

# Summit Scientific

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February 08, 2010

Brian Dodek  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: PDC - Heldt 12-18

Enclosed are the results of analyses for samples received by Summit Scientific on 02/05/10 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'BS', with a long, sweeping horizontal line extending to the right.

Ben Shrewsbury  
President / Laboratory Director



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

Project: PDC - Heldt 12-18

Project Number: PDC 10005  
Project Manager: Brian Dodek

**Reported:**  
02/08/10 09:28

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Source1	R002029-01	Water	02/05/10 09:30	02/05/10 16:45
SW01	R002029-02	Water	02/05/10 09:40	02/05/10 16:45
SW02	R002029-03	Water	02/05/10 09:50	02/05/10 16:45
SW03	R002029-04	Water	02/05/10 10:00	02/05/10 16:45

Summit Scientific

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Project: PDC - Heldt 12-18

Project Number: PDC 10005  
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**Reported:**  
 02/08/10 09:28

**Source1**  
**R002029-01 (Water)**

**Summit Scientific**

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

Date Sampled: **02/05/10 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>15</b>	1.0	ug/l	1	0020605	02/06/10	02/07/10	EPA 8260B	
<b>Toluene</b>	<b>770</b>	10	"	10	"	"	"	"	
<b>Ethylbenzene</b>	<b>240</b>	1.0	"	1	"	"	"	"	
<b>Xylenes (total)</b>	<b>2800</b>	10	"	10	"	"	"	"	

Date Sampled: **02/05/10 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %	71.2-129		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.9 %	87.7-110		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	83.5-115		"	"	"	"	

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**Reported:**  
 02/08/10 09:28

**SW01**  
**R002029-02 (Water)**

**Summit Scientific**

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

Date Sampled: **02/05/10 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>2.6</b>	1.0	ug/l	1	0020605	02/06/10	02/07/10	EPA 8260B	
<b>Toluene</b>	<b>11</b>	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>6.9</b>	1.0	"	"	"	"	"	"	

Date Sampled: **02/05/10 09:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		113 %	71.2-129		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.0 %	87.7-110		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	83.5-115		"	"	"	"	

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**Reported:**  
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**SW02**  
**R002029-03 (Water)**

**Summit Scientific**

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

Date Sampled: **02/05/10 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>2.2</b>	1.0	ug/l	1	0020605	02/06/10	02/07/10	EPA 8260B	
<b>Toluene</b>	<b>9.2</b>	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>5.8</b>	1.0	"	"	"	"	"	"	

Date Sampled: **02/05/10 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		114 %	71.2-129		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.3 %	87.7-110		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		107 %	83.5-115		"	"	"	"	

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**SW03**  
**R002029-04 (Water)**

**Summit Scientific**

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

Date Sampled: **02/05/10 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	0020605	02/06/10	02/07/10	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **02/05/10 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	71.2-129		"	"	"	"	
Surrogate: Toluene-d8		95.8 %	87.7-110		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	83.5-115		"	"	"	"	

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

**Summit Scientific**

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

**Batch 0020605 - EPA 5030 Water MS**

**Blank (0020605-BLK1)**

Prepared: 02/06/10 Analyzed: 02/07/10

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	15.3		"	13.3		115	71.2-129				
Surrogate: Toluene-d8	12.8		"	13.3		96.3	87.7-110				
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3		104	83.5-115				

**LCS (0020605-BS1)**

Prepared: 02/06/10 Analyzed: 02/07/10

Benzene	24.9	1.0	ug/l	33.3		74.7	70-114		8.14		
Toluene	25.0	1.0	"	33.3		75.2	72.7-116		7.88		
Surrogate: 1,2-Dichloroethane-d4	15.4		"	13.3		115	71.2-129				
Surrogate: Toluene-d8	13.0		"	13.3		97.3	87.7-110				
Surrogate: 4-Bromofluorobenzene	13.9		"	13.3		105	83.5-115				

**LCS Dup (0020605-BSD1)**

Prepared: 02/06/10 Analyzed: 02/07/10

Benzene	27.2	1.0	ug/l	33.3		81.7	70-114	8.94	8.14		
Toluene	27.8	1.0	"	33.3		83.5	72.7-116	10.6	7.88		
Surrogate: 1,2-Dichloroethane-d4	15.6		"	13.3		117	71.2-129				
Surrogate: Toluene-d8	13.0		"	13.3		97.7	87.7-110				
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3		105	83.5-115				

**Matrix Spike (0020605-MS1)**

Source: R001108-02

Prepared: 02/06/10 Analyzed: 02/07/10

Benzene	29.0	1.0	ug/l	33.3	ND	87.0	66.8-121		17.8		
Toluene	29.5	1.0	"	33.3	ND	88.6	71.5-121		14.4		
Surrogate: 1,2-Dichloroethane-d4	15.5		"	13.3		116	71.2-129				
Surrogate: Toluene-d8	13.0		"	13.3		97.4	87.7-110				
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3		103	83.5-115				

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**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 0020605 - EPA 5030 Water MS**

<b>Matrix Spike Dup (0020605-MSD1)</b>	<b>Source: R001108-02</b>			Prepared: 02/06/10		Analyzed: 02/07/10				
Benzene	28.1	1.0	ug/l	33.3	ND	84.4	66.8-121	3.01	17.8	
Toluene	28.9	1.0	"	33.3	ND	86.8	71.5-121	2.09	14.4	
Surrogate: 1,2-Dichloroethane-d4	15.5		"	13.3		116	71.2-129			
Surrogate: Toluene-d8	13.1		"	13.3		98.3	87.7-110			
Surrogate: 4-Bromofluorobenzene	13.7		"	13.3		103	83.5-115			

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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