

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

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".

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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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: 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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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

- R208/58.1

Summit Scientific

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Page 1 of 3

Client: LTE
Address: 4600 West 60th Avenue
City/State/Zip: Arvada CO 80003
Phone: 303-433-9788 Fax: 303-433-1432
Sampler Name: Phillip Hamlin
Project Manager: J Cocroft
E-Mail: jcocroft@ltenv.com
Project Name: Walden Water Flood Facility/Praxair Assessment
Project Number: 0345-12007

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative		Matrix		Analyze For:										Special Instructions		
				HCl	None	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	DR/ORO	GBTEX	PH / EC / SAR	910 metals	TCLP As	BTEX	Low LVI TPH				
SB01@0.5'	8/21/2012	1055	1	X																
SB02@1'	8/21/2012	1118	1	X																
SB03@10.5'	8/21/2012	1135	1	X																
SB04@0.5'	8/21/2012	1225	1	X																
SB05@0.5'	8/21/2012	1510	1	X																
SB06@14'	8/21/2012	1448	1	X																
SB07@12'	8/21/2012	1422	1	X																
SB08@9'	8/21/2012	1353	1	X																
SB09@10.5'	8/21/2012	1340	1	X																
SB10@12'	8/22/2012	800	1	X																

Relinquished by: <i>[Signature]</i>	Date/Time: 8/22/12	Received by: <i>[Signature]</i>	Date/Time: 8/23/12	Turn Around Time (Check): Same Day <input type="checkbox"/> 24 Hours <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 51 Inact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

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[Signature]

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

R208/58.2

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Page 2 of 3

Client: LTE

Address:	4600 west 60th Avenue	Project Manager:	J Corroff
City/State/Zip:	Arvada CO 80003	E-Mail:	jcorroff@new.com
Phone:	303 433 9788	Project Name:	Walden Water Flood Facility Prairie Assessment
Sample Name:	Phillip Hamlin	Project Number:	0345 12007

Sample Description		Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:				Special Instructions		
					HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	DBO/DRO	GBTEX	PH/EC/SAR	TCLP As		BTEX	Low Lvl TPH
SB112611	8/22/2012	8:20		1									X	X					
SB1209.5	8/22/2012	8:52		1									X	X					
SB1309.5	8/22/2012	9:20		1									X	X					
SB1428.5	8/22/2012	9:55		1									X	X					
SB1528	8/22/2012	10:17		1									X	X					
SB1628.5	8/22/2012	10:35		1									X	X					
MW02	8/22/2012	12:20		3	X	X			X							X			
MW09	8/22/2012	12:55		3	X	X			X							X			
MW07	8/22/2012	12:45		3	X	X			X							X			
MW11	8/22/2012	13:05		1	X	X			X							X			

Requested by: *W/P 8/22/12*

Requested by: *[Signature]*

Date Time: *8/23/12*

Date Time: *8/23/12*

Received by: *[Signature]*

Received by: *[Signature]*

Turn Around Time (Check)
Same Day ☐
24 Hours ☐
48 Hours ☐
72 Hours ☐
Standard ☒

Notes:

Sample Integrity: *SI*

Temperature Upon Receipt: *57*

Intact: ☒ Yes ☐ No

Date Time: *8/23/12*

Date Time: *8/23/12*

Received in Lab by: *[Signature]*

Received in Lab by: *[Signature]*

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Regel IV

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

R208158.3

Summit Scientific

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Page 3 of 3Client: LTE

Address:	4600 west 60th Avenue
City/State/Zip:	Arvada CO 80003
Phone:	303 431 9788
Fac:	303 433 1432
Project Manager:	J Cocroft
E-Mail:	joocroft@slaw.com
Project Name:	Walden Water Flood Facility Prairie Assessment
Project Number:	0345 12007
Sample Name:	Phillip Hamlin

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:	Special Instructions							
				HCl	HNO ₃	Other (Specify)	Groundwater	Soil	Alr - Canister Serial #										
MW06	8/22/2012	1240	3K	X			X			Alr - Canister Serial #	Other (Specify)	DRO/ORO	GBTEX	PH / EC / SAR	910 metals	TCLP As	BTEX	Low LVI TPH	
MW10	8/22/2012	1300	3K	X			X												
MW05	8/22/2012	1235	3K	X			X												
MW01	8/22/2012	1215	3K	X			X												
MW04	8/22/2012	1230	3K	X			X												
MW03	8/22/2012	1225	3K	X			X												
MW08	8/22/2012	1250	3K	X			X												
MW16	8/22/2012	1330	3K	X			X												
MW15	8/22/2012	1325	3K	X			X												
Trips blank	N/A	N/A	2K	X			X												
Requested by: <i>MA 8/31/12</i>				Date/Time: <i>8/31/12</i>	Received by: <i>[Signature]</i>	Date/Time: <i>16:20</i>	Turn Around Time (Check) Same Day <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/>				Notes: <input type="checkbox"/> 72 Hours <input checked="" type="checkbox"/> Standard X								
Requested by: <i>[Signature]</i>				Date/Time: <i>8/31/12</i>	Received by: <i>[Signature]</i>	Date/Time: <i>16:20</i>	Sample Integrity: Temperature Upon Receipt: <i>58</i> Inact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No												
Requested by: <i>[Signature]</i>				Date/Time: <i>8/31/12</i>	Received in Lab by: <i>[Signature]</i>	Date/Time: <i>8/31/12</i>													

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Carol Lynn IV



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

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
C10-C28 (TEPH-DRO)	64	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
Benzene	0.039	0.0050	mg/kg	1	2082707	08/28/12	08/29/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.15	0.0050	"	"	"	"	"	"	
Xylenes (total)	1.5	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	52	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
C10-C28 (TEPH-DRO)	120	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
Benzene	0.76	0.0050	mg/kg	1	2082707	08/28/12	08/29/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.72	0.50	"	100	"	"	"	"	
Xylenes (total)	6.2	0.50	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	360	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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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

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
C10-C28 (TEPH-DRO)	88	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
Benzene	0.17	0.0050	mg/kg	1	2082707	08/28/12	08/29/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.80	0.0050	"	"	"	"	"	"	
Xylenes (total)	3.5	0.50	"	100	"	"	"	"	
Gasoline Range Hydrocarbons	220	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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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

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
C10-C28 (TEPH-DRO)	60	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: o-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	"	"	"	"	"	"	
Ethylbenzene	0.20	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.36	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	41	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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Project: BC - Walden Water Flood Facility/Praxair Assess

Project Number: 0345-12007
Project Manager: John Cocroft

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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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

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
Benzene	0.026	0.0050	mg/kg	1	2082707	08/28/12	08/29/12	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.038	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.15	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	5.8	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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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

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: o-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		"	"	"	"	

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

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
C10-C28 (TEPH-DRO)	670	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
Benzene	0.56	0.50	mg/kg	100	2082707	08/28/12	08/29/12	EPA 8260B	
Toluene	3.7	0.50	"	"	"	"	"	"	
Ethylbenzene	1.1	0.50	"	"	"	"	"	"	
Xylenes (total)	11	0.50	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	480	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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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

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
C10-C28 (TEPH-DRO)	230	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: o-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
Benzene	1.2	0.50	mg/kg	100	2082707	08/28/12	08/29/12	EPA 8260B	
Toluene	11	0.50	"	"	"	"	"	"	
Ethylbenzene	3.8	0.50	"	"	"	"	"	"	
Xylenes (total)	52	0.50	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1700	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		"	"	"	"	

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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: o-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	
Toluene	0.0057	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.015	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.4	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		"	"	"	"	

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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: o-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: o-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: o-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		"	"	"	"	

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

MW02
R208158-17 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<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		"	"	"	"	

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

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

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

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

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<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		"	"	"	"	

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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
Benzene	100	1.0	ug/l	1	2082913	08/29/12	08/30/12	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	3.5	1.0	"	"	"	"	"	"	
Xylenes (total)	14	1.0	"	"	"	"	"	"	

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

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

MW05
R208158-23 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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)	2.2	1.0	"	"	"	"	"	"	

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		101 %	49.7-150		"	"	"	"	
Surrogate: Toluene-d8		98.5 %	51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	810	100		ug/l	100	2082913	08/29/12	08/30/12	EPA 8260B	
Toluene	1.3	1.0		"	1	"	"	"	"	
Ethylbenzene	400	100		"	100	"	"	"	"	
Xylenes (total)	840	1.0		"	1	"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<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		"	"	"	"	

Summit Scientific

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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

MW04
R208158-25 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

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

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

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<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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LT Environmental, Inc.
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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

MW08
R208158-27 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<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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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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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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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

MW15
R208158-29 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	4.7	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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		105 %		49.7-150		"	"	"	"	
Surrogate: Toluene-d8		101 %		51-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.8 %		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

Trip Blank
R208158-30 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

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

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

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				
LCS (2082708-BS2)				Prepared: 08/27/12 Analyzed: 08/29/12							
C10-C28 (TEPH-DRO)	425	50	mg/kg	501		84.9	77-133				
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		
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		
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				
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				
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		

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

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 2082708 - EPA 3550A

Matrix Spike Dup (2082708-MSD2)

Source: R208166-02

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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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

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 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			

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

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 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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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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 2082707 - EPA 5030 Soil MS

Matrix Spike (2082707-MS1)		Source: R208166-01			Prepared & Analyzed: 08/28/12					
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			

Matrix Spike (2082707-MS2)		Source: R208167-01			Prepared & Analyzed: 08/28/12					
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			

Matrix Spike Dup (2082707-MSD1)		Source: R208166-01			Prepared & Analyzed: 08/28/12					
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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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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

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: 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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

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

Reported:
09/04/12 11:02

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 2082913 - EPA 5030 Water MS

Matrix Spike (2082913-MS2)		Source: R208169-07			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			
Matrix Spike Dup (2082913-MSD1)		Source: R208169-06			Prepared: 08/29/12		Analyzed: 08/30/12			
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			

Matrix Spike Dup (2082913-MSD2)		Source: R208169-07			Prepared: 08/29/12		Analyzed: 08/30/12			
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: BC - Walden Water Flood Facility/Praxair Assess

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