

804 Grand Avenue  
Platteville, CO 80651

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www.nobleenergyinc.com



REMED # 3916

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AUG 11 2008

COGCC

August 5, 2008

Mr. Robert Chesson  
Department Of Natural Resources  
Oil & Gas Conservation Commission  
1120 Lincoln St., Suite 801  
Denver CO 80203-2136

RE: Second Quarter Groundwater Monitoring Report  
Reichert 9-4,5,7  
Sec. 9, T4N, R65W  
Weld County, Colorado

Dear Mr. Chesson:

In accordance with the previously submitted Form 27, Noble Energy, Inc. (NEI) recently completed the second quarter of post-remediation groundwater sampling at the above referenced location using a third party consultant, LT Environmental. The attached Groundwater Monitoring Report summarizes benzene, toluene, ethylbenzene, and total xylenes (BTEX) laboratory analytical results for each sampling event to date. The next quarterly groundwater sampling event is scheduled for September 2008. The analytical laboratory results will be forwarded to your office when available.

Please contact the NEI environmental department at (970) 785-5074 if you have any questions or require additional information.

Sincerely,

A handwritten signature in cursive script that reads 'Marty Faraguna'.

Marty Faraguna  
Environmental Specialist

A handwritten signature in cursive script that reads 'Janelle Wadas'.

Janelle Wadas  
Environmental Engineer

Attachments

Cc: Ken Betz – Betz Farms  
Gordon Rupert – Property Owner

## GROUNDWATER MONITORING REPORT JUNE 2008

RECEIVED

AUG 11 2008

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### REICHERT 9-4, 5, 7 WELL SITES

On June 23, 2008, LT Environmental, Inc. (LTE) conducted groundwater sampling on behalf of Noble Energy, Inc., at the Reichert 9-4, 5, 7 Tank Battery. This sampling event constitutes the second post remediation monitoring event at this site. Site history and remediation activities were described in the preceding *Remediation Summary* and *Well Installation and Sampling Reports* dated January 2008 and April 2008, respectively.

Groundwater level measurements were collected from the monitoring wells and are summarized in Table 1. The monitoring wells (MW-2, MW-3, MW-4, and MW-5) were installed on February 28, 2008 to determine if impacted groundwater remained at the Site. Monitoring well MW01 was destroyed by farming activities after the first post-remediation sampling event. A site map is presented on Figure 1.

Depth to groundwater, which ranged from 1.70 feet below top of casing (btoc) in MW-4 to 3.83 feet btoc in MW-5, was used to calculate well-specific purge volumes. Following purging, groundwater samples were collected and preserved on ice. Samples were then submitted under strict chain of custody protocol to Origins Laboratory, Inc. of Denver, Colorado for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency Method 8260B.

Analytical results from the monitoring wells, presented in Table 1, indicate BTEX concentrations are below regulatory limits and laboratory detection limits in all samples except for monitoring well MW-3. The total xylenes concentrations observed at monitoring well MW-3 were 1,610.53 micrograms per liter (ug/L), which is above the Colorado Groundwater Quality Standard (CGWQS) of 1,400 ug/L. The laboratory analytical report is included as Attachment 1.

LTE will continue to conduct quarterly groundwater monitoring events with the goal of observing four consecutive quarters with analytical results in compliance with the CGWQS. The next quarterly groundwater sampling event is scheduled for September 2008.



TABLE



TABLE 1

**GROUNDWATER ANALYTICAL DATA  
REICHERT 9-4, 5, 7 TANK BATTERY  
WELD COUNTY, COLORADO  
NOBLE ENERGY, INC.**

MONITORING		DEPTH TO	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES
WELL	DATE	WATER (feet btoc)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW-1	3/19/2008	4.85	<1.00	<1.00	<1.00	<2.00
	6/23/2008		WELL DESTROYED			
MW-2	3/19/2008	.	<1.00	<1.00	<1.00	<2.00
	6/23/2008	3.13	<1.00	<1.00	<1.00	<2.00
MW-3	3/19/2008	5.91	<1.00	1.07	<1.00	381.5
	6/23/2008	2.84	<1.00	<1.00	<1.00	<b>1,610.53</b>
MW-4	3/19/2008	5.79	<1.00	<1.00	<1.00	<2.00
	6/23/2008	1.7	<1.00	<1.00	<1.00	<2.00
MW-5	3/19/2008	8.69	<1.00	<1.00	<1.00	<2.00
	6/23/2008	3.83	<1.00	<1.00	<1.00	<2.00
<b>CGWQS</b>			<b>5.0</b>	<b>1,000</b>	<b>700</b>	<b>1,400</b>

## NOTES:

Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8260B

btoc - below top of casing

ug/L - micrograms per liter

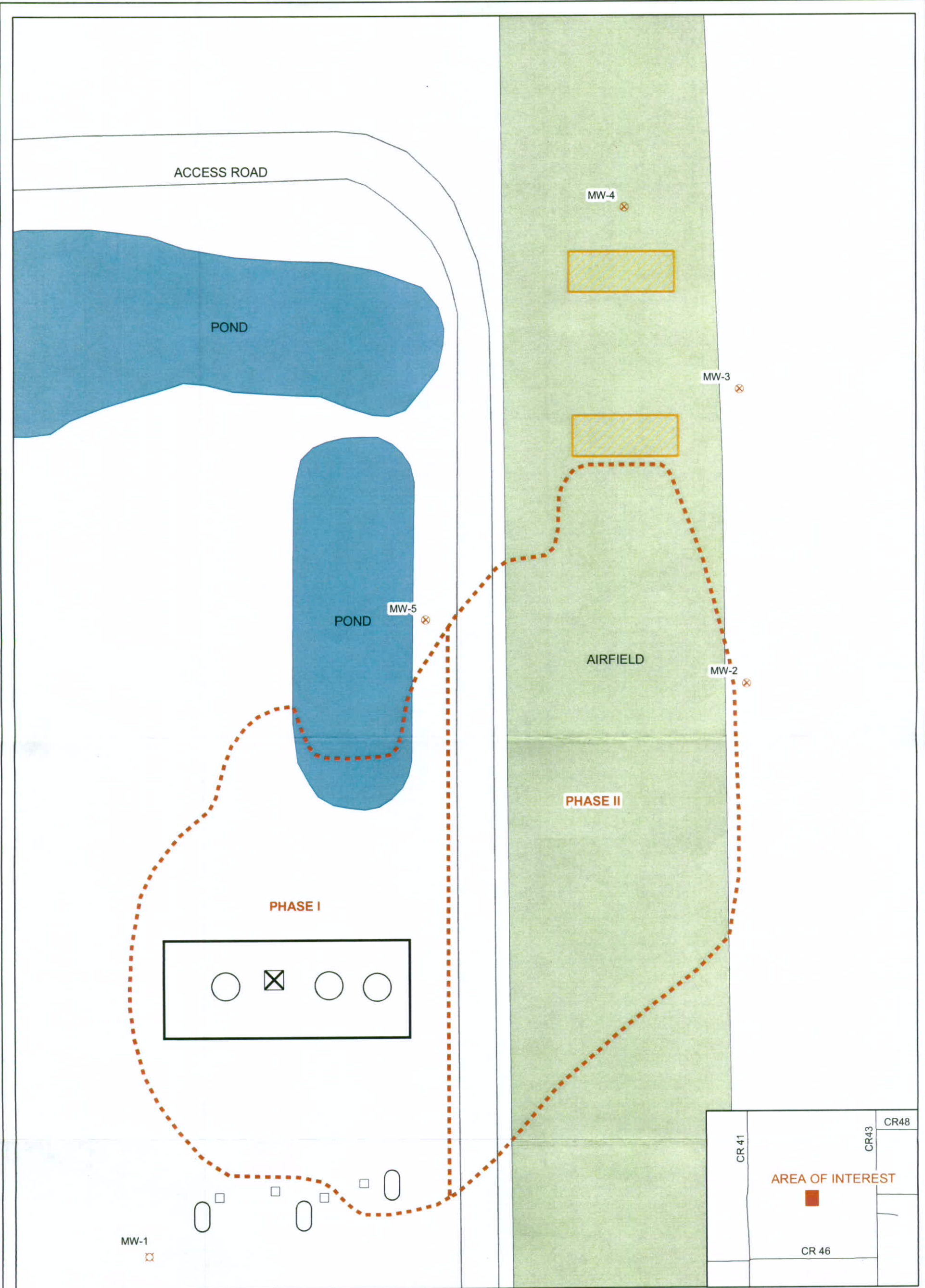
&lt; indicates result is less than the stated laboratory method detection limit

CGWQS - Colorado Groundwater Quality Standards



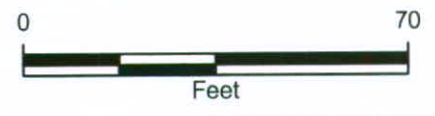
FIGURE





**LEGEND**

- |      |  |                           |  |                   |
|------|--|---------------------------|--|-------------------|
| MW-2 |  | MONITORING WELL           |  | ACCESS ROAD       |
| MW-1 |  | DESTROYED MONITORING WELL |  | AIRFIELD          |
|      |  | WATER VAULT               |  | POND              |
|      |  | METER HOUSE               |  | BERM              |
|      |  | ABOVEGROUND STORAGE TANK  |  | EXCAVATION EXTENT |
|      |  | SEPARATOR                 |  | TREATMENT TRENCH  |



**FIGURE 1**  
**MONITORING WELL LOCATION MAP**  
**REICHERT 9-4, 5, 7**  
**WELD COUNTY, COLORADO**  
**NOBLE ENERGY, INC.**



APPENDIX  
ANALYTICAL REPORT







4640 Pecos Street | Unit C | Denver, Colorado 80211  
303.433.1322 Phone 303.265.9645 Fax

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July 02, 2008

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

Brian Dodek  
Project Number: NEP0703.04  
Project: Reichert

---

Attached are the analytical results for Reichert received by Origins Laboratory, Inc. 6/24/2008 8:55:00AM. Please let us know if you have any questions, or if we can help with anything at all.

Laboratory Manager  
Noelle E Doyle

The analytical results in the following report were analyzed under the guidelines of EPA Methods specified in SW-846. The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. This laboratory report is intended solely for the above addressee and it is only to be used and or reproduced in its entirety.



4640 Pecos Street | Unit C  
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303.433.1322 | Laboratory  
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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO 80003

Brian Dodek  
Project Number: NEP0703.04  
Project: Reichert

#### CROSS REFERENCE REPORT

Laboratory ID	Sample ID	Matrix	Sampled	Date Received
MW02	X806082-01	Water	6/23/2008 11:50:00AM	06/24/2008 08:55
MW03	X806082-02	Water	6/23/2008 11:40:00AM	06/24/2008 08:55
MW04	X806082-03	Water	6/23/2008 11:30:00AM	06/24/2008 08:55
MW05	X806082-04	Water	6/23/2008 12:20:00PM	06/24/2008 08:55

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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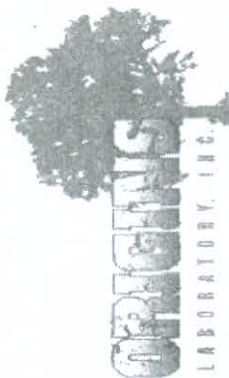


LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO 80003

Brian Dodek  
 Project Number: NEP0703.04  
 Project: Reichert

X806082

page 1 of 1



originslaboratory.com

Client: LT Environmental, Inc.  
 Address: 4600 West 60th Ave  
 Arvada CO 80003  
 Telephone Number: 303-433-9188  
 E-Mail Address:  
 Project Manager: BDD  
 Project Name: Reichert 7-4-57  
 Project Number: NEP0703.04  
 Samples Collected by: Slag Hains

X806082

Sample ID - Description	Date Sampled	Time Sampled	Preservative				Matrix	Analysis	Sample Instructions
			Unpreserved	HCl	HNO <sub>3</sub>	Other			
MUC2	6-23-08	11:50	X				Soil	XXX BTEX BAO	1
MUC3	6-23-08	11:40	X				Soil	XXX BTEX BAO	2
MUC4	6-23-08	11:30	X				Soil	XXX BTEX BAO	3
MUC5	6-23-08	11:20	X				Soil	XXX BTEX BAO	4

Number of Containers: 3

Time Received by: 8:55  
 Date: 6-24-08  
 Time: 8:55  
 Turn Around Time: 33  
 Same Day: 24 hr  
 48 hr  
 72 hr

Signature: [Signature]  
 Title: [Title]

4640 North Pecos Street Unit C, Denver, Colorado 80211 Laboratory: 303.433.1322 Fax: 303.265.9645

Origins Laboratory, Inc.

[Signature]

Noelle E Doyle, Laboratory Manager

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

Brian Dodek  
Project Number: NEP0703.04  
Project: Reichert

MW02  
X806082-01 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	1.00	ug/L	1	8F24001	06/24/2008	06/25/2008
Toluene	ND	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
o-Xylene	ND	1.00	"	"	"	"	"
m,p-Xylene	ND	2.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	90.5 %	70.3-123	"	"	"
Surrogate: Toluene-d8	101 %	75.9-123	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	83-126	"	"	"

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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LT Environmental, Inc.  
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Arvada CO 80003

Brian Dodek  
Project Number: NEP0703.04  
Project: Reichert

MW03  
X806082-02 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	1.00	ug/L	1	8F24001	06/24/2008	06/25/2008
Toluene	ND	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
o-Xylene	60.03	1.00	"	"	"	"	"
m,p-Xylene	1550.50	100.00	"	50	"	"	07/01/2008

Surrogate: 1,2-Dichloroethane-d4	88.8 %	70.3-123	"	"	06/25/2008
Surrogate: Toluene-d8	101 %	75.9-123	"	"	"
Surrogate: 4-Bromofluorobenzene	99.7 %	83-126	"	"	"

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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LT Environmental, Inc.  
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Arvada CO 80003

Brian Dodek  
Project Number: NEP0703.04  
Project: Reichert

MW04  
X806082-03 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	1.00	ug/L	1	8F24001	06/24/2008	06/25/2008
Toluene	ND	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
o-Xylene	ND	1.00	"	"	"	"	"
m,p-Xylene	ND	2.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	119 %	70.3-123	"	"	"
Surrogate: Toluene-d8	101 %	75.9-123	"	"	"
Surrogate: 4-Bromofluorobenzene	98.4 %	83-126	"	"	"

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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LT Environmental, Inc.  
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Arvada CO 80003

Brian Dodek  
Project Number: NEP0703.04  
Project: Reichert

MW05  
X806082-04 (Water)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	1.00	ug/L	1	8F24001	06/24/2008	06/25/2008
Toluene	ND	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
o-Xylene	ND	1.00	"	"	"	"	"
m,p-Xylene	ND	2.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	95.8 %	70.3-123	"	"	"
Surrogate: Toluene-d8	101 %	75.9-123	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	83-126	"	"	"

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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LT Environmental, Inc.  
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Brian Dodek  
Project Number: NEP0703.04  
Project: Reichert

Volatile Organic Compounds by EPA Method 8260B – Quality Control  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 8F24001 – EPA 5030B

Blank (8F24001-BLK1)

Prepared: 06/24/2008 Analyzed: 06/24/2008

Benzene	ND	1.00	ug/L							
Toluene	ND	1.00	"							
Ethylbenzene	ND	1.00	"							
o-Xylene	ND	1.00	"							
m,p-Xylene	ND	2.00	"							
Surrogate: 1,2-Dichloroethane-d4	67.4		"	62.5		108	70.3-123			
Surrogate: Toluene-d8	69.6		"	62.5		111	75.9-123			
Surrogate: 4-Bromofluorobenzene	59.2		"	62.5		94.7	83-126			

Blank (8F24001-BLK2)

Prepared: 06/24/2008 Analyzed: 06/24/2008

Benzene	ND	1.00	ug/L							
Toluene	ND	1.00	"							
Ethylbenzene	ND	1.00	"							
o-Xylene	ND	1.00	"							
m,p-Xylene	ND	2.00	"							
Surrogate: 1,2-Dichloroethane-d4	51.6		"	62.5		82.6	70.3-123			
Surrogate: Toluene-d8	66.9		"	62.5		107	75.9-123			
Surrogate: 4-Bromofluorobenzene	62.4		"	62.5		99.9	83-126			

LCS (8F24001-BS1)

Prepared: 06/24/2008 Analyzed: 06/24/2008

Benzene	46.95	1.00	ug/L	50.0		93.9	65-135			
Toluene	51.88	1.00	"	50.0		104	65-135			
Surrogate: 1,2-Dichloroethane-d4	52.9		"	62.5		84.7	70.3-123			
Surrogate: Toluene-d8	67.4		"	62.5		108	75.9-123			
Surrogate: 4-Bromofluorobenzene	62.2		"	62.5		99.6	83-126			

LCS (8F24001-BS2)

Prepared: 06/24/2008 Analyzed: 06/24/2008

Benzene	44.39	1.00	ug/L	50.0		88.8	65-135			
Toluene	47.80	1.00	"	50.0		95.6	65-135			

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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

Brian Dodek  
 Project Number: NEP0703.04  
 Project: Reichert

**Volatile Organic Compounds by EPA Method 8260B – Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 8F24001 – EPA 5030B</b>										
<b>LCS (8F24001-BS2)</b>					Prepared: 06/24/2008 Analyzed: 06/24/2008					
Surrogate: 1,2-Dichloroethane-d4	52.7		ug/L	62.5		84.3	70.3-123			
Surrogate: Toluene-d8	67.4		"	62.5		108	75.9-123			
Surrogate: 4-Bromofluorobenzene	62.4		"	62.5		99.9	83-126			
<b>Matrix Spike (8F24001-MS1)</b>					Source: X806079-07		Prepared: 06/24/2008 Analyzed: 06/24/2008			
Benzene	45.88	1.00	ug/L	50.0	ND	91.8	65-135			
Toluene	49.77	1.00	"	50.0	ND	99.5	65-135			
Surrogate: 1,2-Dichloroethane-d4	53.5		"	62.5		85.6	70.3-123			
Surrogate: Toluene-d8	67.9		"	62.5		109	75.9-123			
Surrogate: 4-Bromofluorobenzene	63.5		"	62.5		102	83-126			
<b>Matrix Spike (8F24001-MS2)</b>					Source: X806079-23		Prepared: 06/24/2008 Analyzed: 06/24/2008			
Benzene	47.52	1.00	ug/L	50.0	ND	95.0	65-135			
Toluene	51.29	1.00	"	50.0	ND	103	65-135			
Surrogate: 1,2-Dichloroethane-d4	55.4		"	62.5		88.6	70.3-123			
Surrogate: Toluene-d8	66.7		"	62.5		107	75.9-123			
Surrogate: 4-Bromofluorobenzene	62.1		"	62.5		99.3	83-126			
<b>Matrix Spike Dup (8F24001-MSD1)</b>					Source: X806079-07		Prepared: 06/24/2008 Analyzed: 06/24/2008			
Benzene	45.79	1.00	ug/L	50.0	ND	91.6	65-135	0.196	25	
Toluene	48.91	1.00	"	50.0	ND	97.8	65-135	1.74	25	
Surrogate: 1,2-Dichloroethane-d4	54.0		"	62.5		86.4	70.3-123			
Surrogate: Toluene-d8	66.8		"	62.5		107	75.9-123			
Surrogate: 4-Bromofluorobenzene	63.1		"	62.5		101	83-126			
<b>Matrix Spike Dup (8F24001-MSD2)</b>					Source: X806079-23		Prepared: 06/24/2008 Analyzed: 06/24/2008			
Benzene	43.64	1.00	ug/L	50.0	ND	87.3	65-135	8.51	25	
Toluene	38.27	1.00	"	50.0	ND	76.5	65-135	29.1	25	QR-03
Surrogate: 1,2-Dichloroethane-d4	59.5		"	62.5		95.2	70.3-123			

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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Arvada CO 80003

Brian Dodek  
Project Number: NEP0703.04  
Project: Reichert

Volatile Organic Compounds by EPA Method 8260B – Quality Control  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 8F24001 – EPA 5030B

Matrix Spike Dup (8F24001-MSD2)		Source: X806079-23			Prepared: 06/24/2008 Analyzed: 06/24/2008				
Surrogate: Toluene-d8	58.4		ug/L	62.5	93.4	75.9-123			
Surrogate: 4-Bromofluorobenzene	74.3		"	62.5	119	83-126			

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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Arvada CO 80003

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Project Number: NEP0703.04  
Project: Reichert

#### Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Origins Laboratory, Inc.

Noelle E Doyle, Laboratory Manager

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