

# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.374.5933 - fax

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 be 'BS' or 'Shrewsbury', 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

*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.*

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

## Summit Scientific 20072019

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

Page 1 of 1

Client: LT Environmental, Inc.

Address: 4600 West 60th Avenue

City/State/Zip: Arvada, CO 80003

Phone: (303) 433-9788

**Fax: (303) 433-1432**

Sampler Name: 57

**Project Manager:** John Peterson

E-Mail: [ipeterson@ltenv.com](mailto:ipeterson@ltenv.com)

Project Name: Helld 12-18

Project Number: PISC 1035

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative					Matrix			Analyze For:					Special Instructions
				HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	DRO	GBTEX	BTEX			
S0002	3/5	0730	3	X				X									
S0001	3/5	0840	3	X				X									
S0003	3/5	0930	3	X				X									
S0003	3/5	1000	3	X				X									
Relinquished by: <i>[Signature]</i>	Date/Time: 3/5		1445	Received by:					Date/Time:			Turn Around Time (Check)			Notes:		
Relinquished by: <i>[Signature]</i>	Date/Time: 3/5			Received by:					Date/Time:			<input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hours <input checked="" type="checkbox"/> 48 Hours			<input type="checkbox"/> 72 Hours <input type="checkbox"/> Standard		
Relinquished by:	Date/Time:			Received in Lab by: <i>[Signature]</i>					Date/Time: 2-5-16			Sample Integrity: <input checked="" type="checkbox"/> Intact			Temperature Upon Receipt: 52		

www.s2scientific.com

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.*



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

**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>		<i>112 %</i>	<i>71.2-129</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>97.9 %</i>	<i>87.7-110</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>105 %</i>	<i>83.5-115</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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.*



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

**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
Surrogate: 1,2-Dichloroethane-d4		113 %	71.2-129		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	87.7-110		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	83.5-115		"	"	"	"	

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.



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

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

**Summit Scientific**

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

Date Sampled: 02/05/10 09:50

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

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.



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

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

**Summit Scientific**

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

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

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

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.



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

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

### Summit Scientific

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

#### 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				

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.





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

**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 0020605 - EPA 5030 Water MS**

Matrix Spike Dup (0020605-MSD1)		Source: R001108-02			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			

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.*



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

### 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

A handwritten signature in black ink, appearing to be 'J.M.' followed by a long horizontal stroke.