

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

July 03, 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 06/26/12 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



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

Project: PDC - Dechant 1-31A  
Project Number: PDC 09028.001  
Project Manager: Brian Dodek

**Reported:**  
07/03/12 09:37

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW07	R206195-01	Water	06/26/12 09:40	06/26/12 17:00
MW09	R206195-02	Water	06/26/12 09:25	06/26/12 17:00
MW13	R206195-03	Water	06/26/12 09:55	06/26/12 17:00

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A handwritten signature in black ink, appearing to read 'MSM'.

*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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Arvada CO, 80003

Project: PDC - Dechant 1-31A

Project Number: PDC 09028.001  
Project Manager: Brian Dodek

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07/03/12 09:37

R206/195

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5

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Client:	I.T Environmental, Inc.	Page	of
Address:	4600 West 69th Avenue	Project Manager:	Brian Dodd
City/State/Zip:	Arvada, CO 80007	E-Mail:	bdodd@itenvi.com
Phone:	(303) 433-9788	Fax:	(303) 433-1432
Sample Name:	Devil Creek	Project Name:	DeLeon 1-31A
		Project Number:	PRC 6428.001

Page 1 of 1

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**MW07**  
**R206195-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/26/12 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2062811	06/28/12	07/01/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/26/12 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		99.1 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.1 %	50.1-150		"	"	"	"	

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**MW09**  
**R206195-02 (Water)**

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**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/26/12 09:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	2062811	06/28/12	07/01/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **06/26/12 09:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		105 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		98.8 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.5 %	50.1-150		"	"	"	"	

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07/03/12 09:37

**MW13**  
**R206195-03 (Water)**

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**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/26/12 09:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	2062811	06/28/12	07/01/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>150</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>13</b>	1.0	"	"	"	"	"	"	

Date Sampled: **06/26/12 09:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		106 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50.1-150		"	"	"	"	

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## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

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

#### Batch 2062811 - EPA 5030 Water MS

##### Blank (2062811-BLK1)

Prepared: 06/28/12 Analyzed: 06/30/12

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	49.7-150			
Surrogate: Toluene-d8	13.2		"	13.3		99.1	51-150			
Surrogate: 4-Bromofluorobenzene	13.7		"	13.3		103	50.1-150			

##### Blank (2062811-BLK2)

Prepared: 06/28/12 Analyzed: 06/30/12

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.3		"	13.2		101	49.7-150			
Surrogate: Toluene-d8	13.2		"	13.3		98.9	51-150			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.2	50.1-150			

##### LCS (2062811-BS1)

Prepared: 06/28/12 Analyzed: 06/30/12

Benzene	26.6	1.0	ug/l	33.3		79.8	56.7-114			
Toluene	26.9	1.0	"	33.3		80.8	50.7-130			
Ethylbenzene	28.3	1.0	"	33.3		85.0	54.2-143			
m,p-Xylene	56.4	2.0	"	66.7		84.7	58.3-134			
o-Xylene	27.2	1.0	"	33.3		81.7	57.4-134			
Surrogate: 1,2-Dichloroethane-d4	13.7		"	13.2		104	49.7-150			
Surrogate: Toluene-d8	13.1		"	13.3		98.6	51-150			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.2	50.1-150			

##### LCS (2062811-BS2)

Prepared: 06/28/12 Analyzed: 06/30/12

Benzene	26.7	1.0	ug/l	33.3		80.1	56.7-114			
Toluene	26.8	1.0	"	33.3		80.5	50.7-130			
Ethylbenzene	28.0	1.0	"	33.3		83.9	54.2-143			
m,p-Xylene	55.6	2.0	"	66.7		83.5	58.3-134			
o-Xylene	26.6	1.0	"	33.3		79.8	57.4-134			
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.2		102	49.7-150			
Surrogate: Toluene-d8	13.4		"	13.3		101	51-150			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.9	50.1-150			

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**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 2062811 - EPA 5030 Water MS**

**LCS Dup (2062811-BSD1)**

Prepared: 06/28/12 Analyzed: 06/30/12

Benzene	26.5	1.0	ug/l	33.3		79.5	56.7-114	0.414	14.6	
Toluene	26.7	1.0	"	33.3		80.2	50.7-130	0.745	18.9	
Ethylbenzene	28.8	1.0	"	33.3		86.3	54.2-143	1.58	11.9	
m,p-Xylene	57.0	2.0	"	66.7		85.4	58.3-134	0.917	13.7	
o-Xylene	27.2	1.0	"	33.3		81.5	57.4-134	0.294	15	
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.2		105	49.7-150			
Surrogate: Toluene-d8	13.3		"	13.3		99.6	51-150			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.1	50.1-150			

**LCS Dup (2062811-BSD2)**

Prepared: 06/28/12 Analyzed: 06/30/12

Benzene	26.4	1.0	ug/l	33.3		79.3	56.7-114	0.979	14.6	
Toluene	26.6	1.0	"	33.3		79.7	50.7-130	1.01	18.9	
Ethylbenzene	28.3	1.0	"	33.3		84.9	54.2-143	1.24	11.9	
m,p-Xylene	56.2	2.0	"	66.7		84.2	58.3-134	0.930	13.7	
o-Xylene	27.0	1.0	"	33.3		81.0	57.4-134	1.46	15	
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.2		105	49.7-150			
Surrogate: Toluene-d8	13.3		"	13.3		99.8	51-150			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.1	50.1-150			

**Matrix Spike (2062811-MS1)**

Source: R206189-01

Prepared: 06/28/12 Analyzed: 06/30/12

Benzene	26.4	1.0	ug/l	33.3	ND	79.4	33.5-135			
Toluene	26.7	1.0	"	33.3	ND	80.0	30-150			
Ethylbenzene	28.4	1.0	"	33.3	ND	85.1	30-150			
m,p-Xylene	56.5	2.0	"	66.7	ND	84.7	30-150			
o-Xylene	27.0	1.0	"	33.3	ND	81.1	44.8-147			
Surrogate: 1,2-Dichloroethane-d4	13.7		"	13.2		104	49.7-150			
Surrogate: Toluene-d8	13.0		"	13.3		97.9	51-150			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.4	50.1-150			

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**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 2062811 - EPA 5030 Water MS**

<b>Matrix Spike (2062811-MS2)</b>		<b>Source: R206189-02</b>			<b>Prepared: 06/28/12</b>		<b>Analyzed: 06/30/12</b>			
Benzene	24.2	1.0	ug/l	33.3	ND	72.5	33.5-135			
Toluene	24.4	1.0	"	33.3	ND	73.2	30-150			
Ethylbenzene	25.6	1.0	"	33.3	ND	76.9	30-150			
m,p-Xylene	56.5	2.0	"	66.7	ND	84.7	30-150			
o-Xylene	24.5	1.0	"	33.3	ND	73.5	44.8-147			
Surrogate: 1,2-Dichloroethane-d4	13.6		"	13.2		103	49.7-150			
Surrogate: Toluene-d8	13.3		"	13.3		99.9	51-150			
Surrogate: 4-Bromofluorobenzene	12.1		"	13.3		90.7	50.1-150			

<b>Matrix Spike Dup (2062811-MSD1)</b>		<b>Source: R206189-01</b>			<b>Prepared: 06/28/12</b>		<b>Analyzed: 06/30/12</b>			
Benzene	24.2	1.0	ug/l	33.3	ND	72.8	33.5-135	8.68	21.3	
Toluene	24.4	1.0	"	33.3	ND	73.2	30-150	8.93	15.5	
Ethylbenzene	25.5	1.0	"	33.3	ND	76.5	30-150	10.7	17.4	
m,p-Xylene	56.0	2.0	"	66.7	ND	83.9	30-150	0.960	18.1	
o-Xylene	24.3	1.0	"	33.3	ND	72.8	44.8-147	10.8	15	
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.2		102	49.7-150			
Surrogate: Toluene-d8	13.5		"	13.3		101	51-150			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.9	50.1-150			

<b>Matrix Spike Dup (2062811-MSD2)</b>		<b>Source: R206189-02</b>			<b>Prepared: 06/28/12</b>		<b>Analyzed: 06/30/12</b>			
Benzene	26.6	1.0	ug/l	33.3	ND	79.7	33.5-135	9.50	21.3	
Toluene	26.9	1.0	"	33.3	ND	80.6	30-150	9.56	15.5	
Ethylbenzene	28.6	1.0	"	33.3	ND	85.9	30-150	11.0	17.4	
m,p-Xylene	56.5	2.0	"	66.7	ND	84.8	30-150	0.0708	18.1	
o-Xylene	27.1	1.0	"	33.3	ND	81.2	44.8-147	9.93	15	
Surrogate: 1,2-Dichloroethane-d4	13.3		"	13.2		100	49.7-150			
Surrogate: Toluene-d8	13.4		"	13.3		100	51-150			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.5	50.1-150			

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### 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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