/Time: _____</p> </div> <div> <p>Turn Around Time (Check): <input checked="" type="checkbox"/> 72 Hours <input type="checkbox"/> Standard</p> <p><input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours</p> </div> <div> <p>Sample Integrity: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Temperature Upon Receipt: <u>5.2</u></p> </div> </div>																					

www.s2scientific.com



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

Project: ENC - Miller 1,2-17

Project Number: 0334-
Project Manager: Daniel Burns

Reported:
12/08/11 07:19

SS01
R112032-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/07/11 13:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1120708	12/07/11	12/07/11	8015 Full Carbon Chain	

Date Sampled: 12/07/11 13:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		91.4 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/07/11 13:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1120707	12/07/11	12/07/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.035	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.74	0.50	"	"	"	"	"	"	

Date Sampled: 12/07/11 13:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		102 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.4 %	78.4-125		"	"	"	"	

Summit Scientific

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

Project: ENC - Miller 1,2-17

Project Number: 0334-
Project Manager: Daniel Burns

Reported:
12/08/11 07:19

SS02
R112032-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/07/11 13:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	60	50	mg/kg	1	1120708	12/07/11	12/07/11	8015 Full Carbon Chain	

Date Sampled: 12/07/11 13:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		89.8 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/07/11 13:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1120707	12/07/11	12/07/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.014	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.26	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	43	0.50	"	"	"	"	"	"	

Date Sampled: 12/07/11 13:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		98.1 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	78.4-125		"	"	"	"	

Summit Scientific

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

Project: ENC - Miller 1,2-17

Project Number: 0334-
Project Manager: Daniel Burns

Reported:
12/08/11 07:19

SS03
R112032-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/07/11 13:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	1000	50	mg/kg	1	1120708	12/07/11	12/07/11	8015 Full Carbon Chain	

Date Sampled: 12/07/11 13:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		95.3 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/07/11 13:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.10	0.0050	mg/kg	1	1120707	12/07/11	12/07/11	EPA 8260B	
Toluene	0.040	0.0050	"	"	"	"	"	"	
Ethylbenzene	2.0	0.050	"	10	"	"	12/07/11	"	
Xylenes (total)	41	0.050	"	"	"	"	12/07/11	"	
Gasoline Range Hydrocarbons	1400	5.0	"	"	"	"	"	"	

Date Sampled: 12/07/11 13:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		112 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.2 %	78.4-125		"	"	"	"	

Summit Scientific

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

Project: ENC - Miller 1,2-17

Project Number: 0334-
Project Manager: Daniel Burns

Reported:
12/08/11 07:19

SS04
R112032-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/07/11 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	430	50	mg/kg	1	1120708	12/07/11	12/07/11	8015 Full Carbon Chain	

Date Sampled: 12/07/11 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		99.7 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/07/11 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1120707	12/07/11	12/07/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.095	0.0050	"	"	"	"	"	"	
Xylenes (total)	3.3	0.050	"	10	"	"	"	"	
Gasoline Range Hydrocarbons	240	5.0	"	"	"	"	12/07/11	"	

Date Sampled: 12/07/11 13:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	67.4-143		"	"	12/07/11	"	
Surrogate: Toluene-d8		105 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	78.4-125		"	"	"	"	

Summit Scientific

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



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

Project: ENC - Miller 1,2-17

Project Number: 0334-
Project Manager: Daniel Burns

Reported:
12/08/11 07:19

SS05
R112032-05 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/07/11 13:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1120708	12/07/11	12/07/11	8015 Full Carbon Chain	

Date Sampled: 12/07/11 13:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		96.4 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/07/11 13:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1120707	12/07/11	12/07/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.0086	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.21	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	39	0.50	"	"	"	"	"	"	

Date Sampled: 12/07/11 13:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		114 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.0 %	78.4-125		"	"	"	"	

Summit Scientific

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



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

Project: ENC - Miller 1,2-17

Project Number: 0334-
Project Manager: Daniel Burns

Reported:
12/08/11 07:19

FS01@9'
R112032-06 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/07/11 13:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	380	50	mg/kg	1	1120708	12/07/11	12/07/11	8015 Full Carbon Chain	

Date Sampled: 12/07/11 13:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.4 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/07/11 13:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.034	0.0050	mg/kg	1	1120707	12/07/11	12/07/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	2.2	0.050	"	10	"	"	12/07/11	"	
Xylenes (total)	26	0.050	"	"	"	"	"	"	E
Gasoline Range Hydrocarbons	630	5.0	"	"	"	"	"	"	

Date Sampled: 12/07/11 13:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.9 %	67.4-143		"	"	12/07/11	"	
Surrogate: Toluene-d8		102 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	78.4-125		"	"	"	"	

Summit Scientific

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

Project: ENC - Miller 1,2-17

Project Number: 0334-
 Project Manager: Daniel Burns

Reported:
 12/08/11 07:19

Extractable 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 1120708 - EPA 3550A

Blank (1120708-BLK1)				Prepared & Analyzed: 12/07/11							
C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	12.4		"	12.5		99.0	88.8-124				
LCS (1120708-BS1)				Prepared & Analyzed: 12/07/11							
C10-C28 (DRO)	566	50	mg/kg	501		113	81.4-129			9.26	
LCS Dup (1120708-BSD1)				Prepared & Analyzed: 12/07/11							
C10-C28 (DRO)	552	50	mg/kg	501		110	81.4-129	2.39		9.26	
Matrix Spike (1120708-MS1)				Source: R112032-01		Prepared: 12/07/11 Analyzed: 12/08/11					
C10-C28 (DRO)	582	50	mg/kg	501	24.9	111	77.8-133			8.48	
Matrix Spike Dup (1120708-MSD1)				Source: R112032-01		Prepared: 12/07/11 Analyzed: 12/08/11					
C10-C28 (DRO)	550	50	mg/kg	501	24.9	105	77.8-133	5.66		8.48	

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

Project: ENC - Miller 1,2-17

Project Number: 0334-
Project Manager: Daniel Burns

Reported:
12/08/11 07:19

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 1120707 - EPA 5030 Soil MS

Blank (1120707-BLK1)

Prepared: 12/07/11 Analyzed: 12/08/11

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0347</i>		<i>"</i>	<i>0.0400</i>		<i>86.8</i>	<i>67.4-143</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0391</i>		<i>"</i>	<i>0.0400</i>		<i>97.6</i>	<i>77.3-114</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0375</i>		<i>"</i>	<i>0.0400</i>		<i>93.7</i>	<i>78.4-125</i>			

LCS (1120707-BS1)

Prepared: 12/07/11 Analyzed: 12/08/11

Benzene	0.0809	0.0050	mg/kg	0.100		80.9	61-139	4.46	11.1	
Toluene	0.0896	0.0050	"	0.100		89.6	64-132	1.11	10.9	
Ethylbenzene	0.0897	0.0050	"	0.100		89.7	68.7-135	1.31	20	
m,p-Xylene	0.186	0.010	"	0.200		93.0	70.4-129	1.69	20	
o-Xylene	0.0909	0.0050	"	0.100		90.9	66.9-126	1.86	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0332</i>		<i>"</i>	<i>0.0400</i>		<i>82.9</i>	<i>67.4-143</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0389</i>		<i>"</i>	<i>0.0400</i>		<i>97.4</i>	<i>77.3-114</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0379</i>		<i>"</i>	<i>0.0400</i>		<i>94.6</i>	<i>78.4-125</i>			

LCS Dup (1120707-BSD1)

Prepared: 12/07/11 Analyzed: 12/08/11

Benzene	0.0846	0.0050	mg/kg	0.100		84.6	61-139	4.46	11.1	
Toluene	0.0886	0.0050	"	0.100		88.6	64-132	1.11	10.9	
Ethylbenzene	0.0886	0.0050	"	0.100		88.6	68.7-135	1.31	20	
m,p-Xylene	0.183	0.010	"	0.200		91.5	70.4-129	1.69	20	
o-Xylene	0.0892	0.0050	"	0.100		89.2	66.9-126	1.86	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0347</i>		<i>"</i>	<i>0.0400</i>		<i>86.8</i>	<i>67.4-143</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0391</i>		<i>"</i>	<i>0.0400</i>		<i>97.7</i>	<i>77.3-114</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0367</i>		<i>"</i>	<i>0.0400</i>		<i>91.7</i>	<i>78.4-125</i>			

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

Project: ENC - Miller 1,2-17

Project Number: 0334-
Project Manager: Daniel Burns

Reported:
12/08/11 07:19

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 1120707 - EPA 5030 Soil MS

Matrix Spike (1120707-MS1)	Source: R112032-01			Prepared: 12/07/11		Analyzed: 12/08/11				
Benzene	0.0858	0.0050	mg/kg	0.100	ND	85.8	42.9-137	3.13	17.9	
Toluene	0.0932	0.0050	"	0.100	0.00477	88.4	42.6-130	0.646	11.9	
Ethylbenzene	0.0903	0.0050	"	0.100	ND	90.3	39-133	2.08	20	
m,p-Xylene	0.205	0.010	"	0.200	0.0285	88.2	34.7-134	2.10	20	
o-Xylene	0.0953	0.0050	"	0.100	0.00654	88.8	41.3-126	0.690	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0368</i>		<i>"</i>	<i>0.0400</i>		<i>91.9</i>	<i>67.4-143</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>98.9</i>	<i>77.3-114</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0371</i>		<i>"</i>	<i>0.0400</i>		<i>92.7</i>	<i>78.4-125</i>			

Matrix Spike Dup (1120707-MSD1)	Source: R112032-01			Prepared: 12/07/11		Analyzed: 12/08/11				
Benzene	0.0831	0.0050	mg/kg	0.100	ND	83.1	42.9-137	3.13	17.9	
Toluene	0.0926	0.0050	"	0.100	0.00477	87.8	42.6-130	0.646	11.9	
Ethylbenzene	0.0885	0.0050	"	0.100	ND	88.5	39-133	2.08	20	
m,p-Xylene	0.209	0.010	"	0.200	0.0285	90.4	34.7-134	2.10	20	
o-Xylene	0.0960	0.0050	"	0.100	0.00654	89.5	41.3-126	0.690	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0367</i>		<i>"</i>	<i>0.0400</i>		<i>91.6</i>	<i>67.4-143</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0386</i>		<i>"</i>	<i>0.0400</i>		<i>96.5</i>	<i>77.3-114</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0371</i>		<i>"</i>	<i>0.0400</i>		<i>92.7</i>	<i>78.4-125</i>			

Summit Scientific

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

Project: ENC - Miller 1,2-17

Project Number: 0334-
Project Manager: Daniel Burns

Reported:
12/08/11 07:19

Notes and Definitions

- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- 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

December 11, 2011

Daniel Burns
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: ENC - Miller 1,2-17

Enclosed are the results of analyses for samples received by Summit Scientific on 12/09/11 17:10. 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: ENC - Miller 1,2-17

Project Number: 0334-11100
Project Manager: Daniel Burns

Reported:
12/11/11 12:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS06	R112057-01	Soil	12/09/11 11:20	12/09/11 17:10
SS07	R112057-02	Soil	12/09/11 12:00	12/09/11 17:10

Summit Scientific

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

Project: ENC - Miller 1,2-17

Project Number: 0334-11100
Project Manager: Daniel Burns

Reported:
12/11/11 12:56

SS06
R112057-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/09/11 11:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1120911	12/09/11	12/09/11	8015 Full Carbon Chain	

Date Sampled: 12/09/11 11:20

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: 12/09/11 11:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1120912	12/09/11	12/10/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.20	0.050	"	10	"	"	"	"	
Xylenes (total)	4.6	0.050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	85	5.0	"	"	"	"	"	"	

Date Sampled: 12/09/11 11:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.1 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		105 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		116 %	78.4-125		"	"	"	"	

Summit Scientific

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

Project: ENC - Miller 1,2-17

Project Number: 0334-11100
Project Manager: Daniel Burns

Reported:
12/11/11 12:56

SS07
R112057-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/09/11 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	210	50	mg/kg	1	1120911	12/09/11	12/10/11	8015 Full Carbon Chain	

Date Sampled: 12/09/11 12:00

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: 12/09/11 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1120912	12/09/11	12/10/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.75	0.050	"	10	"	"	"	"	
Xylenes (total)	13	0.050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	250	5.0	"	"	"	"	"	"	

Date Sampled: 12/09/11 12:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.7 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		113 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		200 %	78.4-125		"	"	"	"	S-02

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

Project: ENC - Miller 1,2-17

Project Number: 0334-11100
Project Manager: Daniel Burns

Reported:
12/11/11 12:56

Extractable 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 1120911 - EPA 3550A

Blank (1120911-BLK1)				Prepared: 12/09/11		Analyzed: 12/10/11					
C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	12.6		"	12.5		101	88.8-124				
LCS (1120911-BS1)				Prepared: 12/09/11		Analyzed: 12/10/11					
C10-C28 (DRO)	527	50	mg/kg	501		105	81.4-129			9.26	
LCS Dup (1120911-BSD1)				Prepared: 12/09/11		Analyzed: 12/10/11					
C10-C28 (DRO)	568	50	mg/kg	501		113	81.4-129	7.31		9.26	
Matrix Spike (1120911-MS1)				Source: R112056-01		Prepared: 12/09/11		Analyzed: 12/10/11			
C10-C28 (DRO)	503	50	mg/kg	501	34.4	93.6	77.8-133			8.48	
Matrix Spike Dup (1120911-MSD1)				Source: R112056-01		Prepared: 12/09/11		Analyzed: 12/10/11			
C10-C28 (DRO)	496	50	mg/kg	501	34.4	92.2	77.8-133	1.35		8.48	

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Project: ENC - Miller 1,2-17

Project Number: 0334-11100
Project Manager: Daniel Burns

Reported:
12/11/11 12:56

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 1120912 - EPA 5030 Soil MS

Blank (1120912-BLK1)

Prepared: 12/09/11 Analyzed: 12/10/11

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0373</i>		<i>"</i>	<i>0.0400</i>		<i>93.3</i>	<i>67.4-143</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.4</i>	<i>77.3-114</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0416</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>78.4-125</i>			

LCS (1120912-BS1)

Prepared: 12/09/11 Analyzed: 12/10/11

Benzene	0.0944	0.0050	mg/kg	0.100		94.4	61-139		11.1	
Toluene	0.0886	0.0050	"	0.100		88.6	64-132		10.9	
Ethylbenzene	0.0922	0.0050	"	0.100		92.2	68.7-135		20	
m,p-Xylene	0.181	0.010	"	0.200		90.3	70.4-129		20	
o-Xylene	0.0906	0.0050	"	0.100		90.6	66.9-126		20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>67.4-143</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0402</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>77.3-114</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0391</i>		<i>"</i>	<i>0.0400</i>		<i>97.6</i>	<i>78.4-125</i>			

LCS Dup (1120912-BSD1)

Prepared: 12/09/11 Analyzed: 12/10/11

Benzene	0.0966	0.0050	mg/kg	0.100		96.6	61-139	2.29	11.1	
Toluene	0.0904	0.0050	"	0.100		90.4	64-132	2.01	10.9	
Ethylbenzene	0.0944	0.0050	"	0.100		94.4	68.7-135	2.32	20	
m,p-Xylene	0.185	0.010	"	0.200		92.6	70.4-129	2.54	20	
o-Xylene	0.0922	0.0050	"	0.100		92.2	66.9-126	1.84	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0374</i>		<i>"</i>	<i>0.0400</i>		<i>93.5</i>	<i>67.4-143</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>77.3-114</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0405</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>78.4-125</i>			

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

Project: ENC - Miller 1,2-17

Project Number: 0334-11100
Project Manager: Daniel Burns

Reported:
12/11/11 12:56

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 1120912 - EPA 5030 Soil MS

Matrix Spike (1120912-MS1)	Source: R112056-01			Prepared: 12/09/11		Analyzed: 12/10/11				
Benzene	0.101	0.0050	mg/kg	0.100	ND	101	42.9-137	1.29	17.9	
Toluene	0.0929	0.0050	"	0.100	ND	92.9	42.6-130	1.50	11.9	
Ethylbenzene	0.103	0.0050	"	0.100	ND	103	39-133	5.25	20	
m,p-Xylene	0.204	0.010	"	0.200	0.0407	81.4	34.7-134	4.78	20	
o-Xylene	0.0994	0.0050	"	0.100	0.00435	95.0	41.3-126	2.11	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0388</i>		<i>"</i>	<i>0.0400</i>		<i>97.0</i>	<i>67.4-143</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0423</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>77.3-114</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>78.4-125</i>			

Matrix Spike Dup (1120912-MSD1)	Source: R112056-01			Prepared: 12/09/11		Analyzed: 12/10/11				
Benzene	0.0994	0.0050	mg/kg	0.100	ND	99.4	42.9-137	1.29	17.9	
Toluene	0.0916	0.0050	"	0.100	ND	91.6	42.6-130	1.50	11.9	
Ethylbenzene	0.0974	0.0050	"	0.100	ND	97.4	39-133	5.25	20	
m,p-Xylene	0.194	0.010	"	0.200	0.0407	76.6	34.7-134	4.78	20	
o-Xylene	0.0973	0.0050	"	0.100	0.00435	92.9	41.3-126	2.11	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0439</i>		<i>"</i>	<i>0.0400</i>		<i>110</i>	<i>67.4-143</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0422</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>77.3-114</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0414</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>78.4-125</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: ENC - Miller 1,2-17

Project Number: 0334-11100
Project Manager: Daniel Burns

Reported:
12/11/11 12:56

Notes and Definitions

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

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

December 13, 2011

Daniel Burns
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: ENC - Miller 1,2-17

Enclosed are the results of analyses for samples received by Summit Scientific on 12/12/11 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: ENC - Miller 1,2-17

Project Number: 0334-11100
Project Manager: Daniel Burns

Reported:
12/13/11 07:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS08	R112075-01	Soil	12/12/11 10:00	12/12/11 16:55
SS09	R112075-02	Soil	12/12/11 10:05	12/12/11 16:55

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: ENC - Miller 1,2-17

Project Number: 0334-11100
Project Manager: Daniel Burns

Reported:
12/13/11 07:30

SS08
R112075-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/12/11 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	80	50	mg/kg	1	1121214	12/12/11	12/12/11	8015 Full Carbon Chain	

Date Sampled: 12/12/11 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		97.6 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/12/11 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1121213	12/12/11	12/12/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.030	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.77	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	18	0.50	"	"	"	"	"	"	

Date Sampled: 12/12/11 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.2 %	67.4-143		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.6 %	77.3-114		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	78.4-125		"	"	"	"	

Summit Scientific

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

Project: ENC - Miller 1,2-17

Project Number: 0334-11100
Project Manager: Daniel Burns

Reported:
12/13/11 07:30

SS09
R112075-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/12/11 10:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	98	50	mg/kg	1	1121214	12/12/11	12/12/11	8015 Full Carbon Chain	

Date Sampled: 12/12/11 10:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.9 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/12/11 10:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1121213	12/12/11	12/12/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.14	0.0050	"	"	"	"	"	"	
Xylenes (total)	6.9	0.050	"	10	"	"	"	"	
Gasoline Range Hydrocarbons	130	5.0	"	"	"	"	12/12/11	"	

Date Sampled: 12/12/11 10:05

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.8 %	67.4-143		"	"	12/12/11	"	
Surrogate: Toluene-d8		104 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.8 %	78.4-125		"	"	"	"	

Summit Scientific

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

Project: ENC - Miller 1,2-17

Project Number: 0334-11100
Project Manager: Daniel Burns

Reported:
12/13/11 07:30

Extractable 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 1121214 - EPA 3550A

Blank (1121214-BLK1)				Prepared & Analyzed: 12/12/11							
C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	12.8		"	12.5	102	88.8-124					
LCS (1121214-BS1)				Prepared & Analyzed: 12/12/11							
C10-C28 (DRO)	536	50	mg/kg	501	107	81.4-129				9.26	
LCS Dup (1121214-BSD1)				Prepared & Analyzed: 12/12/11							
C10-C28 (DRO)	525	50	mg/kg	501	105	81.4-129	2.16			9.26	
Matrix Spike (1121214-MS1)				Source: R112077-01		Prepared & Analyzed: 12/12/11					
C10-C28 (DRO)	511	50	mg/kg	501	ND	102	77.8-133			8.48	
Matrix Spike Dup (1121214-MSD1)				Source: R112077-01		Prepared: 12/12/11		Analyzed: 12/13/11			
C10-C28 (DRO)	520	50	mg/kg	501	ND	104	77.8-133	1.78		8.48	

Summit Scientific

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

Project: ENC - Miller 1,2-17

Project Number: 0334-11100
Project Manager: Daniel Burns

Reported:
12/13/11 07:30

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 1121213 - EPA 5030 Soil MS

Blank (1121213-BLK1)

Prepared: 12/12/11 Analyzed: 12/13/11

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0374</i>		<i>"</i>	<i>0.0400</i>		<i>93.6</i>	<i>67.4-143</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>98.0</i>	<i>77.3-114</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0372</i>		<i>"</i>	<i>0.0400</i>		<i>93.1</i>	<i>78.4-125</i>			

LCS (1121213-BS1)

Prepared: 12/12/11 Analyzed: 12/13/11

Benzene	0.0776	0.0050	mg/kg	0.100		77.6	61-139		11.1	
Toluene	0.0808	0.0050	"	0.100		80.8	64-132		10.9	
Ethylbenzene	0.0821	0.0050	"	0.100		82.1	68.7-135		20	
m,p-Xylene	0.169	0.010	"	0.200		84.4	70.4-129		20	
o-Xylene	0.0825	0.0050	"	0.100		82.5	66.9-126		20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0364</i>		<i>"</i>	<i>0.0400</i>		<i>91.1</i>	<i>67.4-143</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0391</i>		<i>"</i>	<i>0.0400</i>		<i>97.6</i>	<i>77.3-114</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0370</i>		<i>"</i>	<i>0.0400</i>		<i>92.4</i>	<i>78.4-125</i>			

LCS Dup (1121213-BSD1)

Prepared: 12/12/11 Analyzed: 12/13/11

Benzene	0.0774	0.0050	mg/kg	0.100		77.4	61-139	0.232	11.1	
Toluene	0.0806	0.0050	"	0.100		80.6	64-132	0.372	10.9	
Ethylbenzene	0.0818	0.0050	"	0.100		81.8	68.7-135	0.403	20	
m,p-Xylene	0.167	0.010	"	0.200		83.3	70.4-129	1.25	20	
o-Xylene	0.0823	0.0050	"	0.100		82.3	66.9-126	0.328	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0381</i>		<i>"</i>	<i>0.0400</i>		<i>95.2</i>	<i>67.4-143</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0389</i>		<i>"</i>	<i>0.0400</i>		<i>97.3</i>	<i>77.3-114</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0375</i>		<i>"</i>	<i>0.0400</i>		<i>93.8</i>	<i>78.4-125</i>			

Summit Scientific

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

Project: ENC - Miller 1,2-17

Project Number: 0334-11100
Project Manager: Daniel Burns

Reported:
12/13/11 07:30

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 1121213 - EPA 5030 Soil MS

Matrix Spike (1121213-MS1)

Source: R112077-01 Prepared: 12/12/11 Analyzed: 12/13/11

Benzene	0.0781	0.0050	mg/kg	0.100	ND	78.1	42.9-137		17.9	
Toluene	0.0819	0.0050	"	0.100	ND	81.9	42.6-130		11.9	
Ethylbenzene	0.0821	0.0050	"	0.100	ND	82.1	39-133		20	
m,p-Xylene	0.168	0.010	"	0.200	ND	84.1	34.7-134		20	
o-Xylene	0.0832	0.0050	"	0.100	ND	83.2	41.3-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0401		"	0.0400		100	67.4-143			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.5	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0381		"	0.0400		95.3	78.4-125			

Matrix Spike Dup (1121213-MSD1)

Source: R112077-01 Prepared: 12/12/11 Analyzed: 12/13/11

Benzene	0.0772	0.0050	mg/kg	0.100	ND	77.2	42.9-137	1.12	17.9	
Toluene	0.0808	0.0050	"	0.100	ND	80.8	42.6-130	1.36	11.9	
Ethylbenzene	0.0803	0.0050	"	0.100	ND	80.3	39-133	2.25	20	
m,p-Xylene	0.163	0.010	"	0.200	ND	81.6	34.7-134	2.97	20	
o-Xylene	0.0815	0.0050	"	0.100	ND	81.5	41.3-126	2.08	20	
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0400		101	67.4-143			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.2	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0375		"	0.0400		93.8	78.4-125			

Summit Scientific

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



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

Project: ENC - Miller 1,2-17

Project Number: 0334-11100
Project Manager: Daniel Burns

Reported:
12/13/11 07:30

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

December 15, 2011

Daniel Burns
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: ENC - Miller 1,2-17

Enclosed are the results of analyses for samples received by Summit Scientific on 12/12/11 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: ENC - Miller 1,2-17

Project Number: 0334-11100
 Project Manager: Daniel Burns

Reported:
 12/15/11 07:41

GW01
R112081-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/12/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	19	1.0	ug/l	1	1121211	12/13/11	12/14/11	EPA 8260B	
Toluene	10	1.0	"	"	"	"	"	"	
Ethylbenzene	4.7	1.0	"	"	"	"	"	"	
Xylenes (total)	1700	100	"	100	"	"	12/14/11	"	

Date Sampled: 12/12/11 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.4 %	57.9-139		"	"	12/14/11	"	
<i>Surrogate: Toluene-d8</i>		97.7 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		114 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: ENC - Miller 1,2-17

Project Number: 0334-11100
Project Manager: Daniel Burns

Reported:
12/15/11 07:41

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 1121211 - EPA 5030 Water MS

Blank (1121211-BLK1)

Prepared: 12/12/11 Analyzed: 12/13/11

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	13.0		"	13.3	97.2	83.1-115					
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3	95.2	80.8-120					

LCS (1121211-BS1)

Prepared: 12/12/11 Analyzed: 12/13/11

Benzene	47.2	1.0	ug/l	50.0	94.3	60.1-131		10.9
Toluene	47.8	1.0	"	50.0	95.6	65.9-127		11.3
Ethylbenzene	48.8	1.0	"	50.0	97.6	65.1-129		20
m,p-Xylene	96.8	2.0	"	100	96.8	66.8-127		20
o-Xylene	49.4	1.0	"	50.0	98.8	61.2-120		20
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.3	101	57.9-139		
Surrogate: Toluene-d8	13.5		"	13.3	101	83.1-115		
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3	98.6	80.8-120		

LCS Dup (1121211-BSD1)

Prepared: 12/12/11 Analyzed: 12/13/11

Benzene	47.8	1.0	ug/l	50.0	95.5	60.1-131	1.24	10.9
Toluene	47.9	1.0	"	50.0	95.8	65.9-127	0.188	11.3
Ethylbenzene	50.0	1.0	"	50.0	100	65.1-129	2.45	20
m,p-Xylene	98.8	2.0	"	100	98.8	66.8-127	1.96	20
o-Xylene	50.0	1.0	"	50.0	100	61.2-120	1.29	20
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3	101	57.9-139		
Surrogate: Toluene-d8	13.2		"	13.3	98.9	83.1-115		
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3	98.3	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: ENC - Miller 1,2-17

Project Number: 0334-11100
Project Manager: Daniel Burns

Reported:
12/15/11 07:41

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 1121211 - EPA 5030 Water MS

Matrix Spike (1121211-MS1)	Source: R112066-10			Prepared: 12/12/11	Analyzed: 12/13/11							
Benzene	49.0	1.0	ug/l	50.0	ND	98.0	52.7-130					19.3
Toluene	49.1	1.0	"	50.0	ND	98.3	57-127					18.7
Ethylbenzene	50.3	1.0	"	50.0	ND	101	59.2-127					20
m,p-Xylene	99.6	2.0	"	100	ND	99.6	53.2-132					20
o-Xylene	50.1	1.0	"	50.0	ND	100	56.3-117					20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.8</i>		<i>"</i>	<i>13.3</i>		<i>104</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>13.3</i>		<i>"</i>	<i>13.3</i>		<i>100</i>	<i>80.8-120</i>					
Matrix Spike Dup (1121211-MSD1)	Source: R112066-10			Prepared: 12/12/11	Analyzed: 12/13/11							
Benzene	47.8	1.0	ug/l	50.0	ND	95.7	52.7-130	2.37				19.3
Toluene	48.3	1.0	"	50.0	ND	96.6	57-127	1.72				18.7
Ethylbenzene	49.7	1.0	"	50.0	ND	99.4	59.2-127	1.10				20
m,p-Xylene	98.5	2.0	"	100	ND	98.5	53.2-132	1.07				20
o-Xylene	50.6	1.0	"	50.0	ND	101	56.3-117	0.992				20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.6</i>		<i>"</i>	<i>13.3</i>		<i>102</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>13.4</i>		<i>"</i>	<i>13.3</i>		<i>101</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: ENC - Miller 1,2-17

Project Number: 0334-11100
Project Manager: Daniel Burns

Reported:
12/15/11 07:41

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.

ATTACHMENT 2
MATERIAL SAFETY DATA SHEET

Material Safety Data Sheet

Trap & Treat[®] BOS 200[®]



Section I

Manufacturer's Name <i>Remediation Products Inc.</i>	Emergency Telephone Number <i>303.487.1000</i>
Address (Number, Street, City, State, and ZIP Code) <i>6390 Joyce Drive, Suite 150 W, Golden, CO 80403</i>	Telephone Number for Information <i>303-487-1000</i>
Prepared by <i>T. Mecum</i>	Date Prepared <i>12/2/02</i>
	Signature of Preparer (optional)

Section II - Hazard Ingredients/Identity Information

Non-hazardous components are listed at 3 percent (%) or greater. This is not intended to be a complete compositional disclosure.

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Carbon	5mg/M ³ (respirable)	10mg/M ³ (Total)	N/A	77
Calcium Sulfate (Gypsum)	“	“	N/A	19
N/A = Not Applicable PELs and TLVs are 8-hour TWAs unless otherwise noted.				

Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	2.33 g/cc real density
Vapor Pressure (mm Hg.)	N/A	Melting Point	Decomposes at 1450°C
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water: Negligible			
Appearance and Odor: Black powder. No odor.			

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) Not combustible	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media Flood with plenty of water			
Special Fire Fighting Procedures None			
Unusual Fire and Explosion Hazards Contact with strong oxidizer, such as ozone, liquid oxygen, chlorine, permanganate, etc., may result in fire.			
NFPA Rating: Health=0; Reactivity=0; Flammability=1			

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	None
Incompatibility (<i>Materials to Avoid</i>)			
Strong oxidizers, such as ozone, liquid oxygen, chlorine, permanganate, etc., and acids.			
Hazardous Decomposition	May Occur	X	Conditions to Avoid Above 1450° - SO ₂ & CaO
	Will Not Occur		

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
Health Hazards (<i>Acute and Chronic</i>)			
<p>The effects of long-term, low-level exposures to carbon have not been determined. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposures.</p> <p>Persons subjected to excessive dust will be forced to leave area because of nuisance; i.e., coughing, sneezing and nasal irritation.</p> <p>CAUTION!!! This material, when wet, removes oxygen from air causing a severe hazard to workers inside carbon vessels and enclosed or confined spaces. Before entering such an area, sampling and work procedures for low oxygen levels should be taken to ensure ample oxygen availability, observing all local, state, and federal regulations.</p>			
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	N/A	N/A	No
Signs and Symptoms of Exposure			
<p>Effects and Hazards of Eye Contact: The physical nature of this product may produce eye irritation, if exposed to dusting conditions without protective eye equipment.</p> <p>Effects and Hazards of Skin Contact: The product is not a primary skin irritant. The primary skin irritation (Rabbit) is 0.</p> <p>Effects and Hazards of Inhalation Breathing: This product is practically non-toxic through inhalation. The acute inhalation LD₅₀ (Rat) is >6.4 mg/l (nominal concentration). Could cause irritation to respiratory passages, if exposed to dusting conditions without protective respiratory equipment.</p> <p>Effects and Hazards of Ingestion (Swallowing): Material is non-toxic through ingestion. The acute oral LD₅₀ (Rat) is >10g/kg.</p>			
Medical Conditions Generally Aggravated by Exposure			
N/A			
Emergency and First Aid Procedures			
<p><u>Eyes:</u> Flush with plenty of water for at least 15 minutes. Call physician if irritation continues.</p> <p><u>Skin:</u> Wash with soap and water.</p> <p><u>Inhalation:</u> Move to fresh air.</p> <p><u>Ingestion:</u> N/A</p>			

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
Sweep or vacuum material from spillages into a waste container for disposal or repackage. Avoid dusting conditions.
Waste Disposal Method
Dispose of unused product in waste container. Dispose of in accordance with local, state, and federal or national regulations.
Precautions to Be Taken in Handling and Storing
CAUTION!!! This product, when wet, removes oxygen from air causing a severe hazard to workers inside carbon vessels and enclosed or confined spaces. Before entering such an area, sampling and work procedures for low oxygen levels should be taken to ensure ample oxygen availability, observing all local, state, and federal or national regulations. Be sure proper ventilation and respiratory and eye protection are used under dusting conditions.
Other Precautions
Wash thoroughly after handling. Exercise caution in the storage and handling of all chemical substances.

Section VIII - Control Measures

Respiratory Protection (<i>Specify Type</i>) Carbon-A NIOSH-approved particulate filter respirator is recommended, if excessive dust is generated.		
Ventilation	Local Exhaust Recommended, when used indoors or in confined spaces	Special Not Required
	Mechanical (<i>General</i>) Recommended, when used indoors or in confined spaces	Other Not required
Protective Gloves Recommended	Eye Protection Safety glasses or goggles recommended	
Other Protective Clothing or Equipment Not required		
Work/Hygienic Practices Use of Tyvek® or Nomex® suits is suggested to protect skin from becoming excessively dirty and clothing from being ruined by contact with product.		