



410 17th Street, Suite 1500
Denver, CO 80202
(720) 440-6100 phone
(720) 305-0804 fax

Bonanzacrk.com

May 1, 2012

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

Re: No Further Action Status Request
Huck 41-28
COGCC Remediation No. 6090
API# 05-123-21882
NENE 28-T5N-R63W

Dear Mr. Axelson:

Bonanza Creek Energy, Inc. (Bonanza Creek) is submitting this letter report as an update to the Form 27, submitted on August 29, 2011, for the Huck 41-28 tank battery release. We are requesting a No Further Action (NFA) status for this site.

On May 28, 2011, the pumper discovered that the bypass line from the separator to the production tank had failed. Approximately 2 barrels (bbls) of oil were released within the tank battery containment berm. The well was shut in, and 1.5 bbls of oil were recovered with a vacuum truck. Bonanza Creek contracted LT Environmental, Inc. (LTE) to oversee excavation of the impacted soil, collect confirmation soil samples, perform quarterly groundwater monitoring, and interpret the analytical results. Approximately 10 cubic yards of petroleum hydrocarbon impacted soil were removed from the tank battery excavation and transported to Waste Management's Buffalo Ridge landfill in Keenesburg, Colorado for disposal.

Confirmation soil samples were collected from the excavation sidewalls and submitted for total petroleum hydrocarbon (TPH) analysis by Environmental Protection Agency (EPA) Methods 8015 and 8260B and benzene, toluene, ethylbenzene, and total xylenes (BTEX) analysis by EPA Method 8260B. The analytical results confirmed that TPH and BTEX concentrations were below the Colorado Oil and Gas Conservation Commission's (COGCC) allowable levels at the extent of excavation.

Groundwater was encountered in the excavation at approximately 2 feet below ground surface. A groundwater sample (GW01) was collected from the open excavation and submitted for BTEX analysis by EPA Method 8260B. Laboratory results for the excavation groundwater sample indicated that BTEX concentrations exceeded the Colorado Groundwater Quality Standards

(CGWQS). The excavation area was restored to its pre-release grade and Bonanza Creek's production facility remains at the site.

In order to assess the extent and magnitude of the residual dissolved phase groundwater impacts, four monitoring wells (MW01 through MW04) were installed at the site in June 2011. BTEX concentrations in MW01 through MW04 were below the CGWQS and below the laboratory reporting limit of 1.0 micrograms per liter (ug/l) during the July 2011 monitoring event. Based on the July 2011 groundwater results, wells MW01, MW03, and MW04 were designated as point of compliance wells. Groundwater monitoring continued on a quarterly basis.

As of the April 2012 quarterly groundwater monitoring event, BTEX concentrations in all four monitoring wells have remained below the CGWQS for four consecutive quarterly groundwater monitoring events. A Site Map showing the general site layout, excavation outline, and monitoring well locations is provided as Figure 1. The groundwater results are summarized in Table 1 and the laboratory analytical reports are attached.

Based on the remedial activities employed at this site and groundwater sample analytical results showing BTEX concentrations below the CGWQS for four consecutive quarterly sampling events, Bonanza Creek is requesting NFA status for this site.

Please contact me at 720-440-6113 if you have any questions regarding this information.

Sincerely,

Bonanza Creek Energy, Inc.



Tom Peterson
Engineering Technician

Attachments

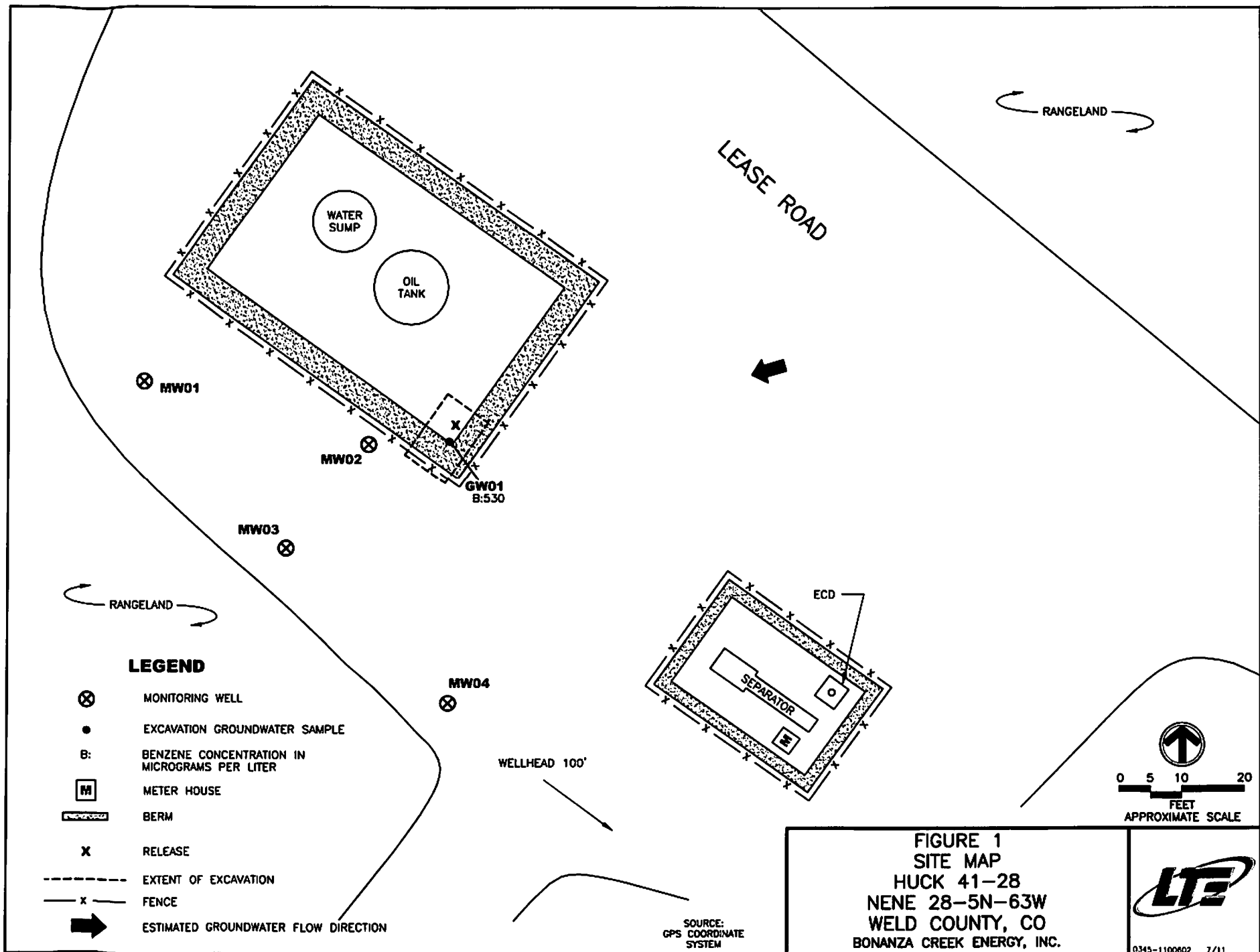


TABLE 1
GROUNDWATER SAMPLE ANALYTICAL DATA
HUCK 41-28
BONANZA CREEK ENERGY, INC.

SAMPLE ID	SAMPLE DATE	DTW (feet bgs)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYLBENZENE (ug/L)	XYLENES (Total) (ug/L)
GW01	6/22/2011	2	530	780	83	760
MW01	7/26/2011	2.38	<1.0	<1.0	<1.0	<1.0
MW02	7/26/2011	2.41	<1.0	<1.0	<1.0	<1.0
MW03	7/26/2011	2.3	<1.0	<1.0	<1.0	<1.0
MW04	7/26/2011	2.1	<1.0	<1.0	<1.0	<1.0
MW01	10/18/2011	1.35	<1.0	<1.0	<1.0	<1.0
MW02	10/18/2011	1.42	<1.0	<1.0	<1.0	<1.0
MW03	10/18/2011	1.35	<1.0	<1.0	<1.0	<1.0
MW04	10/18/2011	1.0	<1.0	<1.0	<1.0	<1.0
MW01	1/30/2012	2.06	<1.0	<1.0	<1.0	<1.0
MW02	1/30/2012	2.13	<1.0	<1.0	<1.0	<1.0
MW03	1/30/2012	2.03	<1.0	<1.0	<1.0	<1.0
MW04	1/30/2012	1.71	<1.0	<1.0	<1.0	<1.0
MW01	4/6/2012	1.91	<1.0	<1.0	<1.0	<1.0
MW02	4/6/2012	1.92	<1.0	<1.0	<1.0	<1.0
MW03	4/6/2012	1.87	<1.0	<1.0	<1.0	<1.0
MW04	4/6/2012	1.50	<1.0	<1.0	<1.0	<1.0
The Basic Standards for Groundwater			5	560	700	1,400

ug/L - micrograms per liter

bgs - below ground surface

DTW - depth to water

< - less than stated laboratory reporting limit

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

August 02, 2011

John Cocroft
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: BC - Huck 41-28

Enclosed are the results of analyses for samples received by Summit Scientific on 07/26/11 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director

S₂

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
08/02/11 10:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R107160-01	Water	07/26/11 13:30	07/26/11 17:00
MW02	R107160-02	Water	07/26/11 13:35	07/26/11 17:00
MW03	R107160-03	Water	07/26/11 13:40	07/26/11 17:00
MW04	R107160-04	Water	07/26/11 13:45	07/26/11 17:00

Summit Scientific



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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
08/02/11 10:51

Summit Scientific
2107160

S₂
741 Corporate Circle Suite 1 ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-277-9531 Fax

Page / of /

Client: LT Environmental, Inc.

Address: 4600 West 60th Avenue

City/State/Zip: Arvada, CO 80003

Phone: (303) 433-9788

Sample Name: Be: V W n R

Sample Name: D9-1104

Project Manager: John Cocroft

E-Mail: icacraft@kentvProject Name: Lib., $\sqrt{41} = x$

Project Number: A345 1000

Project Number: Q2-12-11000

[illegible]

www.s2scientific.com

Summit Scientific

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
08/02/11 10:51

MW01
R107160-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/26/11 13:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1072906	07/29/11	07/30/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 07/26/11 13:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.9 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		91.2 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.6 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
08/02/11 10:51

MW02
R107160-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/26/11 13:35

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	1072906	07/29/11	07/30/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 07/26/11 13:35

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		96.7 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	80.8-120		"	"	"	"	

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
08/02/11 10:51

MW03
R107160-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/26/11 13:40

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	1072906	07/29/11	07/30/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 07/26/11 13:40

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		98.9 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		95.2 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.3 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
08/02/11 10:51

MW04
R107160-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/26/11 13:45

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	1072906	07/29/11	07/30/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 07/26/11 13:45

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		92.9 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		91.7 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.7 %	80.8-120		"	"	"	"	

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

Project: BC - Huck 41-28
Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
08/02/11 10:51

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 1072906 - EPA 5030 Water MS

Blank (1072906-BLK1)

Prepared: 07/29/11 Analyzed: 07/30/11

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	11.7		"	13.3		88.0	57.9-139			
Surrogate: Toluene-d8	12.1		"	13.3		91.1	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.6	80.8-120			

LCS (1072906-BS1)

Prepared: 07/29/11 Analyzed: 07/30/11

Benzene	29.3	1.0	ug/l	33.3		88.0	60.1-131		10.9	
Toluene	27.9	1.0	"	33.3		83.6	65.9-127		11.3	
Ethylbenzene	30.7	1.0	"	33.3		92.0	65.1-129		20	
m,p-Xylene	62.1	2.0	"	66.7		93.2	66.8-127		20	
o-Xylene	31.6	1.0	"	33.3		94.7	61.2-120		20	
Surrogate: 1,2-Dichloroethane-d4	12.8		"	13.3		95.7	57.9-139			
Surrogate: Toluene-d8	12.6		"	13.3		94.6	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		93.3	80.8-120			

LCS Dup (1072906-BSD1)

Prepared: 07/29/11 Analyzed: 07/30/11

Benzene	30.3	1.0	ug/l	33.3		90.9	60.1-131	3.25	10.9	
Toluene	28.8	1.0	"	33.3		86.3	65.9-127	3.18	11.3	
Ethylbenzene	32.3	1.0	"	33.3		96.8	65.1-129	5.09	20	
m,p-Xylene	64.5	2.0	"	66.7		96.7	66.8-127	3.71	20	
o-Xylene	32.7	1.0	"	33.3		98.0	61.2-120	3.46	20	
Surrogate: 1,2-Dichloroethane-d4	12.5		"	13.3		93.7	57.9-139			
Surrogate: Toluene-d8	12.6		"	13.3		94.2	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		93.3	80.8-120			

Summit Scientific

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

Project: BC - Huck 41-28
Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
08/02/11 10:51

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 1072906 - EPA 5030 Water MS

Matrix Spike (1072906-MS1)		Source: R107158-01			Prepared: 07/29/11		Analyzed: 07/30/11			
Benzene	31.3	1.0	ug/l	33.3	ND	93.9	52.7-130		19.3	
Toluene	29.8	1.0	"	33.3	ND	89.3	57-127		18.7	
Ethylbenzene	33.4	1.0	"	33.3	ND	100	59.2-127		20	
m,p-Xylene	67.4	2.0	"	66.7	ND	101	53.2-132		20	
o-Xylene	33.7	1.0	"	33.3	ND	101	56.3-117		20	
Surrogate: 1,2-Dichloroethane-d4	13.0		"	13.3		97.3	57.9-139			
Surrogate: Toluene-d8	12.6		"	13.3		94.3	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		93.0	80.8-120			
Matrix Spike Dup (1072906-MSD1)		Source: R107158-01			Prepared: 07/29/11		Analyzed: 07/30/11			
Benzene	30.4	1.0	ug/l	33.3	ND	91.1	52.7-130	3.02	19.3	
Toluene	29.1	1.0	"	33.3	ND	87.3	57-127	2.31	18.7	
Ethylbenzene	33.8	1.0	"	33.3	ND	101	59.2-127	1.19	20	
m,p-Xylene	67.6	2.0	"	66.7	ND	101	53.2-132	0.370	20	
o-Xylene	33.6	1.0	"	33.3	ND	101	56.3-117	0.386	20	
Surrogate: 1,2-Dichloroethane-d4	12.8		"	13.3		95.7	57.9-139			
Surrogate: Toluene-d8	12.6		"	13.3		94.3	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		97.0	80.8-120			

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

Project: BC - Huck 41-28
Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
08/02/11 10:51

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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Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

October 21, 2011

John Cocroft
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: BC - Huck 41-28

Enclosed are the results of analyses for samples received by Summit Scientific on 10/18/11 17:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director

S₂

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
10/21/11 15:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R110106-01	Water	10/18/11 12:30	10/18/11 17:15
MW02	R110106-02	Water	10/18/11 12:25	10/18/11 17:15
MW03	R110106-03	Water	10/18/11 12:20	10/18/11 17:15
MW04	R110106-04	Water	10/18/11 12:15	10/18/11 17:15

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
10/21/11 15:18

Summit Scientific R110106

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303-277-9310 • 303-277-9531 Fax

Chemical T₂

Page / of /

Address: 4100 West 160th Ave

City/State/Zip: NY/NJ: 10003 E-Mail:

Phone: 305-4329788 Fax: KC-HUCK 41-28

Submitted Name: Der Unalut Project Number: 034511004

[illegible]

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
10/21/11 15:18

MW01
R110106-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/18/11 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1101908	10/19/11	10/20/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 10/18/11 12:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		95.6 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.5 %	80.8-120		"	"	"	"	

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
10/21/11 15:18

MW02
R110106-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/18/11 12:25

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	1101908	10/19/11	10/20/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 10/18/11 12:25

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		109 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		95.5 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.2 %	80.8-120		"	"	"	"	

Summit Scientific

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

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
10/21/11 15:18

MW03
R110106-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/18/11 12:20

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1101908	10/19/11	10/20/11	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: 10/18/11 12:20

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		114 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		94.7 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.6 %		80.8-120		"	"	"	"	

Summit Scientific

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



S₂

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
10/21/11 15:18

MW04
R110106-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 10/18/11 12:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1101908	10/19/11	10/20/11	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 10/18/11 12:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		108 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		94.9 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.0 %	80.8-120		"	"	"	"	

Summit Scientific

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S₂

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

Project: BC - Huck 41-28
Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
10/21/11 15:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch 1101908 - EPA 5030 Water MS

Blank (1101908-BLK1)

Prepared & Analyzed: 10/19/11

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.6		"	13.3	109	57.9-139				
Surrogate: Toluene-d8	12.6		"	13.3	94.9	83.1-115				
Surrogate: 4-Bromofluorobenzene	12.1		"	13.3	91.0	80.8-120				

Blank (1101908-BLK2)

Prepared & Analyzed: 10/19/11

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.6		"	13.3	109	57.9-139				
Surrogate: Toluene-d8	13.0		"	13.3	97.6	83.1-115				
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3	94.7	80.8-120				

LCS (1101908-BS1)

Prepared & Analyzed: 10/19/11

Benzene	36.2	1.0	ug/l	33.3	109	60.1-131			10.9	
Toluene	35.6	1.0	"	33.3	107	65.9-127			11.3	
Ethylbenzene	36.4	1.0	"	33.3	109	65.1-129			20	
m,p-Xylene	69.5	2.0	"	66.7	104	66.8-127			20	
o-Xylene	36.1	1.0	"	33.3	108	61.2-120			20	
Surrogate: 1,2-Dichloroethane-d4	14.1		"	13.3	106	57.9-139				
Surrogate: Toluene-d8	12.8		"	13.3	96.2	83.1-115				
Surrogate: 4-Bromofluorobenzene	11.2		"	13.3	83.7	80.8-120				

LCS (1101908-BS2)

Prepared & Analyzed: 10/19/11

Benzene	36.9	1.0	ug/l	33.3	111	60.1-131			10.9	
Toluene	35.9	1.0	"	33.3	108	65.9-127			11.3	
Ethylbenzene	36.4	1.0	"	33.3	109	65.1-129			20	
m,p-Xylene	69.4	2.0	"	66.7	104	66.8-127			20	
o-Xylene	34.6	1.0	"	33.3	104	61.2-120			20	
Surrogate: 1,2-Dichloroethane-d4	14.4		"	13.3	108	57.9-139				
Surrogate: Toluene-d8	12.7		"	13.3	95.6	83.1-115				
Surrogate: 4-Bromofluorobenzene	11.4		"	13.3	85.8	80.8-120				

Summit Scientific

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
10/21/11 15:18

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 1101908 - EPA 5030 Water MS

LCS Dup (1101908-BSD1)

Prepared & Analyzed: 10/19/11

Benzene	34.4	1.0	ug/l	33.3	103	60.1-131	5.15	10.9	
Toluene	34.7	1.0	"	33.3	104	65.9-127	2.65	11.3	
Ethylbenzene	33.9	1.0	"	33.3	102	65.1-129	7.17	20	
m,p-Xylene	65.0	2.0	"	66.7	97.5	66.8-127	6.77	20	
o-Xylene	32.8	1.0	"	33.3	98.5	61.2-120	9.63	20	
Surrogate: 1,2-Dichloroethane-d4	15.1		"	13.3	113	57.9-139			
Surrogate: Toluene-d8	13.5		"	13.3	101	83.1-115			
Surrogate: 4-Bromofluorobenzene	11.7		"	13.3	87.9	80.8-120			

LCS Dup (1101908-BSD2)

Prepared & Analyzed: 10/19/11

Benzene	37.7	1.0	ug/l	33.3	113	60.1-131	2.28	10.9	
Toluene	38.0	1.0	"	33.3	114	65.9-127	5.79	11.3	
Ethylbenzene	36.4	1.0	"	33.3	109	65.1-129	0.00	20	
m,p-Xylene	70.0	2.0	"	66.7	105	66.8-127	0.847	20	
o-Xylene	34.6	1.0	"	33.3	104	61.2-120	0.260	20	
Surrogate: 1,2-Dichloroethane-d4	14.8		"	13.3	111	57.9-139			
Surrogate: Toluene-d8	13.7		"	13.3	103	83.1-115			
Surrogate: 4-Bromofluorobenzene	11.3		"	13.3	84.6	80.8-120			

Matrix Spike (1101908-MS1)

Source: R110096-02

Prepared & Analyzed: 10/19/11

Benzene	36.5	1.0	ug/l	33.3	ND	110	52.7-130	19.3	
Toluene	36.0	1.0	"	33.3	ND	108	57-127	18.7	
Ethylbenzene	36.9	1.0	"	33.3	ND	111	59.2-127	20	
m,p-Xylene	70.8	2.0	"	66.7	ND	106	53.2-132	20	
o-Xylene	34.9	1.0	"	33.3	ND	105	56.3-117	20	
Surrogate: 1,2-Dichloroethane-d4	14.6		"	13.3	110	57.9-139			
Surrogate: Toluene-d8	12.7		"	13.3	95.3	83.1-115			
Surrogate: 4-Bromofluorobenzene	11.5		"	13.3	86.3	80.8-120			

Summit Scientific

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
10/21/11 15:18

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 1101908 - EPA 5030 Water MS

Matrix Spike (1101908-MS2)			Source: R110096-03		Prepared & Analyzed: 10/19/11					
Benzene	37.5	1.0	ug/l	33.3	ND	112	52.7-130		19.3	
Toluene	36.8	1.0	"	33.3	ND	110	57-127		18.7	
Ethylbenzene	36.6	1.0	"	33.3	ND	110	59.2-127		20	
m,p-Xylene	70.0	2.0	"	66.7	ND	105	53.2-132		20	
o-Xylene	34.8	1.0	"	33.3	ND	104	56.3-117		20	
Surrogate: 1,2-Dichloroethane-d4	14.8		"	13.3		111	57.9-139			
Surrogate: Toluene-d8	13.2		"	13.3		99.0	83.1-115			
Surrogate: 4-Bromofluorobenzene	11.6		"	13.3		87.2	80.8-120			

Matrix Spike Dup (1101908-MSD1)			Source: R110096-02		Prepared & Analyzed: 10/19/11					
Benzene	38.1	1.0	ug/l	33.3	ND	114	52.7-130	4.23	19.3	
Toluene	38.8	1.0	"	33.3	ND	116	57-127	7.43	18.7	
Ethylbenzene	36.7	1.0	"	33.3	ND	110	59.2-127	0.489	20	
m,p-Xylene	70.9	2.0	"	66.7	ND	106	53.2-132	0.198	20	
o-Xylene	35.4	1.0	"	33.3	ND	106	56.3-117	1.54	20	
Surrogate: 1,2-Dichloroethane-d4	15.2		"	13.3		114	57.9-139			
Surrogate: Toluene-d8	13.8		"	13.3		104	83.1-115			
Surrogate: 4-Bromofluorobenzene	11.6		"	13.3		86.6	80.8-120			

Matrix Spike Dup (1101908-MSD2)			Source: R110096-03		Prepared & Analyzed: 10/19/11					
Benzene	36.9	1.0	ug/l	33.3	ND	111	52.7-130	1.72	19.3	
Toluene	37.5	1.0	"	33.3	ND	112	57-127	1.83	18.7	
Ethylbenzene	36.4	1.0	"	33.3	ND	109	59.2-127	0.466	20	
m,p-Xylene	71.4	2.0	"	66.7	ND	107	53.2-132	1.94	20	
o-Xylene	35.6	1.0	"	33.3	ND	107	56.3-117	2.39	20	
Surrogate: 1,2-Dichloroethane-d4	14.6		"	13.3		110	57.9-139			
Surrogate: Toluene-d8	13.2		"	13.3		98.7	83.1-115			
Surrogate: 4-Bromofluorobenzene	11.7		"	13.3		87.8	80.8-120			

Summit Scientific



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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
10/21/11 15:18

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

Summit Scientific

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Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

February 10, 2012

John Cocroft
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: BC - Huck 41-28

Enclosed are the results of analyses for samples received by Summit Scientific on 01/30/12 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

S₂

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
02/10/12 07:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R201213-01	Water	01/30/12 12:35	01/30/12 17:00
MW02	R201213-02	Water	01/30/12 12:30	01/30/12 17:00
MW03	R201213-03	Water	01/30/12 12:25	01/30/12 17:00
MW04	R201213-04	Water	01/30/12 12:20	01/30/12 17:00

Summit Scientific



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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
02/10/12 07:32

Page 1 of 1

R201213

Summit Scientific

741 Corporate Circle - Suite 1
Golden, Colorado 80401
303-777-9310 ~ 303-774-9933 Fax

Client: LT Environmental, Inc.
Project: BC - Huck 41-28
Project Manager: John Cocroft
Project Number: 0345-11006

Number	Sample Identification	Matrix	Type	Sample Date	Sample Time	Sampled By	Container	Qty	Analytes
01-001	MHW01	Water	Field Sample	1/30/12	12:35	A	New Val - HCT	3	BTEX
02-001	MHW02	Water	Field Sample	1	12:30		New Val - HCT	3	
03-001	MHW03	Water	Field Sample	1	12:25		New Val - HCT	3	
04-001	MHW04	Water	Field Sample	1	12:20		New Val - HCT	3	

Time Aired Time (Check)

Scan Day ☐ 72 Hours ☒ Standard
All Items

Sample Integrity: 1.7

Impurities (per Receipt)
Yes ☒ No

Relinquished By: Date/Time

Received By: Date/Time

Relinquished By: Date/Time

Received By: Date/Time

Summit Scientific

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S₂

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
02/10/12 07:32

MW01
R201213-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 01/30/12 12:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2020406	02/04/12	02/08/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 01/30/12 12:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.7 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		95.5 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.1 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
02/10/12 07:32

MW02
R201213-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 01/30/12 12:30

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	2020406	02/04/12	02/08/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 01/30/12 12:30

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		103 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		100 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.4 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
02/10/12 07:32

MW03
R201213-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 01/30/12 12:25

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	2020406	02/04/12	02/08/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 01/30/12 12:25

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		101 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		96.2 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.5 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
02/10/12 07:32

MW04
R201213-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 01/30/12 12:20

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2020406	02/04/12	02/08/12	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: 01/30/12 12:20

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		98.5 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		97.5 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.8 %		80.8-120		"	"	"	"	

Summit Scientific

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

Project: BC - Huck 41-28
Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
02/10/12 07:32

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 2020406 - EPA 5030 Water MS

Blank (2020406-BLK1)

Prepared: 02/04/12 Analyzed: 02/06/12

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.2		102	57.9-139			
Surrogate: Toluene-d8	12.8		"	13.3		96.1	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.4	80.8-120			

Blank (2020406-BLK2)

Prepared: 02/04/12 Analyzed: 02/06/12

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.7		"	13.2		103	57.9-139			
Surrogate: Toluene-d8	12.8		"	13.3		95.9	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.4	80.8-120			

LCS (2020406-BS1)

Prepared: 02/04/12 Analyzed: 02/06/12

Benzene	28.3	1.0	ug/l	33.3		84.8	60.1-131		10.9	
Toluene	29.4	1.0	"	33.3		88.4	65.9-127		11.3	
Ethylbenzene	27.8	1.0	"	33.3		83.5	65.1-129		20	
m,p-Xylene	60.5	2.0	"	66.7		90.7	66.8-127		20	
o-Xylene	30.3	1.0	"	33.3		90.9	61.2-120		20	
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.2		105	57.9-139			
Surrogate: Toluene-d8	13.1		"	13.3		98.5	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		93.4	80.8-120			

LCS (2020406-BS2)

Prepared: 02/04/12 Analyzed: 02/06/12

Benzene	30.2	1.0	ug/l	33.3		90.5	60.1-131		10.9	
Toluene	31.7	1.0	"	33.3		95.1	65.9-127		11.3	
Ethylbenzene	30.8	1.0	"	33.3		92.6	65.1-129		20	
m,p-Xylene	68.2	2.0	"	66.7		102	66.8-127		20	
o-Xylene	33.8	1.0	"	33.3		102	61.2-120		20	
Surrogate: 1,2-Dichloroethane-d4	13.7		"	13.2		104	57.9-139			
Surrogate: Toluene-d8	13.1		"	13.3		98.0	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.0	80.8-120			

Summit Scientific

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



S₂

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
02/10/12 07:32

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 2020406 - EPA 5030 Water MS

LCS Dup (2020406-BSD1)

Prepared: 02/04/12 Analyzed: 02/06/12

Benzene	28.4	1.0	ug/l	33.3	85.1	60.1-131	0.388	10.9	
Toluene	29.6	1.0	"	33.3	88.9	65.9-127	0.643	11.3	
Ethylbenzene	28.5	1.0	"	33.3	85.6	65.1-129	2.52	20	
m,p-Xylene	62.8	2.0	"	66.7	94.2	66.8-127	3.68	20	
o-Xylene	31.0	1.0	"	33.3	93.1	61.2-120	2.38	20	
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.2	101	57.9-139			
Surrogate: Toluene-d8	13.1		"	13.3	98.6	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3	94.4	80.8-120			

LCS Dup (2020406-BSD2)

Prepared: 02/04/12 Analyzed: 02/06/12

Benzene	30.8	1.0	ug/l	33.3	92.3	60.1-131	1.90	10.9	
Toluene	32.1	1.0	"	33.3	96.4	65.9-127	1.38	11.3	
Ethylbenzene	31.5	1.0	"	33.3	94.4	65.1-129	1.99	20	
m,p-Xylene	69.3	2.0	"	66.7	104	66.8-127	1.62	20	
o-Xylene	34.2	1.0	"	33.3	103	61.2-120	1.15	20	
Surrogate: 1,2-Dichloroethane-d4	13.7		"	13.2	104	57.9-139			
Surrogate: Toluene-d8	13.0		"	13.3	97.5	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3	94.6	80.8-120			

Matrix Spike (2020406-MS1)

Source: R201199-01

Prepared: 02/04/12 Analyzed: 02/06/12

Benzene	26.2	1.0	ug/l	33.3	ND	78.5	52.7-130	19.3	
Toluene	27.1	1.0	"	33.3	ND	81.4	57-127	18.7	
Ethylbenzene	26.5	1.0	"	33.3	ND	79.5	59.2-127	20	
m,p-Xylene	57.8	2.0	"	66.7	ND	86.7	53.2-132	20	
o-Xylene	28.8	1.0	"	33.3	ND	86.6	56.3-117	20	
Surrogate: 1,2-Dichloroethane-d4	14.2		"	13.2	107	57.9-139			
Surrogate: Toluene-d8	13.2		"	13.3	98.8	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3	92.7	80.8-120			

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
02/10/12 07:32

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 2020406 - EPA 5030 Water MS

Matrix Spike (2020406-MS2)		Source: R201199-02			Prepared: 02/04/12		Analyzed: 02/06/12			
Benzene	85.3	1.0	ug/l	33.3	56.0	87.9	52.7-130		19.3	
Toluene	27.2	1.0	"	33.3	ND	81.5	57-127		18.7	
Ethylbenzene	26.6	1.0	"	33.3	ND	79.8	59.2-127		20	
m,p-Xylene	56.6	2.0	"	66.7	ND	85.0	53.2-132		20	
o-Xylene	28.2	1.0	"	33.3	ND	84.7	56.3-117		20	
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.2		110	57.9-139			
Surrogate: Toluene-d8	13.2		"	13.3		98.8	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.5	80.8-120			

Matrix Spike Dup (2020406-MSD1)		Source: R201199-01			Prepared: 02/04/12		Analyzed: 02/06/12			
Benzene	27.2	1.0	ug/l	33.3	ND	81.8	52.7-130	4.12	19.3	
Toluene	28.3	1.0	"	33.3	ND	84.8	57-127	4.15	18.7	
Ethylbenzene	27.0	1.0	"	33.3	ND	81.0	59.2-127	1.83	20	
m,p-Xylene	59.0	2.0	"	66.7	ND	88.5	53.2-132	2.11	20	
o-Xylene	29.0	1.0	"	33.3	ND	87.2	56.3-117	0.691	20	
Surrogate: 1,2-Dichloroethane-d4	14.4		"	13.2		109	57.9-139			
Surrogate: Toluene-d8	13.0		"	13.3		97.2	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.3		"	13.3		92.0	80.8-120			

Matrix Spike Dup (2020406-MSD2)		Source: R201199-02			Prepared: 02/04/12		Analyzed: 02/06/12			
Benzene	80.1	1.0	ug/l	33.3	56.0	72.3	52.7-130	6.29	19.3	
Toluene	26.3	1.0	"	33.3	ND	78.8	57-127	3.37	18.7	
Ethylbenzene	26.0	1.0	"	33.3	ND	78.1	59.2-127	2.13	20	
m,p-Xylene	55.4	2.0	"	66.7	ND	83.2	53.2-132	2.14	20	
o-Xylene	27.8	1.0	"	33.3	ND	83.4	56.3-117	1.57	20	
Surrogate: 1,2-Dichloroethane-d4	14.6		"	13.2		110	57.9-139			
Surrogate: Toluene-d8	13.4		"	13.3		100	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.1	80.8-120			

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
02/10/12 07:32

Notes and Definitions

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

Summit Scientific

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Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 16, 2012

John Cocroft
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: BC - Huck 41-28

Enclosed are the results of analyses for samples received by Summit Scientific on 04/06/12 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

S₂

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
04/16/12 20:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R204043-01	Water	04/06/12 12:05	04/06/12 17:00
MW02	R204043-02	Water	04/06/12 12:10	04/06/12 17:00
MW03	R204043-03	Water	04/06/12 12:15	04/06/12 17:00
MW04	R204043-04	Water	04/06/12 12:20	04/06/12 17:00

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
04/16/12 20:58

Page 1 of 1

R204043

Summit Scientific

741 Corporate Circle - Suite 1
Golden, Colorado 80401
303-277-0910 - 303-374-9933 Fax

Client: LT Environmental, Inc.		Project Manager: John Cocroft							
Project: BC - Huck 41-28		Project Number: 0345-11006							
Number	Sample Identification	Matrix	Type	Sample Date	Sample Time	Sampled By	Container	Qty	Analysis
B1-001	MW01	Water	Field Sample	4/16/12	1305	JB	Via Val - HCT	3	BZx
B2-001	MW02	Water	Field Sample		1310		Via Val - HCT	3	
B3-001	MW03	Water	Field Sample		1315		Via Val - HCT	3	
B4-001	MW04	Water	Field Sample		1320		Via Val - HCT	3	

Time Around Time (Check)
See the 7:00 Standard
8:00
Sample Integrity:
Impure? Yes No
4/16

Relinquished By: Date Time
Received By: Date Time

Relinquished By: 4/16/12 10:00 Date Time
Received By: 4/16/12 17:01 Date Time

Summit Scientific



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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
04/16/12 20:58

MW01
R204043-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 04/06/12 12:05

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	2041408	04/14/12	04/16/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 04/06/12 12:05

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		83.8 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		95.0 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.0 %	80.8-120		"	"	"	"	

Summit Scientific

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

Project: BC - Huck 41-28
Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
04/16/12 20:58

MW02
R204043-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 04/06/12 12:10

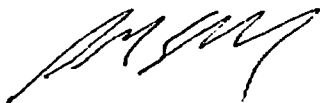
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2041408	04/14/12	04/16/12	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: 04/06/12 12:10

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		84.7 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		95.6 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.3 %		80.8-120		"	"	"	"	

Summit Scientific

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

Project: BC - Huck 41-28
Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
04/16/12 20:58

MW03
R204043-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 04/06/12 12:15

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2041408	04/14/12	04/16/12	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	1.0		"	"	"	"	"	"	

Date Sampled: 04/06/12 12:15

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		82.2 %		57.9-139		"	"	"	"	
Surrogate: Toluene-d8		94.4 %		83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.3 %		80.8-120		"	"	"	"	

Summit Scientific

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
04/16/12 20:58

MW04
R204043-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 04/06/12 12:20

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	2041408	04/14/12	04/16/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 04/06/12 12:20

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		82.5 %	57.9-139		"	"	"	"	
Surrogate: Toluene-d8		94.8 %	83.1-115		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.7 %	80.8-120		"	"	"	"	

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

Project: BC - Huck 41-28
Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
04/16/12 20:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch 2041408 - EPA 5030 Water MS

Blank (2041408-BLK1)

Prepared: 04/14/12 Analyzed: 04/15/12

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.0		"	13.2		90.4	57.9-139			
Surrogate: Toluene-d8	13.1		"	13.3		98.1	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.1	80.8-120			

LCS (2041408-BS1)

Prepared: 04/14/12 Analyzed: 04/15/12

Benzene	87.0	1.0	ug/l	100		87.0	60.1-131			
Toluene	86.7	1.0	"	100		86.7	65.9-127			
Ethylbenzene	89.2	1.0	"	100		89.2	65.1-129			
m,p-Xylene	173	2.0	"	200		86.7	66.8-127			
o-Xylene	87.4	1.0	"	100		87.4	61.2-120			
Surrogate: 1,2-Dichloroethane-d4	11.3		"	13.2		85.6	57.9-139			
Surrogate: Toluene-d8	13.1		"	13.3		98.3	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.7	80.8-120			

LCS Dup (2041408-BSD1)

Prepared: 04/14/12 Analyzed: 04/15/12

Benzene	85.4	1.0	ug/l	100		85.4	60.1-131	1.95	10.9	
Toluene	83.9	1.0	"	100		83.9	65.9-127	3.29	11.3	
Ethylbenzene	86.6	1.0	"	100		86.6	65.1-129	2.96	20	
m,p-Xylene	169	2.0	"	200		84.4	66.8-127	2.68	20	
o-Xylene	85.1	1.0	"	100		85.1	61.2-120	2.71	20	
Surrogate: 1,2-Dichloroethane-d4	11.7		"	13.2		88.3	57.9-139			
Surrogate: Toluene-d8	13.1		"	13.3		98.1	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.4		"	13.3		93.1	80.8-120			

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
04/16/12 20:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch 2041408 - EPA 5030 Water MS

Matrix Spike (2041408-MS1)		Source: R204037-01			Prepared: 04/14/12		Analyzed: 04/15/12			
Benzene	85.2	1.0	ug/l	100	0.580	84.6	52.7-130			
Toluene	83.8	1.0	"	100	ND	83.8	57-127			
Ethylbenzene	86.3	1.0	"	100	ND	86.3	59.2-127			
m,p-Xylene	168	2.0	"	200	ND	83.9	53.2-132			
o-Xylene	84.8	1.0	"	100	ND	84.8	56.3-117			
Surrogate: 1,2-Dichloroethane-d4	11.8		"	13.2		88.8	57.9-139			
Surrogate: Toluene-d8	13.1		"	13.3		98.3	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.0	80.8-120			
Matrix Spike Dup (2041408-MSD1)		Source: R204037-01			Prepared: 04/14/12		Analyzed: 04/16/12			
Benzene	84.2	1.0	ug/l	100	0.580	83.6	52.7-130	1.12	19.3	
Toluene	83.2	1.0	"	100	ND	83.2	57-127	0.658	18.7	
Ethylbenzene	85.3	1.0	"	100	ND	85.3	59.2-127	1.12	20	
m,p-Xylene	166	2.0	"	200	ND	83.2	53.2-132	0.873	20	
o-Xylene	83.6	1.0	"	100	ND	83.6	56.3-117	1.32	20	
Surrogate: 1,2-Dichloroethane-d4	11.8		"	13.2		89.3	57.9-139			
Surrogate: Toluene-d8	13.1		"	13.3		98.4	83.1-115			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.7	80.8-120			

Summit Scientific

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

Project: BC - Huck 41-28

Project Number: 0345-11006
Project Manager: John Cocroft

Reported:
04/16/12 20:58

Notes and Definitions

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

Summit Scientific



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.