

# Summit Scientific

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September 04, 2012

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

RE: BC - Walden Water Flood Facility/Praxair Assess

Enclosed are the results of analyses for samples received by Summit Scientific on 08/23/12 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Joe Egry" with a stylized flourish at the end.

Joe Egry For Ben Shrewsbury  
President / Laboratory Director



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

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
 Project Manager: John Cocroft

**Reported:**  
 09/04/12 11:02

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB01@9.5'	R208158-01	Soil	08/21/12 10:55	08/23/12 16:00
SB02@11'	R208158-02	Soil	08/21/12 11:18	08/23/12 16:00
SB03@10.5'	R208158-03	Soil	08/21/12 11:35	08/23/12 16:00
SB04@9.5'	R208158-04	Soil	08/21/12 12:25	08/23/12 16:00
SB05@9.5'	R208158-05	Soil	08/21/12 15:10	08/23/12 16:00
SB06@14'	R208158-06	Soil	08/21/12 14:48	08/23/12 16:00
SB07@12'	R208158-07	Soil	08/21/12 14:22	08/23/12 16:00
SB08@9'	R208158-08	Soil	08/21/12 13:53	08/23/12 16:00
SB09@10.5'	R208158-09	Soil	08/21/12 13:40	08/23/12 16:00
SB10@12'	R208158-10	Soil	08/22/12 08:00	08/23/12 16:00
SB11@11'	R208158-11	Soil	08/22/12 08:20	08/23/12 16:00
SB12@9.5'	R208158-12	Soil	08/22/12 08:52	08/23/12 16:00
SB13@9.5'	R208158-13	Soil	08/22/12 09:20	08/23/12 16:00
SB14@8.5'	R208158-14	Soil	08/22/12 09:55	08/23/12 16:00
SB15@9'	R208158-15	Soil	08/22/12 10:17	08/23/12 16:00
SB16@8.5'	R208158-16	Soil	08/22/12 10:35	08/23/12 16:00
MW02	R208158-17	Water	08/22/12 12:20	08/23/12 16:00
MW09	R208158-18	Water	08/22/12 12:55	08/23/12 16:00
MW07	R208158-19	Water	08/22/12 12:45	08/23/12 16:00
MW11	R208158-20	Water	08/22/12 13:05	08/23/12 16:00
MW06	R208158-21	Water	08/22/12 12:40	08/23/12 16:00
MW10	R208158-22	Water	08/22/12 13:00	08/23/12 16:00
MW05	R208158-23	Water	08/22/12 12:35	08/23/12 16:00
MW01	R208158-24	Water	08/22/12 12:15	08/23/12 16:00
MW04	R208158-25	Water	08/22/12 12:30	08/23/12 16:00
MW03	R208158-26	Water	08/22/12 12:25	08/23/12 16:00
MW08	R208158-27	Water	08/22/12 12:50	08/23/12 16:00

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

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
Project Manager: John Cocroft

**Reported:**  
09/04/12 11:02

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW16	R208158-28	Water	08/22/12 13:30	08/23/12 16:00
MW15	R208158-29	Water	08/22/12 13:25	08/23/12 16:00
Trip Blank	R208158-30	Water	08/22/12 00:00	08/23/12 16:00

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Arvada CO, 80003

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
Project Manager: John Cocroft

Reported:  
09/04/12 11:02

**SB01@9.5'**  
**R208158-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/12 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (TEPH-DRO)</b>	<b>64</b>	50	mg/kg	1	2082708	08/27/12	08/28/12	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/12 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		127 %	30-150		"	"	"	"	

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

Date Sampled: **08/21/12 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.039</b>	0.0050	mg/kg	1	2082707	08/28/12	08/29/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.15</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>1.5</b>	0.0050	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>52</b>	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/12 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.7 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		107 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.8 %	30-150		"	"	"	"	

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Arvada CO, 80003

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
Project Manager: John Cocroft

Reported:  
09/04/12 11:02

**SB02@11'**  
**R208158-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/12 11:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (TEPH-DRO)</b>	<b>120</b>	50	mg/kg	1	2082708	08/27/12	08/28/12	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/12 11:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		132 %	30-150		"	"	"	"	

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

Date Sampled: **08/21/12 11:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.76</b>	0.0050	mg/kg	1	2082707	08/28/12	08/29/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.72</b>	0.50	"	100	"	"	"	"	
<b>Xylenes (total)</b>	<b>6.2</b>	0.50	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>360</b>	50	"	"	"	"	"	"	

Date Sampled: **08/21/12 11:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		91.7 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		96.4 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %	30-150		"	"	"	"	

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Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
Project Manager: John Cocroft

Reported:  
09/04/12 11:02

**SB03@10.5'**  
**R208158-03 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/12 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (TEPH-DRO)</b>	<b>88</b>	50	mg/kg	1	2082708	08/27/12	08/29/12	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/12 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		119 %	30-150		"	"	"	"	

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

Date Sampled: **08/21/12 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.17</b>	0.0050	mg/kg	1	2082707	08/28/12	08/29/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.80</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>3.5</b>	0.50	"	100	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>220</b>	50	"	"	"	"	"	"	

Date Sampled: **08/21/12 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.1 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		95.5 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %	30-150		"	"	"	"	

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Reported:  
09/04/12 11:02

**SB04@9.5'**  
**R208158-04 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/12 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (TEPH-DRO)</b>	<b>60</b>	50	mg/kg	1	2082708	08/27/12	08/29/12	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/12 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		138 %	30-150		"	"	"	"	

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

Date Sampled: **08/21/12 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2082707	08/28/12	08/29/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.20</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.36</b>	0.0050	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>41</b>	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/12 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.6 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		98.3 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.1 %	30-150		"	"	"	"	

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Reported:  
09/04/12 11:02

**SB05@9.5'**  
**R208158-05 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/12 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	2082708	08/27/12	08/29/12	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/12 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		129 %	30-150		"	"	"	"	

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

Date Sampled: **08/21/12 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2082707	08/28/12	08/29/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/12 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		99.7 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.8 %	30-150		"	"	"	"	

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Reported:  
09/04/12 11:02

**SB06@14'**  
**R208158-06 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/12 14:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	2082708	08/27/12	08/29/12	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/12 14:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		127 %	30-150		"	"	"	"	

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

Date Sampled: **08/21/12 14:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.026</b>	0.0050	mg/kg	1	2082707	08/28/12	08/29/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.038</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.15</b>	0.0050	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>5.8</b>	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/12 14:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		117 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.3 %	30-150		"	"	"	"	

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Project Number: 0345-12007  
Project Manager: John Cocroft

Reported:  
09/04/12 11:02

**SB07@12'**  
**R208158-07 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/12 14:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	2082708	08/27/12	08/29/12	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/12 14:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		125 %	30-150		"	"	"	"	

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

Date Sampled: **08/21/12 14:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2082707	08/28/12	08/29/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/12 14:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		98.7 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.4 %	30-150		"	"	"	"	

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Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
Project Manager: John Cocroft

Reported:  
09/04/12 11:02

**SB08@9'**  
**R208158-08 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/12 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (TEPH-DRO)</b>	<b>670</b>	50	mg/kg	1	2082708	08/27/12	08/29/12	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/12 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		117 %	30-150	"	"	"	"	"	

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

Date Sampled: **08/21/12 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.56</b>	0.50	mg/kg	100	2082707	08/28/12	08/29/12	EPA 8260B	
<b>Toluene</b>	<b>3.7</b>	0.50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1.1</b>	0.50	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>11</b>	0.50	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>480</b>	50	"	"	"	"	"	"	

Date Sampled: **08/21/12 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		87.6 %	30-150	"	"	"	"	"	
Surrogate: Toluene-d8		96.7 %	30-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.1 %	30-150	"	"	"	"	"	

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4600 West 60th Avenue  
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Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
Project Manager: John Cocroft

Reported:  
09/04/12 11:02

**SB09@10.5'**  
**R208158-09 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/12 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (TEPH-DRO)</b>	<b>230</b>	50	mg/kg	1	2082708	08/27/12	08/29/12	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/12 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		128 %	30-150		"	"	"	"	

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

Date Sampled: **08/21/12 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>1.2</b>	0.50	mg/kg	100	2082707	08/28/12	08/29/12	EPA 8260B	
<b>Toluene</b>	<b>11</b>	0.50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>3.8</b>	0.50	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>52</b>	0.50	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>1700</b>	50	"	"	"	"	"	"	

Date Sampled: **08/21/12 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.0 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		81.2 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		65.2 %	30-150		"	"	"	"	

Summit Scientific

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

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
Project Manager: John Cocroft

Reported:  
09/04/12 11:02

**SB10@12'**  
**R208158-10 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/22/12 08:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	2082708	08/27/12	08/29/12	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/22/12 08:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		127 %	30-150		"	"	"	"	

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

Date Sampled: **08/22/12 08:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2082707	08/28/12	08/29/12	EPA 8260B	
<b>Toluene</b>	<b>0.0057</b>	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.015</b>	0.0050	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>1.4</b>	0.50	"	"	"	"	"	"	

Date Sampled: **08/22/12 08:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.4 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		97.6 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.5 %	30-150		"	"	"	"	

Summit Scientific

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

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
Project Manager: John Cocroft

Reported:  
09/04/12 11:02

**SB11@11'**  
**R208158-11 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/22/12 08:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	66	50	mg/kg	1	2082708	08/27/12	08/29/12	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/22/12 08:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		130 %	30-150		"	"	"	"	

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

Date Sampled: **08/22/12 08:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2082707	08/28/12	08/29/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/22/12 08:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.1 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.6 %	30-150		"	"	"	"	

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

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
Project Manager: John Cocroft

Reported:  
09/04/12 11:02

**SB12@9.5'**  
**R208158-12 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/22/12 08:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	2082708	08/27/12	08/29/12	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/22/12 08:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		126 %	30-150		"	"	"	"	

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

Date Sampled: **08/22/12 08:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2082707	08/28/12	08/29/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/22/12 08:52**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.5 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		99.1 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.1 %	30-150		"	"	"	"	

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

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
Project Manager: John Cocroft

Reported:  
09/04/12 11:02

**SB13@9.5'**  
**R208158-13 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/22/12 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	66	50	mg/kg	1	2082708	08/27/12	08/29/12	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/22/12 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		124 %	30-150		"	"	"	"	

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

Date Sampled: **08/22/12 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2082707	08/28/12	08/29/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/22/12 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		100 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		98.5 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.9 %	30-150		"	"	"	"	

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

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
Project Manager: John Cocroft

Reported:  
09/04/12 11:02

**SB14@8.5'**  
**R208158-14 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/22/12 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	54	50	mg/kg	1	2082708	08/27/12	08/29/12	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/22/12 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		119 %	30-150		"	"	"	"	

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

Date Sampled: **08/22/12 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2082707	08/28/12	08/29/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/22/12 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		84.6 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		95.4 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.3 %	30-150		"	"	"	"	

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

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
Project Manager: John Cocroft

Reported:  
09/04/12 11:02

**SB15@9'**  
**R208158-15 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/22/12 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	2082708	08/27/12	08/29/12	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/22/12 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		127 %	30-150		"	"	"	"	

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

Date Sampled: **08/22/12 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2082707	08/28/12	08/29/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/22/12 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.2 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		98.8 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.4 %	30-150		"	"	"	"	

Summit Scientific

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

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
Project Manager: John Cocroft

Reported:  
09/04/12 11:02

**SB16@8.5'**  
**R208158-16 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/22/12 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	2082708	08/27/12	08/29/12	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/22/12 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		123 %	30-150		"	"	"	"	

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

Date Sampled: **08/22/12 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	2082707	08/28/12	08/29/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/22/12 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.0 %	30-150		"	"	"	"	
Surrogate: Toluene-d8		98.8 %	30-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.2 %	30-150		"	"	"	"	

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

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
 Project Manager: John Cocroft

**Reported:**  
 09/04/12 11:02

**MW02**  
**R208158-17 (Water)**

**Summit Scientific**

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

Date Sampled: **08/22/12 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>2100</b>	100	ug/l	100	2082913	08/29/12	08/30/12	EPA 8260B	
<b>Toluene</b>	<b>1.7</b>	1.0	"	1	"	"	"	"	
<b>Ethylbenzene</b>	<b>670</b>	100	"	100	"	"	"	"	
<b>Xylenes (total)</b>	<b>5400</b>	100	"	"	"	"	"	"	

Date Sampled: **08/22/12 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	49.7-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.6 %	51-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	50.1-150		"	"	"	"	

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

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
 Project Manager: John Cocroft

Reported:  
 09/04/12 11:02

**MW09**  
**R208158-18 (Water)**

**Summit Scientific**

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

Date Sampled: **08/22/12 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>1400</b>	100	ug/l	100	2082913	08/29/12	08/30/12	EPA 8260B	
<b>Toluene</b>	<b>1700</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>200</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>1700</b>	100	"	"	"	"	"	"	

Date Sampled: **08/22/12 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		84.0 %	49.7-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		130 %	51-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	50.1-150		"	"	"	"	

Summit Scientific

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

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
 Project Manager: John Cocroft

Reported:  
 09/04/12 11:02

**MW07**  
**R208158-19 (Water)**

**Summit Scientific**

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

Date Sampled: **08/22/12 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>1.5</b>	1.0	ug/l	1	2082913	08/29/12	08/30/12	EPA 8260B	
<b>Toluene</b>	<b>1.2</b>	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>4.6</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>33</b>	1.0	"	"	"	"	"	"	

Date Sampled: **08/22/12 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		91.0 %	49.7-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	51-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.8 %	50.1-150		"	"	"	"	

Summit Scientific

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

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
Project Manager: John Cocroft

Reported:  
09/04/12 11:02

**MW11**  
**R208158-20 (Water)**

**Summit Scientific**

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

Date Sampled: **08/22/12 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2082913	08/29/12	08/30/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/22/12 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		99.5 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50.1-150		"	"	"	"	

Summit Scientific

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

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
 Project Manager: John Cocroft

**Reported:**  
 09/04/12 11:02

**MW06**  
**R208158-21 (Water)**

**Summit Scientific**

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

Date Sampled: **08/22/12 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>1200</b>	100	ug/l	100	2082913	08/29/12	08/30/12	EPA 8260B	
<b>Toluene</b>	<b>4.9</b>	1.0	"	1	"	"	"	"	
<b>Ethylbenzene</b>	<b>300</b>	100	"	100	"	"	"	"	
<b>Xylenes (total)</b>	<b>1200</b>	100	"	"	"	"	"	"	

Date Sampled: **08/22/12 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	49.7-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		130 %	51-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.1 %	50.1-150		"	"	"	"	

Summit Scientific

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

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
 Project Manager: John Cocroft

**Reported:**  
 09/04/12 11:02

**MW10**  
**R208158-22 (Water)**

**Summit Scientific**

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

Date Sampled: **08/22/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>100</b>	1.0	ug/l	1	2082913	08/29/12	08/30/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>3.5</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>14</b>	1.0	"	"	"	"	"	"	

Date Sampled: **08/22/12 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		109 %	49.7-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.5 %	51-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	50.1-150		"	"	"	"	

Summit Scientific

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

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
 Project Manager: John Cocroft

Reported:  
 09/04/12 11:02

**MW05**  
**R208158-23 (Water)**

**Summit Scientific**

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

Date Sampled: **08/22/12 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2082913	08/29/12	08/30/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>2.2</b>	1.0	"	"	"	"	"	"	

Date Sampled: **08/22/12 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	49.7-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.5 %	51-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	50.1-150		"	"	"	"	

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

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
Project Manager: John Cocroft

Reported:  
09/04/12 11:02

**MW01**  
**R208158-24 (Water)**

**Summit Scientific**

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

Date Sampled: **08/22/12 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>810</b>	100	ug/l	100	2082913	08/29/12	08/30/12	EPA 8260B	
<b>Toluene</b>	<b>1.3</b>	1.0	"	1	"	"	"	"	
<b>Ethylbenzene</b>	<b>400</b>	100	"	100	"	"	"	"	
<b>Xylenes (total)</b>	<b>840</b>	1.0	"	1	"	"	"	"	

Date Sampled: **08/22/12 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		108 %	49.7-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.8 %	51-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	50.1-150		"	"	"	"	

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

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
 Project Manager: John Cocroft

**Reported:**  
 09/04/12 11:02

**MW04**  
**R208158-25 (Water)**

**Summit Scientific**

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

Date Sampled: **08/22/12 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>6.6</b>	1.0	ug/l	1	2082913	08/29/12	08/30/12	EPA 8260B	
<b>Toluene</b>	<b>7.9</b>	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>200</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>410</b>	1.0	"	"	"	"	"	"	

Date Sampled: **08/22/12 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.2 %	49.7-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		142 %	51-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	50.1-150		"	"	"	"	

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

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
 Project Manager: John Cocroft

**Reported:**  
 09/04/12 11:02

**MW03**  
**R208158-26 (Water)**

**Summit Scientific**

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

Date Sampled: **08/22/12 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>560</b>	100	ug/l	100	2082913	08/29/12	08/30/12	EPA 8260B	
<b>Toluene</b>	<b>100</b>	1.0	"	1	"	"	"	"	
<b>Ethylbenzene</b>	<b>480</b>	100	"	100	"	"	"	"	
<b>Xylenes (total)</b>	<b>2500</b>	100	"	"	"	"	"	"	

Date Sampled: **08/22/12 12:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		83.4 %	49.7-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		144 %	51-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	50.1-150		"	"	"	"	

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 Arvada CO, 80003

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
 Project Manager: John Cocroft

Reported:  
 09/04/12 11:02

**MW08**  
**R208158-27 (Water)**

**Summit Scientific**

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

Date Sampled: **08/22/12 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>7000</b>	100	ug/l	100	2082913	08/29/12	08/30/12	EPA 8260B	
<b>Toluene</b>	<b>13000</b>	100	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>830</b>	100	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>7800</b>	100	"	"	"	"	"	"	

Date Sampled: **08/22/12 12:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	49.7-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	51-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	50.1-150		"	"	"	"	

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 4600 West 60th Avenue  
 Arvada CO, 80003

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
 Project Manager: John Cocroft

Reported:  
 09/04/12 11:02

**MW16**  
**R208158-28 (Water)**

**Summit Scientific**

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

Date Sampled: **08/22/12 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2082913	08/29/12	08/30/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/22/12 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		99.6 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	50.1-150		"	"	"	"	

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 Arvada CO, 80003

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
 Project Manager: John Cocroft

Reported:  
 09/04/12 11:02

**MW15**  
**R208158-29 (Water)**

**Summit Scientific**

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

Date Sampled: **08/22/12 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>4.7</b>	1.0	ug/l	1	2082913	08/29/12	08/30/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/22/12 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	49.7-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	51-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.8 %	50.1-150		"	"	"	"	

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 Arvada CO, 80003

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
 Project Manager: John Cocroft

**Reported:**  
 09/04/12 11:02

**Trip Blank**  
**R208158-30 (Water)**

**Summit Scientific**

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

Date Sampled: **08/22/12 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2082913	08/29/12	08/30/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/22/12 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		100 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50.1-150		"	"	"	"	

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

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
Project Manager: John Cocroft

Reported:  
09/04/12 11:02

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch 2082708 - EPA 3550A**

**Blank (2082708-BLK1)**

Prepared: 08/27/12 Analyzed: 08/29/12

C10-C28 (TEPH-DRO)	ND	50	mg/kg							
C28-C36 (TEPH-ORO)	ND	50	"							

**Blank (2082708-BLK2)**

Prepared: 08/27/12 Analyzed: 08/29/12

C10-C28 (TEPH-DRO)	ND	50	mg/kg							
C28-C36 (TEPH-ORO)	ND	50	"							

**LCS (2082708-BS1)**

Prepared: 08/27/12 Analyzed: 08/29/12

C10-C28 (TEPH-DRO)	458	50	mg/kg	501		91.4	77-133			
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**LCS (2082708-BS2)**

Prepared: 08/27/12 Analyzed: 08/29/12

C10-C28 (TEPH-DRO)	425	50	mg/kg	501		84.9	77-133			
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**LCS Dup (2082708-BSD1)**

Prepared: 08/27/12 Analyzed: 08/29/12

C10-C28 (TEPH-DRO)	460	50	mg/kg	501		91.7	77-133	0.363	11	
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**LCS Dup (2082708-BSD2)**

Prepared: 08/27/12 Analyzed: 08/29/12

C10-C28 (TEPH-DRO)	444	50	mg/kg	501		88.5	77-133	4.22	11	
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**Matrix Spike (2082708-MS1)**

Source: R208158-01

Prepared: 08/27/12 Analyzed: 08/29/12

C10-C28 (TEPH-DRO)	481	50	mg/kg	500	64.3	83.4	68-141			
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**Matrix Spike (2082708-MS2)**

Source: R208166-02

Prepared: 08/27/12 Analyzed: 08/29/12

C10-C28 (TEPH-DRO)	444	50	mg/kg	497	51.0	79.1	68-141			
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**Matrix Spike Dup (2082708-MSD1)**

Source: R208158-01

Prepared: 08/27/12 Analyzed: 08/29/12

C10-C28 (TEPH-DRO)	432	50	mg/kg	483	64.3	76.2	68-141	10.8	23	
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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO, 80003

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
 Project Manager: John Cocroft

**Reported:**  
 09/04/12 11:02

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch 2082708 - EPA 3550A**

<b>Matrix Spike Dup (2082708-MSD2)</b>	<b>Source: R208166-02</b>			Prepared: 08/27/12		Analyzed: 08/29/12				
C10-C28 (TEPH-DRO)	434	50	mg/kg	489	51.0	78.3	68-141	2.32	23	

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Arvada CO, 80003

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
Project Manager: John Cocroft

Reported:  
09/04/12 11:02

**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 2082707 - EPA 5030 Soil MS**

**Blank (2082707-BLK1)**

Prepared & Analyzed: 08/28/12

Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0397		"	0.0397	100	30-150				
Surrogate: Toluene-d8	0.0394		"	0.0400	98.5	30-150				
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400	96.7	30-150				

**Blank (2082707-BLK2)**

Prepared & Analyzed: 08/28/12

Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0388		"	0.0397	97.9	30-150				
Surrogate: Toluene-d8	0.0391		"	0.0400	97.6	30-150				
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400	95.8	30-150				

**LCS (2082707-BS1)**

Prepared & Analyzed: 08/28/12

Benzene	0.0543	0.0050	mg/kg	0.0500	109	58-126				
Toluene	0.0559	0.0050	"	0.0500	112	60-132				
Ethylbenzene	0.0591	0.0050	"	0.0500	118	74-138				
m,p-Xylene	0.118	0.010	"	0.100	118	72-135				
o-Xylene	0.0569	0.0050	"	0.0500	114	73-139				
Surrogate: 1,2-Dichloroethane-d4	0.0399		"	0.0397	101	30-150				
Surrogate: Toluene-d8	0.0390		"	0.0400	97.5	30-150				
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400	99.5	30-150				

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Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
Project Manager: John Cocroft

Reported:  
09/04/12 11:02

**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 2082707 - EPA 5030 Soil MS**

**LCS (2082707-BS2)**

Prepared & Analyzed: 08/28/12

Benzene	0.0544	0.0050	mg/kg	0.0500		109	58-126			
Toluene	0.0558	0.0050	"	0.0500		112	60-132			
Ethylbenzene	0.0593	0.0050	"	0.0500		119	74-138			
m,p-Xylene	0.118	0.010	"	0.100		118	72-135			
o-Xylene	0.0574	0.0050	"	0.0500		115	73-139			
Surrogate: 1,2-Dichloroethane-d4	0.0386		"	0.0397		97.3	30-150			
Surrogate: Toluene-d8	0.0390		"	0.0400		97.4	30-150			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	30-150			

**LCS Dup (2082707-BSD1)**

Prepared & Analyzed: 08/28/12

Benzene	0.0538	0.0050	mg/kg	0.0500		108	58-126	0.999	13	
Toluene	0.0543	0.0050	"	0.0500		109	60-132	2.89	14	
Ethylbenzene	0.0580	0.0050	"	0.0500		116	74-138	2.00	13	
m,p-Xylene	0.117	0.010	"	0.100		117	72-135	0.714	14	
o-Xylene	0.0558	0.0050	"	0.0500		112	73-139	1.92	13	
Surrogate: 1,2-Dichloroethane-d4	0.0408		"	0.0397		103	30-150			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	30-150			
Surrogate: 4-Bromofluorobenzene	0.0407		"	0.0400		102	30-150			

**LCS Dup (2082707-BSD2)**

Prepared & Analyzed: 08/28/12

Benzene	0.0508	0.0050	mg/kg	0.0500		102	58-126	6.78	13	
Toluene	0.0519	0.0050	"	0.0500		104	60-132	7.30	14	
Ethylbenzene	0.0538	0.0050	"	0.0500		108	74-138	9.66	13	
m,p-Xylene	0.109	0.010	"	0.100		109	72-135	8.25	14	
o-Xylene	0.0537	0.0050	"	0.0500		107	73-139	6.64	13	
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0397		105	30-150			
Surrogate: Toluene-d8	0.0396		"	0.0400		99.0	30-150			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.0	30-150			

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Arvada CO, 80003

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
Project Manager: John Cocroft

Reported:  
09/04/12 11:02

**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 2082707 - EPA 5030 Soil MS**

<b>Matrix Spike (2082707-MS1)</b>		<b>Source: R208166-01</b>			<b>Prepared &amp; Analyzed: 08/28/12</b>						
Benzene	0.0514	0.0050	mg/kg	0.0494	ND	104	33-127				
Toluene	0.0521	0.0050	"	0.0494	ND	105	32-131				
Ethylbenzene	0.0553	0.0050	"	0.0494	ND	112	24-153				
m,p-Xylene	0.111	0.010	"	0.0988	ND	112	12-157				
o-Xylene	0.0540	0.0050	"	0.0494	ND	109	35-149				
Surrogate: 1,2-Dichloroethane-d4	0.0389		"	0.0392		99.1	30-150				
Surrogate: Toluene-d8	0.0390		"	0.0395		98.6	30-150				
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0395		98.5	30-150				

<b>Matrix Spike (2082707-MS2)</b>		<b>Source: R208167-01</b>			<b>Prepared &amp; Analyzed: 08/28/12</b>						
Benzene	0.0486	0.0050	mg/kg	0.0478	ND	102	33-127				
Toluene	0.0488	0.0050	"	0.0478	ND	102	32-131				
Ethylbenzene	0.0517	0.0050	"	0.0478	ND	108	24-153				
m,p-Xylene	0.104	0.010	"	0.0956	ND	109	12-157				
o-Xylene	0.0503	0.0050	"	0.0478	ND	105	35-149				
Surrogate: 1,2-Dichloroethane-d4	0.0376		"	0.0380		99.1	30-150				
Surrogate: Toluene-d8	0.0374		"	0.0382		97.9	30-150				
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0382		99.2	30-150				

<b>Matrix Spike Dup (2082707-MSD1)</b>		<b>Source: R208166-01</b>			<b>Prepared &amp; Analyzed: 08/28/12</b>						
Benzene	0.0489	0.0050	mg/kg	0.0488	ND	100	33-127	4.88	33		
Toluene	0.0501	0.0050	"	0.0488	ND	103	32-131	3.77	31		
Ethylbenzene	0.0540	0.0050	"	0.0488	ND	111	24-153	2.53	23		
m,p-Xylene	0.107	0.010	"	0.0977	ND	109	12-157	3.51	67		
o-Xylene	0.0522	0.0050	"	0.0488	ND	107	35-149	3.40	38		
Surrogate: 1,2-Dichloroethane-d4	0.0396		"	0.0388		102	30-150				
Surrogate: Toluene-d8	0.0379		"	0.0391		97.1	30-150				
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0391		98.3	30-150				

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

Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
Project Manager: John Cocroft

Reported:  
09/04/12 11:02

**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 2082707 - EPA 5030 Soil MS**

Matrix Spike Dup (2082707-MSD2)	Source: R208167-01			Prepared & Analyzed: 08/28/12						
Benzene	0.0499	0.0050	mg/kg	0.0499	ND	100	33-127	2.63	33	
Toluene	0.0501	0.0050	"	0.0499	ND	100	32-131	2.58	31	
Ethylbenzene	0.0534	0.0050	"	0.0499	ND	107	24-153	3.24	23	
m,p-Xylene	0.106	0.010	"	0.0998	ND	106	12-157	1.50	67	
o-Xylene	0.0517	0.0050	"	0.0499	ND	104	35-149	2.75	38	
Surrogate: 1,2-Dichloroethane-d4	0.0399		"	0.0396		101	30-150			
Surrogate: Toluene-d8	0.0389		"	0.0399		97.5	30-150			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0399		99.5	30-150			

**Batch 2082913 - EPA 5030 Water MS**

Blank (2082913-BLK1)	Prepared & Analyzed: 08/29/12									
Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.2		101	49.7-150			
Surrogate: Toluene-d8	13.2		"	13.3		98.7	51-150			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		98.9	50.1-150			

Blank (2082913-BLK2)	Prepared: 08/29/12 Analyzed: 08/30/12									
Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.7		"	13.2		104	49.7-150			
Surrogate: Toluene-d8	13.2		"	13.3		99.2	51-150			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		101	50.1-150			

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Project Number: 0345-12007  
Project Manager: John Cocroft

Reported:  
09/04/12 11:02

**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 2082913 - EPA 5030 Water MS**

**LCS (2082913-BS1)**

Prepared: 08/29/12 Analyzed: 08/30/12

Benzene	15.2	1.0	ug/l	16.7		91.2	50-125			
Toluene	15.4	1.0	"	16.7		92.6	51-130			
Ethylbenzene	17.0	1.0	"	16.7		102	56-141			
m,p-Xylene	32.2	2.0	"	33.3		96.5	56-138			
o-Xylene	15.8	1.0	"	16.7		95.0	51-142			
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.2		101	49.7-150			
Surrogate: Toluene-d8	13.2		"	13.3		98.6	51-150			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.2	50.1-150			

**LCS Dup (2082913-BSD1)**

Prepared: 08/29/12 Analyzed: 08/30/12

Benzene	17.6	1.0	ug/l	16.7		106	50-125	14.6	14.6	
Toluene	17.8	1.0	"	16.7		107	51-130	14.1	18.9	
Ethylbenzene	19.5	1.0	"	16.7		117	56-141	13.9	11.9	
m,p-Xylene	37.1	2.0	"	33.3		111	56-138	14.3	13.7	
o-Xylene	18.0	1.0	"	16.7		108	51-142	13.0	15	
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.2		98.8	49.7-150			
Surrogate: Toluene-d8	13.1		"	13.3		98.0	51-150			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.5	50.1-150			

**Matrix Spike (2082913-MS1)**

Source: R208169-06

Prepared: 08/29/12 Analyzed: 08/30/12

Benzene	19.0	1.0	ug/l	16.7	ND	114	41-127			
Toluene	18.6	1.0	"	16.7	ND	112	32-140			
Ethylbenzene	19.9	1.0	"	16.7	ND	119	32-151			
m,p-Xylene	37.8	2.0	"	33.3	ND	114	29-153			
o-Xylene	18.6	1.0	"	16.7	ND	112	34-152			
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.2		102	49.7-150			
Surrogate: Toluene-d8	13.1		"	13.3		98.1	51-150			
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		101	50.1-150			

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Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007  
Project Manager: John Cocroft

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09/04/12 11:02

**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 2082913 - EPA 5030 Water MS**

<b>Matrix Spike (2082913-MS2)</b>	<b>Source: R208169-07</b>			Prepared: 08/29/12		Analyzed: 08/30/12				
Benzene	15.6	1.0	ug/l	16.7	ND	93.4	41-127			
Toluene	15.4	1.0	"	16.7	ND	92.2	32-140			
Ethylbenzene	16.6	1.0	"	16.7	ND	99.4	32-151			
m,p-Xylene	31.6	2.0	"	33.3	ND	94.9	29-153			
o-Xylene	15.4	1.0	"	16.7	ND	92.3	34-152			
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.2		99.3	49.7-150			
Surrogate: Toluene-d8	13.2		"	13.3		99.1	51-150			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.0	50.1-150			

<b>Matrix Spike Dup (2082913-MSD1)</b>	<b>Source: R208169-06</b>			Prepared: 08/29/12		Analyzed: 08/30/12		<b>QM-07</b>		
Benzene	23.4	1.0	ug/l	16.7	ND	140	41-127	20.6	21.3	
Toluene	23.1	1.0	"	16.7	ND	139	32-140	21.8	15.5	
Ethylbenzene	24.7	1.0	"	16.7	ND	148	32-151	21.4	17.4	
m,p-Xylene	47.0	2.0	"	33.3	ND	141	29-153	21.5	18.1	
o-Xylene	23.2	1.0	"	16.7	ND	140	34-152	22.1	15	
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.2		100	49.7-150			
Surrogate: Toluene-d8	13.2		"	13.3		99.2	51-150			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		100	50.1-150			

<b>Matrix Spike Dup (2082913-MSD2)</b>	<b>Source: R208169-07</b>			Prepared: 08/29/12		Analyzed: 08/30/12		<b>QM-07</b>		
Benzene	23.4	1.0	ug/l	16.7	ND	141	41-127	40.5	21.3	
Toluene	23.0	1.0	"	16.7	ND	138	32-140	39.9	15.5	
Ethylbenzene	24.9	1.0	"	16.7	ND	149	32-151	40.0	17.4	
m,p-Xylene	47.3	2.0	"	33.3	ND	142	29-153	39.7	18.1	
o-Xylene	23.5	1.0	"	16.7	ND	141	34-152	41.7	15	
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.2		105	49.7-150			
Surrogate: Toluene-d8	13.1		"	13.3		98.0	51-150			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.7	50.1-150			

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Project Number: 0345-12007  
Project Manager: John Cocroft

**Reported:**  
09/04/12 11:02

### Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- 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