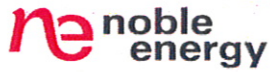


1625 Broadway  
Suite 2200.  
Denver, CO 80202



Tel: 303.228.4000  
Fax: 303.228.4286  
www.nobleenergyinc.com

North America Division

May 30, 2012

Mr. John Axelson  
Department of Natural Resources  
Oil & Gas Conservation Commission  
1120 Lincoln Street, Suite 801  
Denver, CO 80201

RE: Ground Water Monitoring Report  
Mills Felt 1-22  
Release Tracking # 2221820  
API # 05-123-10654  
SWSW Sec. 22, T6N R66W  
Weld County, CO

Dear Mr. Axelson:

Please find attached Monitoring Well Installation and Ground Water Monitoring Report for the Mills Felt 1-22 Tank Battery. Noble Energy Inc. would like to claim business confidentiality protection for the information submitted in this letter, the supporting materials attached and all subsequent correspondence related to this matter. Please contact the Noble Energy EHS Department at 303-228-4000 if you have any questions or require additional information.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Ryan Bruner'.

Ryan Bruner  
Environmental Coordinator

Attachment



## **GROUNDWATER MONITORING REPORT APRIL 2012**

---

### **MILLS-FELT 1-22 TANK BATTERY**

On April 4, 2012, LT Environmental, Inc. (LTE), under the direction of Noble Energy, Inc. (Noble), conducted groundwater monitoring at the Mills-Felt 1-22 Tank Battery (Site). The tank battery has been decommissioned and agriculture activities will resume in the near future. Site history and remediation activities were described in preceding reports. The April 2012 groundwater monitoring event constitutes the third post-remediation performance groundwater monitoring event.

Monitoring wells (MW01 through MW05) were installed on January 12, 2012. A site map is presented as Figure 1. Groundwater level measurements were collected from monitoring wells MW01 through MW05 and are summarized in Table 1.

During the April 2012 monitoring event, depth to groundwater, which ranged from 7.05 feet below top of casing (btoc) in monitoring well MW01 to 8.31 feet btoc in monitoring well MW02, was used to calculate well-specific purge volumes. Following well purging, samples were collected and then submitted to Origins Laboratory Inc. of Denver, Colorado, for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency Method 8260C.

Analytical results presented in Table 1 indicate BTEX concentrations are in compliance with the Colorado Department of Public Health and Environment-Water Quality Control Commission Regulation 41-The Basic Standards for Ground Water (WQCC Reg 41). The laboratory analytical report is included as the Attachment.

This event constitutes the third monitoring event in compliance with applicable standards. LTE, under the direction of Noble, will continue to conduct groundwater monitoring events with the goal of obtaining as many analytical results in compliance with WQCC Reg 41 before agriculture activities resume on site. The next groundwater monitoring event is scheduled for May 2012.

**FIGURE**

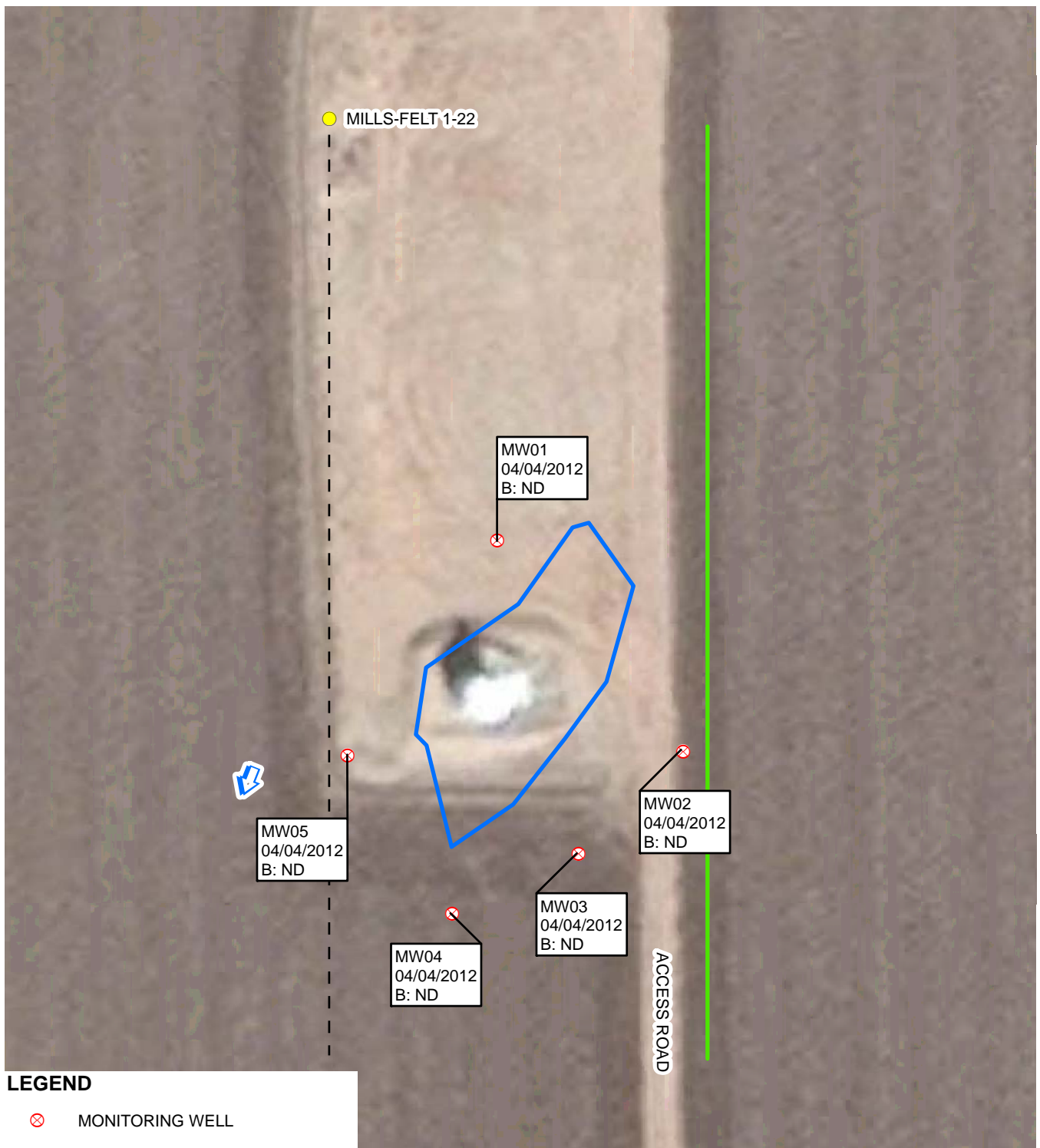


IMAGE COURTESY OF GOOGLE EARTH, 04/07/2010

# LEGEND

⊗ MONITORING WELL

● WELLHEAD

↑ GROUNDWATER FLOW DIRECTION

--- FLOW LINE

— DCP LINE

□ EXCAVATION AREA

SAMPLE ID  
SAMPLE DATE  
B: BENZENE IN MICROGRAMS PER LITER (µg/L)  
ND: NON DETECT

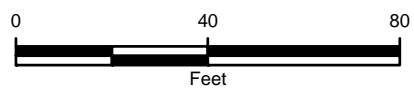


FIGURE 1  
GROUNDWATER ANALYTICAL RESULTS  
MILLS-FELT 1-22 TANK BATTERY  
WELD COUNTY, COLORADO

NOBLE ENERGY, INC.



## TABLE

**TABLE 1**

**GROUNDWATER ANALYTICAL RESULTS  
MILLS-FELT 1-22 TANK BATTERY  
WELD COUNTY, COLORADO  
NOBLE ENERGY, INC.**

<b>Monitoring Well</b>	<b>Date</b>	<b>Depth to Water (feet btoc)</b>	<b>Benzene (µg/L)</b>	<b>Toluene (µg/L)</b>	<b>Ethylbenzene (µg/L)</b>	<b>Total Xylenes (µg/L)</b>
MW01	1/13/2012	7.58	<1.0	1.77	<1.0	<3.0
	2/7/2012	7.15	<1.0	<1.0	<1.0	<1.0
	4/4/2012	7.05	<1.0	<1.0	<1.0	<1.0
MW02	1/13/2012	7.93	1.51	20	4.41	15.8
	2/7/2012	8.10	<1.0	<1.0	<1.0	<1.0
	4/4/2012	8.31	<1.0	<1.0	<1.0	<1.0
MW03	1/13/2012	7.54	<1.0	<1.0	<1.0	<3.0
	2/7/2012	7.73	<1.0	<1.0	<1.0	<1.0
	4/4/2012	7.46	<1.0	<1.0	<1.0	<1.0
MW04	1/13/2012	7.72	<1.0	4.51	1.49	6.53
	2/7/2012	7.88	<1.0	<1.0	<1.0	<1.0
	4/4/2012	8.10	<1.0	<1.0	<1.0	<1.0
MW05	1/13/2012	7.48	<1.0	1.36	<1.0	<3.0
	2/7/2012	7.63	<1.0	<1.0	<1.0	<1.0
	4/4/2012	7.73	<1.0	<1.0	<1.0	<1.0
<b>CDPHE WQCC Reg 41</b>			<b>5.0</b>	<b>560</b>	<b>700</b>	<b>1,400</b>

**NOTES:**

btoc - below top of casing

µg/L - micrograms per liter

&lt; - indicates result is less than the stated laboratory reporting limit

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260C

CDPHE WQCC Reg 41 - Colorado Department of Public Health and Environment-Water Quality Control  
Commission Regulation 41 covering The Basic Standards for Ground Water

**ATTACHMENT**

**LABORATORY ANALYTICAL REPORT**



April 09, 2012

LT Environmental, Inc.

Steve Kahn

4600 West 60th Avenue

Arvada CO 80003

---

Project Name - Noble - Mills-Felt 1-22

Project Number - 008311069

Attached are you analytical results for Noble - Mills-Felt 1-22 received by Origins Laboratory, Inc. April 04, 2012. This project is associated with Origins project number X204033-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645



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

Steve Kahn  
Project Number: 008311069  
Project: Noble - Mills-Felt 1-22

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	X204033-01	Water	April 4, 2012 12:00	04/04/2012 16:00
MW02	X204033-02	Water	April 4, 2012 12:20	04/04/2012 16:00
MW03	X204033-03	Water	April 4, 2012 12:40	04/04/2012 16:00
MW04	X204033-04	Water	April 4, 2012 13:00	04/04/2012 16:00
MW05	X204033-05	Water	April 4, 2012 13:20	04/04/2012 16:00

Origins Laboratory, Inc.



Noelle E Doyle, President

*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

Steve Kahn  
Project Number: 008311069  
Project: Noble - Mills-Felt 1-22

www.originslaboratory.com

page 1 of 1

X201033

Client: LSC

Address:

Telephone Number:

Email Address:

Project Manager: Steve Kahn

Project Name: Mills Felt 1-22

Project Number: 008311069

Samples Collected By: J. G. Jones

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #		
MW01	4-4-12	1200	3	X				X				1 Filter
MW02	4-4-12	1230	3	X				X				2 Filter
MW03	4-4-12	1240	3	X				X				3 Filter
MW04	4-4-12	1300	3	X				X				4 Filter
MW05	4-4-12	1310	3	X				X				5 Filter
												6
												7
												8
												9
												10
Relinquished By: [Signature]	Date: 4-4-12	Time: 4:00 PM										Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard <input type="checkbox"/>
Relinquished By: [Signature]	Date: 4-4-12	Time: 4:00 PM										Date Results Needed: 4/4/12 12:00

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Origins Laboratory, Inc.

*Noelle E Doyle*

Noelle E Doyle, President

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LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Steve Kahn

Project Number: 008311069

Project: Noble - Mills-Felt 1-22

Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: X204033

Client: ST

Client Project ID: Mills Felt

Checklist Completed by: [Signature]

Shipped Via: 4/12  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/4/12 16:02

Airbill #: N/A

Matrix(s) Received: (Check all that apply):

Soil/Solid

☒ Water

Other:

Cooler Number/Temperature: 178 °C / 1 °C / 1 °C / 1 °C (Describe)

Thermometer ID: 1001

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<u>MISSING ANALYST</u>
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		<u>SAMPLES WILL BE ANALYZED WITHIN 7 DAYS OF COLLECTION</u>
Additional Comments (if any):	<u>CONFIRMED ANALYSIS WITH JACOB SOARS</u>			
By PHONE 4/6/12 <u>[Signature]</u>				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed By (Project Manager)

4/12 1318  
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

Noelle E Doyle, President

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

Steve Kahn  
Project Number: 008311069  
Project: Noble - Mills-Felt 1-22

MW01  
4/4/2012 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
X204033-01 (Water)

## BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	2D05003	04/05/2012	04/06/2012
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130			"	"	"
Surrogate: Toluene-d8	97.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Steve Kahn  
Project Number: 008311069  
Project: Noble - Mills-Felt 1-22

MW02  
4/4/2012 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
X204033-02 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	2D05003	04/05/2012	04/06/2012
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"
Surrogate: Toluene-d8	97.3 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"

Origins Laboratory, Inc.



Noelle E Doyle, President

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

Steve Kahn  
Project Number: 008311069  
Project: Noble - Mills-Felt 1-22

MW03

4/4/2012 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
X204033-03 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	2D05003	04/05/2012	04/06/2012
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"
Surrogate: Toluene-d8	97.4 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"

Origins Laboratory, Inc.



Noelle E Doyle, President

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

Steve Kahn  
Project Number: 008311069  
Project: Noble - Mills-Felt 1-22

MW04

4/4/2012 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
X204033-04 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	2D05003	04/05/2012	04/06/2012
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"
Surrogate: Toluene-d8	91.6 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	70-130			"	"	"

Origins Laboratory, Inc.



Noelle E Doyle, President

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

Steve Kahn  
Project Number: 008311069  
Project: Noble - Mills-Felt 1-22

MW05

4/4/2012 1:20:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.  
X204033-05 (Water)

### BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	2D05003	04/05/2012	04/06/2012
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	97.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Origins Laboratory, Inc.



Noelle E Doyle, President

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

Steve Kahn  
Project Number: 008311069  
Project: Noble - Mills-Felt 1-22

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control  
Origins Laboratory, Inc.

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

Batch 2D05003 - EPA 5030B (Water)

Blank (2D05003-BLK1)

Prepared: 04/05/2012 Analyzed: 04/05/2012

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	53		"	62.5	85.4		70-130			
Surrogate: Toluene-d8	61		"	62.5	97.4		70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	103		70-130			

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Steve Kahn  
Project Number: 008311069  
Project: Noble - Mills-Felt 1-22

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control  
Origins Laboratory, Inc.

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

Batch 2D05003 - EPA 5030B (Water)

Blank (2D05003-BLK2)

Prepared: 04/05/2012 Analyzed: 04/05/2012

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5	86.5		70-130			
Surrogate: Toluene-d8	61		"	62.5	97.6		70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5	102		70-130			

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Steve Kahn  
Project Number: 008311069  
Project: Noble - Mills-Felt 1-22

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2D05003 - EPA 5030B (Water)										
LCS (2D05003-BS1)					Prepared: 04/05/2012 Analyzed: 04/05/2012					
Benzene	102	1.0	ug/L	100		102	70-130			
Toluene	98.4	1.0	"	100		98.4	70-130			
Ethylbenzene	102	1.0	"	100		102	70-130			
m,p-Xylene	206	2.0	"	200		103	70-130			
o-Xylene	103	1.0	"	100		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5		85.8	70-130			
Surrogate: Toluene-d8	55		"	62.5		87.4	70-130			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		110	70-130			

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Steve Kahn  
Project Number: 008311069  
Project: Noble - Mills-Felt 1-22

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2D05003 - EPA 5030B (Water)										
LCS (2D05003-BS2)					Prepared: 04/05/2012 Analyzed: 04/05/2012					
Benzene	102	1.0	ug/L	100		102	70-130			
Toluene	105	1.0	"	100		105	70-130			
Ethylbenzene	105	1.0	"	100		105	70-130			
m,p-Xylene	214	2.0	"	200		107	70-130			
o-Xylene	113	1.0	"	100		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		87.8	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Steve Kahn  
Project Number: 008311069  
Project: Noble - Mills-Felt 1-22

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

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

Batch 2D05003 - EPA 5030B (Water)

Matrix Spike (2D05003-MS1)		Source: X204001-01			Prepared: 04/05/2012 Analyzed: 04/05/2012					
Benzene	90.6	1.0	ug/L	100	ND	90.6	70-130			QR-02
Toluene	92.9	1.0	"	100	ND	92.9	70-130			QR-02
Ethylbenzene	102	1.0	"	100	ND	102	70-130			QR-02
m,p-Xylene	205	2.0	"	200	ND	102	70-130			QR-02
o-Xylene	103	1.0	"	100	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	50		"	62.5		79.6	70-130			
Surrogate: Toluene-d8	55		"	62.5		87.2	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

Origins Laboratory, Inc.



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Noelle E Doyle, President

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Steve Kahn

Project Number: 008311069

Project: Noble - Mills-Felt 1-22

**Volatile Organic Compounds by GC/MS SW846 8260C - 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 2D05003 - EPA 5030B (Water)

Matrix Spike (2D05003-MS2)		Source: X204003-01			Prepared: 04/05/2012 Analyzed: 04/05/2012					
Benzene	110	1.0	ug/L	100	ND	110	70-130			
Toluene	114	1.0	"	100	ND	114	70-130			
Ethylbenzene	112	1.0	"	100	ND	112	70-130			
m,p-Xylene	219	2.0	"	200	ND	110	70-130			
o-Xylene	104	1.0	"	100	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	52		"	62.5		82.7	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.1	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - 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 2D05003 - EPA 5030B (Water)

Matrix Spike Dup (2D05003-MSD1)		Source: X204001-01			Prepared: 04/05/2012 Analyzed: 04/05/2012					
Benzene	122	1.0	ug/L	100	ND	122	70-130	29.6	20	QR-02
Toluene	115	1.0	"	100	ND	115	70-130	21.7	20	QR-02
Ethylbenzene	126	1.0	"	100	ND	126	70-130	21.8	20	QR-02
m,p-Xylene	255	2.0	"	200	ND	127	70-130	21.8	20	QR-02
o-Xylene	123	1.0	"	100	ND	123	70-130	17.8	20	
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.8	70-130			
Surrogate: Toluene-d8	59		"	62.5		93.9	70-130			
Surrogate: 4-Bromofluorobenzene	70		"	62.5		112	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260C - 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 2D05003 - EPA 5030B (Water)

Matrix Spike Dup (2D05003-MSD2)		Source: X204003-01			Prepared: 04/05/2012 Analyzed: 04/05/2012					
Benzene	105	1.0	ug/L	100	ND	105	70-130	4.60	20	
Toluene	107	1.0	"	100	ND	107	70-130	5.99	20	
Ethylbenzene	108	1.0	"	100	ND	108	70-130	3.90	20	
m,p-Xylene	218	2.0	"	200	ND	109	70-130	0.334	20	
o-Xylene	109	1.0	"	100	ND	109	70-130	4.67	20	
Surrogate: 1,2-Dichloroethane-d4	52		"	62.5		83.2	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	70-130			

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### Notes and Definitions

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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