

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 18, 2012

Brian Dodek
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: PDC - Dechant 1-31A

Enclosed are the results of analyses for samples received by Summit Scientific on 12/12/12 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Joseph J Egry IV
Laboratory Director



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

Project: PDC - Dechant 1-31A

Project Number: PDC 09028
Project Manager: Brian Dodek

Reported:
12/18/12 09:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW07	R212063-01	Water	12/12/12 14:30	12/12/12 17:00
MW09	R212063-02	Water	12/12/12 14:40	12/12/12 17:00
MW10R	R212063-03	Water	12/12/12 14:50	12/12/12 17:00
MW13	R212063-04	Water	12/12/12 15:00	12/12/12 17:00

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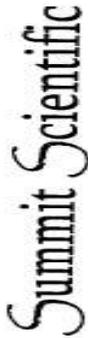
LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

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Project Number: PDC 09028
Project Manager: Brian Dodek

Reported:
12/18/12 09:52

R2/2063



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

Client: LT Environmental, Inc. Page 1 of 1
Address: 4600 West 60th Avenue
City/State/Zip: Arvada, CO 80003
Phone: (303) 433-9788
Sampler Name: Mike Winkler
Project Manager: Brian Dodek
E-Mail: bdodek@ltem.com
Fax: (303) 433-1432
Project Name: PDC 09028-31A
Project Number: PDC 09028

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative		Matrix		Analyze For:		Special Instructions			
				HCl	HNO ₃	Soil	Air - Canister Serial #	DRO	GBTEX		BTEX	pH / EC	SAR
MW07	12/12/12	1430	7			Soil							
MW04	7/1	1440				Groundwater							
MW10R		1450				Other (Specify)							
MW15		1500											
Relinquished by: <i>[Signature]</i>	Date/Time: 12/12/12 - 1700	Received by: <i>[Signature]</i>	Date/Time: 12/12/12 - 1700	Received in Lab by: <i>[Signature]</i>	Date/Time: 12/12/12 - 1700	Turn Around Time (Check):	72 Hours <input type="checkbox"/>	24 Hours <input type="checkbox"/>	48 Hours <input type="checkbox"/>	Standard <input checked="" type="checkbox"/>	Notes:		
Relinquished by:	Date/Time:	Received by:	Date/Time:	Received in Lab by:	Date/Time:	Sample Integrity:	Temperature Upon Receipt:	Inact: Yes No					

www.summit-sc.com

[Handwritten Signature]



LT Environmental, Inc.
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Reported:
 12/18/12 09:52

MW07
R212063-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/12/12 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2121310	12/13/12	12/14/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/12/12 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	45-146		"	"	"	"	

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Reported:
 12/18/12 09:52

MW09
R212063-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/12/12 14:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2121310	12/13/12	12/14/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: 12/12/12 14:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	45-146		"	"	"	"	

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Reported:
 12/18/12 09:52

MW10R
R212063-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/12/12 14:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	5.8	1.0	ug/l	1	2121310	12/13/12	12/15/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	350	100	"	100	"	"	12/14/12	"	
Xylenes (total)	7000	100	"	"	"	"	12/15/12	"	

Date Sampled: 12/12/12 14:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		124 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		63.1 %	45-146		"	"	"	"	

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Project: PDC - Dechant 1-31A

Project Number: PDC 09028
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Reported:
 12/18/12 09:52

MW13
R212063-04 (Water)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/12/12 15:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2121310	12/13/12	12/15/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	110	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	12/15/12	"	

Date Sampled: 12/12/12 15:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	37-154		"	"	12/15/12	"	
<i>Surrogate: Toluene-d8</i>		100 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		82.0 %	45-146		"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch 2121310 - EPA 5030 Water MS

Blank (2121310-BLK1)

Prepared: 12/13/12 Analyzed: 12/14/12

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	14.8		"	13.2		112	37-154				
Surrogate: Toluene-d8	13.3		"	13.3		99.7	45-149				
Surrogate: 4-Bromofluorobenzene	13.9		"	13.3		105	45-146				

Blank (2121310-BLK2)

Prepared: 12/13/12 Analyzed: 12/15/12

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.2		110	37-154				
Surrogate: Toluene-d8	13.2		"	13.3		98.7	45-149				
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3		105	45-146				

LCS (2121310-BS1)

Prepared: 12/13/12 Analyzed: 12/14/12

Benzene	24.8	1.0	ug/l	33.3		74.5	51-132				
Toluene	25.6	1.0	"	33.3		76.9	51-138				
Ethylbenzene	26.9	1.0	"	33.3		80.8	58-146				
m,p-Xylene	53.0	2.0	"	66.7		79.5	57-144				
o-Xylene	26.8	1.0	"	33.3		80.6	53-146				
Surrogate: 1,2-Dichloroethane-d4	15.1		"	13.2		114	37-154				
Surrogate: Toluene-d8	13.3		"	13.3		99.5	45-149				
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	45-146				

LCS (2121310-BS2)

Prepared: 12/13/12 Analyzed: 12/15/12

Benzene	24.2	1.0	ug/l	33.3		72.7	51-132				
Toluene	24.8	1.0	"	33.3		74.5	51-138				
Ethylbenzene	26.7	1.0	"	33.3		80.0	58-146				
m,p-Xylene	53.1	2.0	"	66.7		79.7	57-144				
o-Xylene	26.7	1.0	"	33.3		80.0	53-146				
Surrogate: 1,2-Dichloroethane-d4	14.6		"	13.2		111	37-154				
Surrogate: Toluene-d8	13.2		"	13.3		99.4	45-149				
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3		104	45-146				

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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 2121310 - EPA 5030 Water MS

LCS Dup (2121310-BSD1)

Prepared: 12/13/12 Analyzed: 12/14/12

Benzene	24.0	1.0	ug/l	33.3		71.9	51-132	3.48	17	
Toluene	24.9	1.0	"	33.3		74.7	51-138	2.85	17	
Ethylbenzene	25.9	1.0	"	33.3		77.7	58-146	3.94	16	
m,p-Xylene	51.5	2.0	"	66.7		77.2	57-144	2.89	16	
o-Xylene	25.8	1.0	"	33.3		77.4	53-146	3.99	15	
Surrogate: 1,2-Dichloroethane-d4	14.9		"	13.2		112	37-154			
Surrogate: Toluene-d8	13.4		"	13.3		100	45-149			
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		102	45-146			

LCS Dup (2121310-BSD2)

Prepared: 12/13/12 Analyzed: 12/15/12

Benzene	20.6	1.0	ug/l	33.3		61.7	51-132	16.4	17	
Toluene	21.4	1.0	"	33.3		64.1	51-138	15.1	17	
Ethylbenzene	25.4	1.0	"	33.3		76.1	58-146	5.03	16	
m,p-Xylene	54.8	2.0	"	66.7		82.2	57-144	3.11	16	
o-Xylene	28.8	1.0	"	33.3		86.3	53-146	7.50	15	
Surrogate: 1,2-Dichloroethane-d4	14.6		"	13.2		110	37-154			
Surrogate: Toluene-d8	13.2		"	13.3		98.9	45-149			
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	45-146			

Matrix Spike (2121310-MS1)

Source: R212059-01

Prepared: 12/13/12 Analyzed: 12/14/12

Benzene	26.9	1.0	ug/l	33.3	ND	80.7	34-141			
Toluene	28.0	1.0	"	33.3	ND	83.9	27-151			
Ethylbenzene	29.4	1.0	"	33.3	ND	88.2	29-160			
m,p-Xylene	58.7	2.0	"	66.7	ND	88.0	20-166			
o-Xylene	29.5	1.0	"	33.3	ND	88.4	33-159			
Surrogate: 1,2-Dichloroethane-d4	14.9		"	13.2		113	37-154			
Surrogate: Toluene-d8	13.4		"	13.3		101	45-149			
Surrogate: 4-Bromofluorobenzene	13.7		"	13.3		103	45-146			

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12/18/12 09:52

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

Batch 2121310 - EPA 5030 Water MS

Matrix Spike (2121310-MS2)

Source: R212059-02 Prepared: 12/13/12 Analyzed: 12/15/12

Benzene	27.2	1.0	ug/l	33.3	ND	81.5	34-141			
Toluene	28.0	1.0	"	33.3	ND	83.9	27-151			
Ethylbenzene	29.5	1.0	"	33.3	ND	88.5	29-160			
m,p-Xylene	58.9	2.0	"	66.7	ND	88.4	20-166			
o-Xylene	29.6	1.0	"	33.3	ND	88.9	33-159			
Surrogate: 1,2-Dichloroethane-d4	14.8		"	13.2		112	37-154			
Surrogate: Toluene-d8	13.2		"	13.3		99.2	45-149			
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3		104	45-146			

Matrix Spike Dup (2121310-MSD1)

Source: R212059-01 Prepared: 12/13/12 Analyzed: 12/14/12

Benzene	26.2	1.0	ug/l	33.3	ND	78.6	34-141	2.71	32
Toluene	27.1	1.0	"	33.3	ND	81.4	27-151	3.09	25
Ethylbenzene	28.3	1.0	"	33.3	ND	85.0	29-160	3.71	50
m,p-Xylene	56.9	2.0	"	66.7	ND	85.4	20-166	3.03	36
o-Xylene	28.6	1.0	"	33.3	ND	85.8	33-159	2.93	26
Surrogate: 1,2-Dichloroethane-d4	15.3		"	13.2		116	37-154		
Surrogate: Toluene-d8	13.2		"	13.3		98.6	45-149		
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3		105	45-146		

Matrix Spike Dup (2121310-MSD2)

Source: R212059-02 Prepared: 12/13/12 Analyzed: 12/15/12

Benzene	24.4	1.0	ug/l	33.3	ND	73.1	34-141	10.9	32
Toluene	25.4	1.0	"	33.3	ND	76.1	27-151	9.72	25
Ethylbenzene	26.6	1.0	"	33.3	ND	79.8	29-160	10.3	50
m,p-Xylene	53.4	2.0	"	66.7	ND	80.1	20-166	9.84	36
o-Xylene	26.8	1.0	"	33.3	ND	80.5	33-159	9.99	26
Surrogate: 1,2-Dichloroethane-d4	14.6		"	13.2		111	37-154		
Surrogate: Toluene-d8	13.3		"	13.3		99.9	45-149		
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	45-146		

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12/18/12 09:52

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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