

FORM 19
Rev 6/99

State of Colorado
Oil and Gas Conservation Commission

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



FOR OGCC USE ONLY

RECEIVED
6/22/2011

SPILL/RELEASE REPORT

This form is to be submitted by the party responsible for the oil and gas spill or release. Any spill or release which may impact waters of the State must be reported as soon as practicable; any spill over 20 bbls must be reported within 24 hours and all spills over five bbls must be reported within ten days. Submit a Site Investigation and

Spill report taken by:

FACILITY ID:

OPERATOR INFORMATION

Name of Operator: <u>Bonanza Creek Energy, Inc.</u>	OGCC Operator No: <u>8960</u>	Phone Numbers
Address: <u>410 17th Street, Suite 1500</u>		No: <u>720-440-6113</u>
City: <u>Denver</u> State: <u>CO</u> Zip: <u>80202</u>		Fax: <u>720-279-2331</u>
Contact Person: <u>Tom Peterson</u>		Email: <u>tpeterson@bonanzacr.com</u>

DESCRIPTION OF SPILL OR RELEASE

Date of Incident: <u>6/14/2011</u> Facility Name & No: <u>Mondt #1</u>	County: <u>Weld</u>
Type of Facility (well, tank battery, flow line, pit): <u>Production Facility</u>	QtrQtr: <u>NWNE</u> Section: <u>28</u>
Well Name and Number: <u>Mondt #1</u>	Township: <u>5N</u> Range: <u>63W</u>
API Number: <u>05-123-12179</u>	Meridian: <u>6th</u>
Specify volume spilled and recovered for the following materials:	
Oil spilled: <u>0</u> Oil recov'd: <u>0</u> Water spilled: <u>28</u> bbls Water recov'd: <u>27</u> bbls Other spilled: <u>0</u> Other recov'd: <u>0</u>	
Ground Water impacted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Surface Water impacted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Contained within berm? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Area and vertical extent of spill: <u>Unknown</u>
Current land use: <u>Rangeland</u>	Weather conditions: <u>80° F, clear</u>
Soil/geology description: <u>Fine to medium grained sand</u>	
IF LESS THAN A MILE , report distance IN FEET to nearest ... Surface water: <u>350 S</u> wetlands: <u>70 S</u> buildings: <u>1,950 NE</u>	
Livestock: <u>Unknown</u> Water wells: <u>1,900 NE</u> Depth to shallowest ground water: <u>2.5' bgs</u>	
Cause of spill (e.g. equipment failure, human error, etc.): <u>Equipment failure</u>	
Detailed description of the spill/release incident: A pumper discovered produced water seeping out of a hole in the tank battery firewall. The water line had failed and approximately 28 bbls of produced water were released. Less than one bbl of produced water was released outside of the firewall.	

CORRECTIVE ACTION

Describe immediate response (how stopped, contained and recovered): The well was shut in, the water leg was closed and pressure was bled from the separator. A vacuum truck was used to recover approximately 27 bbls of the spilled produced water and remove any remaining produced water from the water tank. The impacted soil was excavated, groundwater was encountered in the excavation at approximately 2.5' bgs.

Describe any emergency pits constructed: NA

How was the extent of contamination determined? Soil and groundwater samples were collected for laboratory analysis. Laboratory results for the confirmation soil samples indicate that TPH, BTEX, pH and EC levels are all within COGCC allowable levels at the extent of the excavation. Laboratory results for the excavation groundwater sample indicate that benzene concentrations exceed the CGWQS. Approximately 12 cubic yards of impacted soil were removed from the excavation and will be transported to Waste Management's Buffalo Ridge Landfill in Keenesburg, Colorado for disposal.

Further remediation activities proposed (attach separate sheet if needed): Five gallons of MicroBlaze were applied to the groundwater and exposed smear zone soils prior to backfilling the excavation. Groundwater monitoring wells will be installed to determine the extent and magnitude of groundwater impacts.

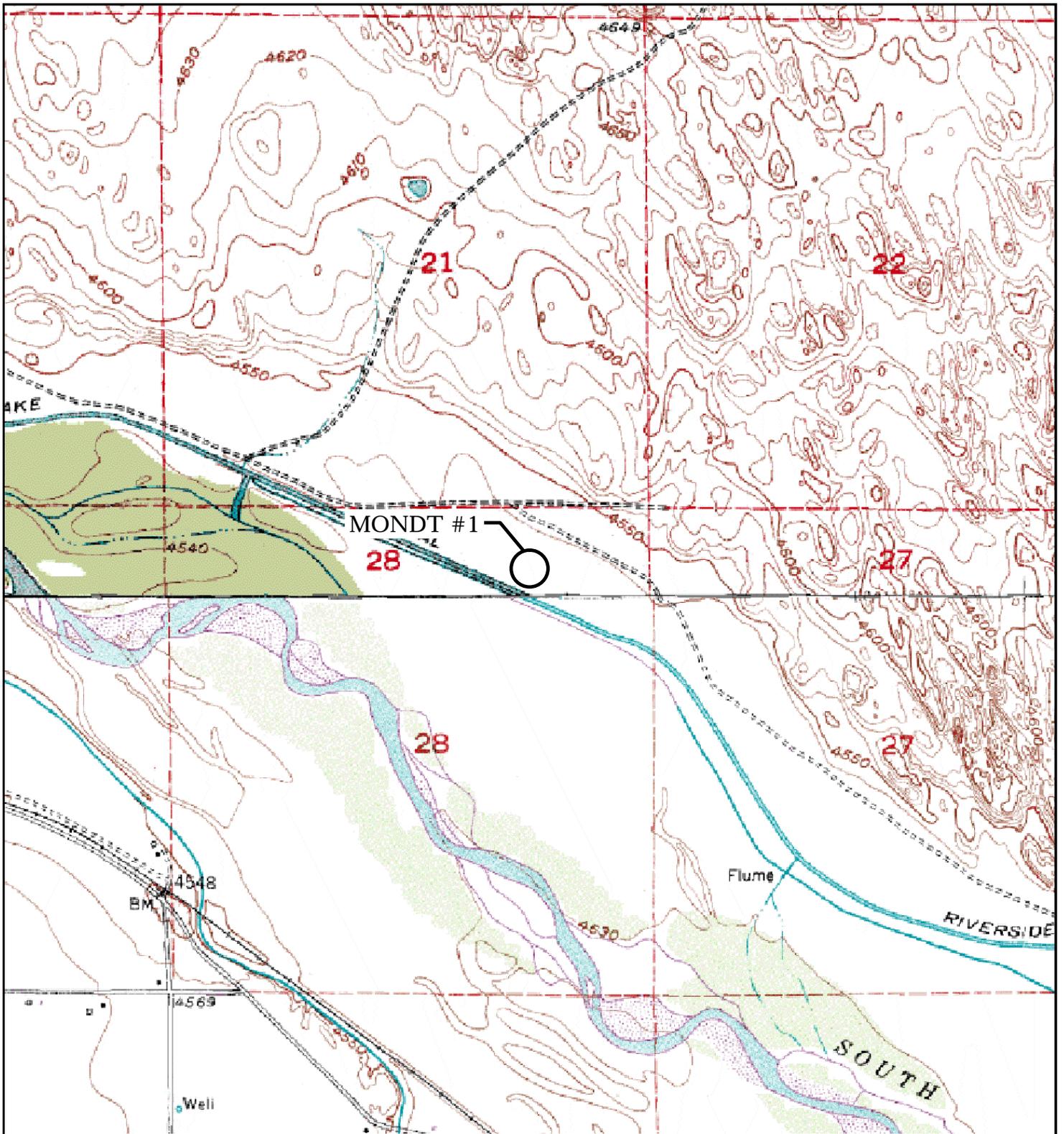
Describe measures taken to prevent problem from reoccurring: The existing lines will be replaced with new steel lines.

OTHER NOTIFICATIONS

List the parties and agencies notified (County, BLM, EPA, DOT, Local Emergency Planning Coordinator or other).

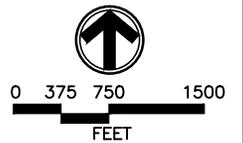
Date	Agency	Contact	Phone	Response

Spill/Release Tracking No: 2214613



LEGEND

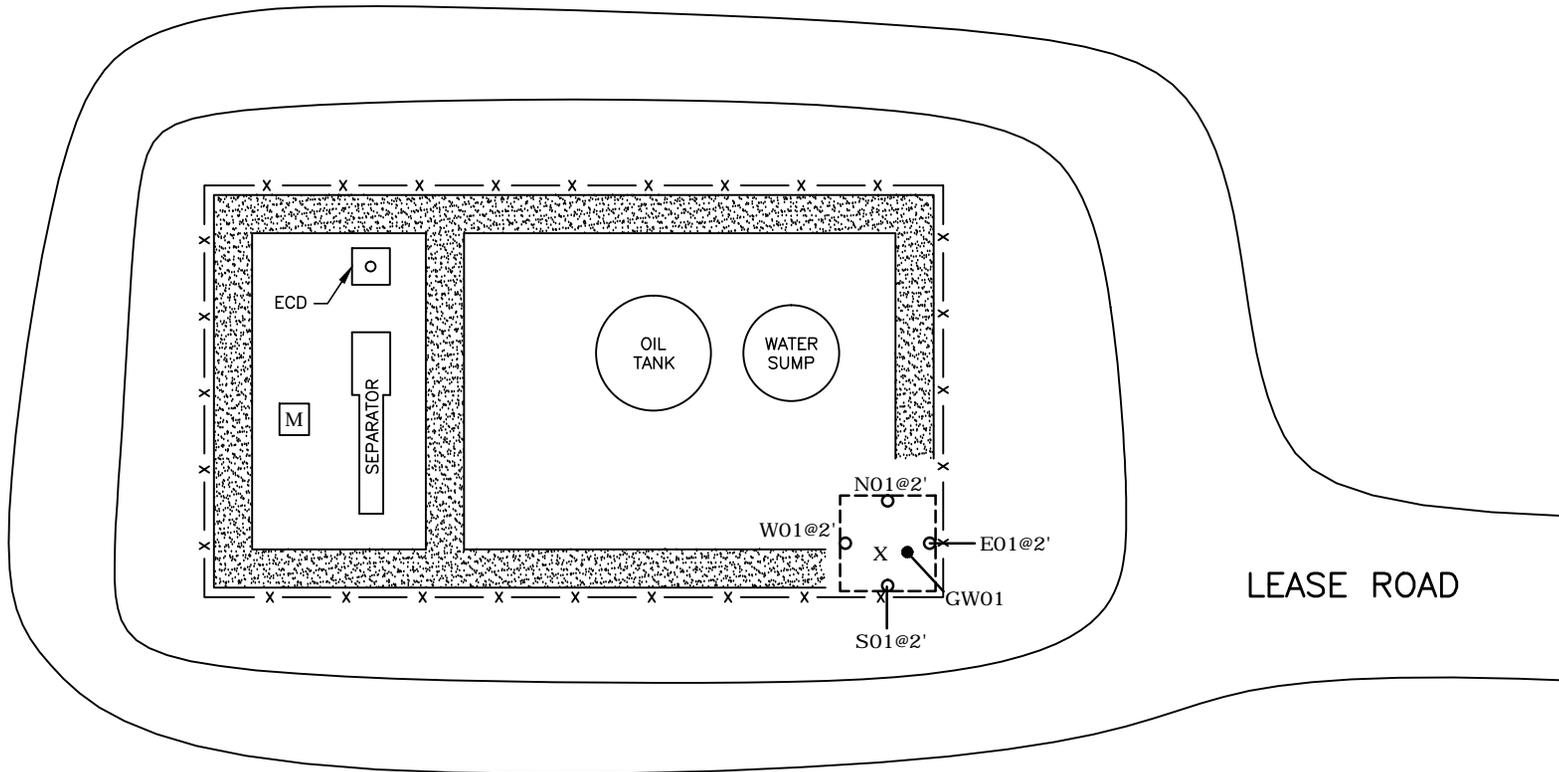
○ SITE LOCATION



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

FIGURE 1
SITE LOCATION MAP
MONDT #1
NWNE 28-T5N-R63W
WELD COUNTY, CO
BONANZA CREEK ENERGY, INC.





LEGEND

- SOIL SAMPLE
- GROUNDWATER SAMPLE
- BERM
- X RELEASE
- EXTENT OF EXCAVATION
- x — FENCE
- ESTIMATED GROUNDWATER FLOW DIRECTION

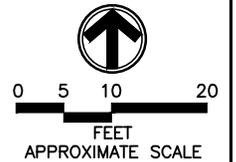
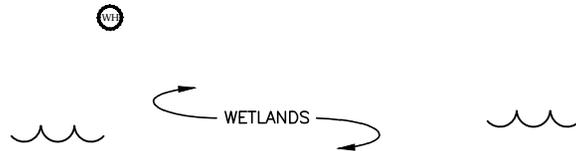


FIGURE 2
SITE MAP
MONDT #1
NWNE 28-T5N-R63W
WELD COUNTY, CO
BONANZA CREEK ENERGY, INC.



**TABLE 1
SOIL SAMPLE ANALYTICAL DATA
MONDT #1
BONANZA CREEK ENERGY, INC.**

SAMPLE ID	SAMPLE DATE	DEPTH (feet bgs)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	XYLENES (Total) (mg/kg)	TPH-GRO (mg/kg)	TEPH DRO+ORO (mg/kg)	EC (mmhos/cm)	pH
N01@2'	6/17/2011	2	<0.005	<0.005	<0.005	<0.005	<0.5	<50	2.75	8.3
E01@2'	6/17/2011	2	<0.005	<0.005	<0.005	<0.005	<0.5	<50	1.05	8.1
S01@2'	6/17/2011	2	<0.005	<0.005	<0.005	<0.005	<0.5	<50	0.652	8.4
W01@2'	6/17/2011	2	<0.005	<0.005	<0.005	<0.005	<0.5	<50	2.020	8.5
COGCC Allowable Level			0.17	85	100	175	500		<4.0	6-9

< - less than stated laboratory reporting limit

mg/kg - milligrams per kilogram

bgs - below ground surface

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

ORO - Oil Range Organics

Results noted in bold exceed COGCC allowable levels

TPH - Total Petroleum Hydrocarbons

TEPH - Total Extractable Petroleum Hydrocarbons

EC - Electrical Conductivity

mmhos/cm - Millimhos per centimeter

COGCC -Colorado Oil and Gas Conservation Commission

**TABLE 2
GROUNDWATER SAMPLE ANALYTICAL DATA
MONDT #1
BONANZA CREEK ENERGY, INC.**

SAMPLE ID	SAMPLE DATE	DEPTH (feet bgs)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYLBENZENE (ug/L)	XYLENES (Total) (ug/L)
GW01	6/17/2011	2.5	22	11	6.6	16
The Basic Standards for Groundwater			5	560	700	1,400

ug/L - Micrograms per liter

bgs - below ground surface

Results noted in bold exceed Colorado Department of Public Health and Environment (CDPHE)-Water Quality Control Commission (WQCC) Regulation 41-The Basic Standards for Groundwater



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 21, 2011

John Cocroft
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: Mondt #1

Enclosed are the results of analyses for samples received by Summit Scientific on 06/17/11 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: Mondt #1

Project Number: 0345-
Project Manager: John Cocroft

Reported:
06/21/11 12:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@2'	R106121-01	Soil	06/17/11 15:10	06/17/11 17:05
E01@2'	R106121-02	Soil	06/17/11 15:11	06/17/11 17:05
S01@2'	R106121-03	Soil	06/17/11 15:12	06/17/11 17:05
W01@2'	R106121-04	Soil	06/17/11 15:13	06/17/11 17:05
GW01	R106121-05	Water	06/17/11 15:15	06/17/11 17:05

Summit Scientific

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

Project: Mondt #1

Project Number: 0345-
Project Manager: John Cocroft

Reported:
06/21/11 12:04

R106121

Summit Scientific

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

Page 1 of 1

Client: LT Environmental, Inc. Project Manager: John Cocroft
Address: 4600 West 60th Avenue E-Mail: jcocroft@ltenv.com
City/State/Zip: Arvada, CO 80003 Project Name: Mondt #1
Phone: (303) 433-9788 Fax: (303) 433-1432 Project Number: 0345
Sampler Name: Pulliz Hazard

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)	DR/ORO	GBTEX	BTEX	PH / EC		
W0102'	6/17/11	1510	1			X											
E0102'	1	1511	1			X											
S0102'	1	1512	1			X											
W0102'	1	1513	1			X											
G-W01	1	1515	3			X											
Relinquished by: <u>[Signature]</u>	Date/Time: 6/17/11 1705	Received by: <u>[Signature]</u>	Date/Time: 6/17/11 1705	Turn Around Time (Check)				Notes:				24 hour turn for G-W01 Standard TAT for Soils					
Relinquished by:	Date/Time:	Received by:	Date/Time:	Some Day 72 Hours Standard				See Notes				Sample Integrity: <u>5a</u>					
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	48 Hours				Temperature Upon Receipt: <u>5a</u>				Intact: Yes <u>No</u>					

www.s2scientific.com



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

Project: Mondt #1
Project Number: 0345-
Project Manager: John Cocroft

Reported:
06/21/11 12:04

N01@2'
R106121-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/17/11 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1061803	06/18/11	06/18/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/17/11 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		99.8 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/17/11 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1061802	06/18/11	06/20/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/17/11 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		95.6 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.1 %	78.4-125		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/17/11 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: Mondt #1

Project Number: 0345-
 Project Manager: John Cocroft

Reported:
 06/21/11 12:04

N01@2'
R106121-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance (EC) **2.75** 0.00100 mmhos/cm 1 1062002 06/20/11 06/20/11 SM 2510B

Date Sampled: **06/17/11 15:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.3		pH Units	"	1062001	06/20/11	06/20/11	EPA 9045B	

Summit Scientific

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

Project: Mondt #1
Project Number: 0345-
Project Manager: John Cocroft

Reported:
06/21/11 12:04

E01@2'
R106121-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/17/11 15:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1061803	06/18/11	06/19/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/17/11 15:11**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/17/11 15:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1061802	06/18/11	06/20/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/17/11 15:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		97.4 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.4 %	78.4-125		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/17/11 15:11**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: Mondt #1

Project Number: 0345-
 Project Manager: John Cocroft

Reported:
 06/21/11 12:04

E01@2'
R106121-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance (EC) **1.05** 0.00100 mmhos/cm 1 1062002 06/20/11 06/20/11 SM 2510B

Date Sampled: **06/17/11 15:11**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.1		pH Units	"	1062001	06/20/11	06/20/11	EPA 9045B	

Summit Scientific

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

Project: Mondt #1
Project Number: 0345-
Project Manager: John Cocroft

Reported:
06/21/11 12:04

S01@2'
R106121-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/17/11 15:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1061803	06/18/11	06/19/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/17/11 15:12**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/17/11 15:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1061802	06/18/11	06/20/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/17/11 15:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.2 %	78.4-125		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/17/11 15:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: Mondt #1

Project Number: 0345-
 Project Manager: John Cocroft

Reported:
 06/21/11 12:04

S01@2'
R106121-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance (EC) **0.652** 0.00100 mmhos/cm 1 1062002 06/20/11 06/20/11 SM 2510B

Date Sampled: **06/17/11 15:12**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.4		pH Units	"	1062001	06/20/11	06/20/11	EPA 9045B	

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

Project: Mondt #1
Project Number: 0345-
Project Manager: John Cocroft

Reported:
06/21/11 12:04

W01@2'
R106121-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/17/11 15:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1061803	06/18/11	06/19/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/17/11 15:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		106 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/17/11 15:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1061802	06/18/11	06/20/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/17/11 15:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		114 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		97.4 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	78.4-125		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/17/11 15:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: Mondt #1

Project Number: 0345-
 Project Manager: John Cocroft

Reported:
 06/21/11 12:04

W01@2'
R106121-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance (EC) **2.02** 0.00100 mmhos/cm 1 1062002 06/20/11 06/20/11 SM 2510B

Date Sampled: **06/17/11 15:13**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.5		pH Units	"	1062001	06/20/11	06/20/11	EPA 9045B	

Summit Scientific

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

Project: Mondt #1
 Project Number: 0345-
 Project Manager: John Cocroft

Reported:
 06/21/11 12:04

GW01
R106121-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/17/11 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	22	1.0	ug/l	1	1061702	06/17/11	06/18/11	EPA 8260B	
Toluene	11	1.0	"	"	"	"	"	"	
Ethylbenzene	6.6	1.0	"	"	"	"	"	"	
Xylenes (total)	16	1.0	"	"	"	"	"	"	

Date Sampled: **06/17/11 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		115 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		95.2 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: Mondt #1
Project Number: 0345-
Project Manager: John Cocroft

Reported:
06/21/11 12:04

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1061803 - EPA 3550A

Blank (1061803-BLK1)				Prepared & Analyzed: 06/18/11							
C10-C28 (TEPH-DRO)	ND	50	mg/kg								
C28-C36 (TEPH-ORO)	ND	50	"								
<i>Surrogate: o-Terphenyl</i>	<i>13.1</i>		<i>"</i>	<i>12.5</i>	<i>105</i>	<i>88.8-124</i>					
LCS (1061803-BS1)				Prepared & Analyzed: 06/18/11							
C10-C28 (TEPH-DRO)	560	50	mg/kg	501	112	85-129				11.8	
LCS Dup (1061803-BSD1)				Prepared & Analyzed: 06/18/11							
C10-C28 (TEPH-DRO)	555	50	mg/kg	501	111	85-129	0.789			11.8	
Matrix Spike (1061803-MS1)				Source: R106121-01		Prepared & Analyzed: 06/18/11					
C10-C28 (TEPH-DRO)	561	50	mg/kg	501	42.1	104	77.3-134			8.39	
Matrix Spike Dup (1061803-MSD1)				Source: R106121-01		Prepared & Analyzed: 06/18/11					
C10-C28 (TEPH-DRO)	580	50	mg/kg	501	42.1	107	77.3-134	3.45		8.39	

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4600 West 60th Avenue
Arvada CO, 80003

Project: Mondt #1
Project Number: 0345-
Project Manager: John Cocroft

Reported:
06/21/11 12:04

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

Batch 1061702 - EPA 5030 Water MS

Blank (1061702-BLK1)

Prepared: 06/17/11 Analyzed: 06/18/11

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>15.0</i>		<i>"</i>	<i>13.3</i>		<i>112</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.5</i>		<i>"</i>	<i>13.3</i>		<i>93.5</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.8</i>		<i>"</i>	<i>13.3</i>		<i>96.2</i>	<i>80.8-120</i>			

LCS (1061702-BS1)

Prepared: 06/17/11 Analyzed: 06/18/11

Benzene	29.2	1.0	ug/l	33.3		87.7	60.1-131	4.26	10.9	
Toluene	31.2	1.0	"	33.3		93.5	65.9-127	3.16	11.3	
Ethylbenzene	32.8	1.0	"	33.3		98.6	65.1-129	3.25	20	
m,p-Xylene	69.8	2.0	"	66.7		105	66.8-127	6.37	20	
o-Xylene	31.8	1.0	"	33.3		95.5	61.2-120	3.84	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.8</i>		<i>"</i>	<i>13.3</i>		<i>111</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.5</i>		<i>"</i>	<i>13.3</i>		<i>94.1</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.8</i>		<i>"</i>	<i>13.3</i>		<i>95.8</i>	<i>80.8-120</i>			

LCS Dup (1061702-BSD1)

Prepared: 06/17/11 Analyzed: 06/18/11

Benzene	28.0	1.0	ug/l	33.3		84.1	60.1-131	4.26	10.9	
Toluene	30.2	1.0	"	33.3		90.5	65.9-127	3.16	11.3	
Ethylbenzene	31.8	1.0	"	33.3		95.4	65.1-129	3.25	20	
m,p-Xylene	65.5	2.0	"	66.7		98.3	66.8-127	6.37	20	
o-Xylene	30.6	1.0	"	33.3		91.9	61.2-120	3.84	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>15.2</i>		<i>"</i>	<i>13.3</i>		<i>114</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.2</i>		<i>"</i>	<i>13.3</i>		<i>91.5</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.6</i>		<i>"</i>	<i>13.3</i>		<i>94.4</i>	<i>80.8-120</i>			

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

Project: Mondt #1
Project Number: 0345-
Project Manager: John Cocroft

Reported:
06/21/11 12:04

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 1061702 - EPA 5030 Water MS

Matrix Spike (1061702-MS1)	Source: R106093-05			Prepared: 06/17/11	Analyzed: 06/18/11				
Benzene	29.5	1.0	ug/l	33.3	ND	88.4	52.7-130	5.37	19.3
Toluene	32.0	1.0	"	33.3	ND	96.0	57-127	6.25	18.7
Ethylbenzene	34.3	1.0	"	33.3	ND	103	59.2-127	6.78	20
m,p-Xylene	71.0	2.0	"	66.7	ND	106	53.2-132	7.97	20
o-Xylene	33.7	1.0	"	33.3	ND	101	56.3-117	6.91	20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>15.2</i>		<i>"</i>	<i>13.3</i>		<i>114</i>	<i>57.9-139</i>		
<i>Surrogate: Toluene-d8</i>	<i>12.4</i>		<i>"</i>	<i>13.3</i>		<i>92.7</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>		

Matrix Spike Dup (1061702-MSD1)	Source: R106093-05			Prepared: 06/17/11	Analyzed: 06/18/11				
Benzene	27.9	1.0	ug/l	33.3	ND	83.8	52.7-130	5.37	19.3
Toluene	30.0	1.0	"	33.3	ND	90.2	57-127	6.25	18.7
Ethylbenzene	32.1	1.0	"	33.3	ND	96.2	59.2-127	6.78	20
m,p-Xylene	65.5	2.0	"	66.7	ND	98.3	53.2-132	7.97	20
o-Xylene	31.4	1.0	"	33.3	ND	94.3	56.3-117	6.91	20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>15.6</i>		<i>"</i>	<i>13.3</i>		<i>117</i>	<i>57.9-139</i>		
<i>Surrogate: Toluene-d8</i>	<i>12.5</i>		<i>"</i>	<i>13.3</i>		<i>93.5</i>	<i>83.1-115</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.6</i>		<i>"</i>	<i>13.3</i>		<i>94.4</i>	<i>80.8-120</i>		

Batch 1061802 - EPA 5030 Soil MS

Blank (1061802-BLK1)				Prepared: 06/18/11	Analyzed: 06/20/11
Benzene	ND	0.0050	mg/kg		
Toluene	ND	0.0050	"		
Ethylbenzene	ND	0.0050	"		
Xylenes (total)	ND	0.0050	"		
Gasoline Range Hydrocarbons	ND	0.50	"		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0419</i>		<i>"</i>	<i>0.0400</i>	<i>105</i>
<i>Surrogate: Toluene-d8</i>	<i>0.0399</i>		<i>"</i>	<i>0.0400</i>	<i>99.8</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0382</i>		<i>"</i>	<i>0.0400</i>	<i>95.5</i>

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

Project: Mondt #1
Project Number: 0345-
Project Manager: John Cocroft

Reported:
06/21/11 12:04

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 1061802 - EPA 5030 Soil MS

LCS (1061802-BS1)

Prepared: 06/18/11 Analyzed: 06/20/11

Benzene	0.151	0.0050	mg/kg	0.150		101	61-139		11.1	
Toluene	0.155	0.0050	"	0.150		103	64-132		10.9	
Ethylbenzene	0.155	0.0050	"	0.150		103	68.7-135		20	
m,p-Xylene	0.315	0.010	"	0.300		105	70.4-129		20	
o-Xylene	0.152	0.0050	"	0.150		101	66.9-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0412		"	0.0400		103	67.4-143			
Surrogate: Toluene-d8	0.0399		"	0.0400		99.8	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0405		"	0.0400		101	78.4-125			

LCS Dup (1061802-BSD1)

Prepared: 06/18/11 Analyzed: 06/20/11

Benzene	0.148	0.0050	mg/kg	0.150		98.4	61-139	2.45	11.1	
Toluene	0.151	0.0050	"	0.150		101	64-132	2.39	10.9	
Ethylbenzene	0.152	0.0050	"	0.150		101	68.7-135	1.93	20	
m,p-Xylene	0.307	0.010	"	0.300		102	70.4-129	2.73	20	
o-Xylene	0.150	0.0050	"	0.150		99.8	66.9-126	1.61	20	
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0400		101	67.4-143			
Surrogate: Toluene-d8	0.0399		"	0.0400		99.7	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	78.4-125			

Matrix Spike (1061802-MS1)

Source: R106122-01

Prepared: 06/18/11 Analyzed: 06/20/11

Benzene	0.125	0.0050	mg/kg	0.150	ND	83.2	42.9-137		17.9	
Toluene	0.119	0.0050	"	0.150	ND	79.5	42.6-130		11.9	
Ethylbenzene	0.101	0.0050	"	0.150	ND	67.1	39-133		20	
m,p-Xylene	0.162	0.010	"	0.300	ND	53.9	34.7-134		20	
o-Xylene	0.117	0.0050	"	0.150	ND	78.2	41.3-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0422		"	0.0400		106	67.4-143			
Surrogate: Toluene-d8	0.0396		"	0.0400		99.0	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0407		"	0.0400		102	78.4-125			

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Project: Mondt #1
Project Number: 0345-
Project Manager: John Cocroft

Reported:
06/21/11 12:04

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 1061802 - EPA 5030 Soil MS

Matrix Spike Dup (1061802-MSD1)	Source: R106122-01			Prepared: 06/18/11	Analyzed: 06/20/11					
Benzene	0.124	0.0050	mg/kg	0.150	ND	82.5	42.9-137	0.893	17.9	
Toluene	0.120	0.0050	"	0.150	ND	79.8	42.6-130	0.377	11.9	
Ethylbenzene	0.0936	0.0050	"	0.150	ND	62.4	39-133	7.32	20	
m,p-Xylene	0.151	0.010	"	0.300	ND	50.3	34.7-134	6.86	20	
o-Xylene	0.122	0.0050	"	0.150	ND	81.1	41.3-126	3.66	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0428</i>		<i>"</i>	<i>0.0400</i>		<i>107</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>0.0404</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: Mondt #1
 Project Number: 0345-
 Project Manager: John Cocroft

Reported:
 06/21/11 12:04

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

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

Batch 1062001 - General Preparation

Duplicate (1062001-DUP1)		Source: R106121-01		Prepared & Analyzed: 06/20/11	
pH	8.3		pH Units	8.3	0.363 20

Batch 1062002 - General Preparation

Duplicate (1062002-DUP1)		Source: R106121-02		Prepared & Analyzed: 06/20/11	
Specific Conductance (EC)	1.00	0.00100	mmhos/cm	1.05	4.78 20

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Arvada CO, 80003

Project: Mondt #1

Project Number: 0345-
Project Manager: John Cocroft

Reported:
06/21/11 12:04

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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