

State of Colorado  
**Oil and Gas Conservation Commission**

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109



FOR OGCC USE ONLY

**RECEIVED**  
**9/11/2013**

Spill report taken by:

FACILITY ID:  
**425390**

**SPILL/RELEASE REPORT**

This form is to be submitted by the party responsible for the oil and gas spill or release. Any spill or release which may impact waters of the State must be reported as soon as practicable; any spill over 20 bbls must be reported within 24 hours and all spills over five bbls must be reported within ten days. Submit a Site Investigation and Remediation Workplan (Form 27) when requested by the Director.

**OPERATOR INFORMATION**

Name of Operator: _____ OGCC Operator No: _____	Phone Numbers No: _____ Fax: _____ E-Mail: _____
Address: _____	
City: _____ State: _____ Zip: _____	
Contact Person: _____	

**DESCRIPTION OF SPILL OR RELEASE**

Date of Incident: _____ Facility Name & No.: _____	County: _____
Type of Facility (well, tank battery, flow line, pit): _____	QtrQtr: _____ Section: _____
Well Name and Number: _____	Township: _____ Range: _____
API Number: _____	Meridian: _____
Specify volume spilled and recovered (in bbls) for the following materials: Oil spilled: _____ Oil recov'd: _____ Water spilled: _____ Water recov'd: _____ Other spilled: _____ Other recov'd: _____	
Ground Water impacted? Yes No	Surface Water impacted? Yes No
Contained within berm? Yes No	Area and vertical extent of spill: _____x_____
Current land use: _____ Weather conditions: _____	
Soil/geology description: _____	
<b>IF LESS THAN A MILE</b> , report distance <b>IN FEET</b> to nearest.... Surface water: _____ wetlands: _____ buildings: _____	
Livestock: _____ water wells: _____ Depth to shallowest ground water: _____	
Cause of spill (e.g., equipment failure, human error, etc.): _____ Detailed description of the spill/release incident: _____	

**CORRECTIVE ACTION**

Describe immediate response (how stopped, contained and recovered):

Describe any emergency pits constructed:

How was the extent of contamination determined:

Further remediation activities proposed (attach separate sheet if needed):

Describe measures taken to prevent problem from reoccurring:

**OTHER NOTIFICATIONS**

List the parties and agencies notified (County, BLM, EPA, DOT, Local Emergency Planning Coordinator or other).

Date	Agency	Contact	Phone	Response

Spill/Release Tracking No: **2146071**

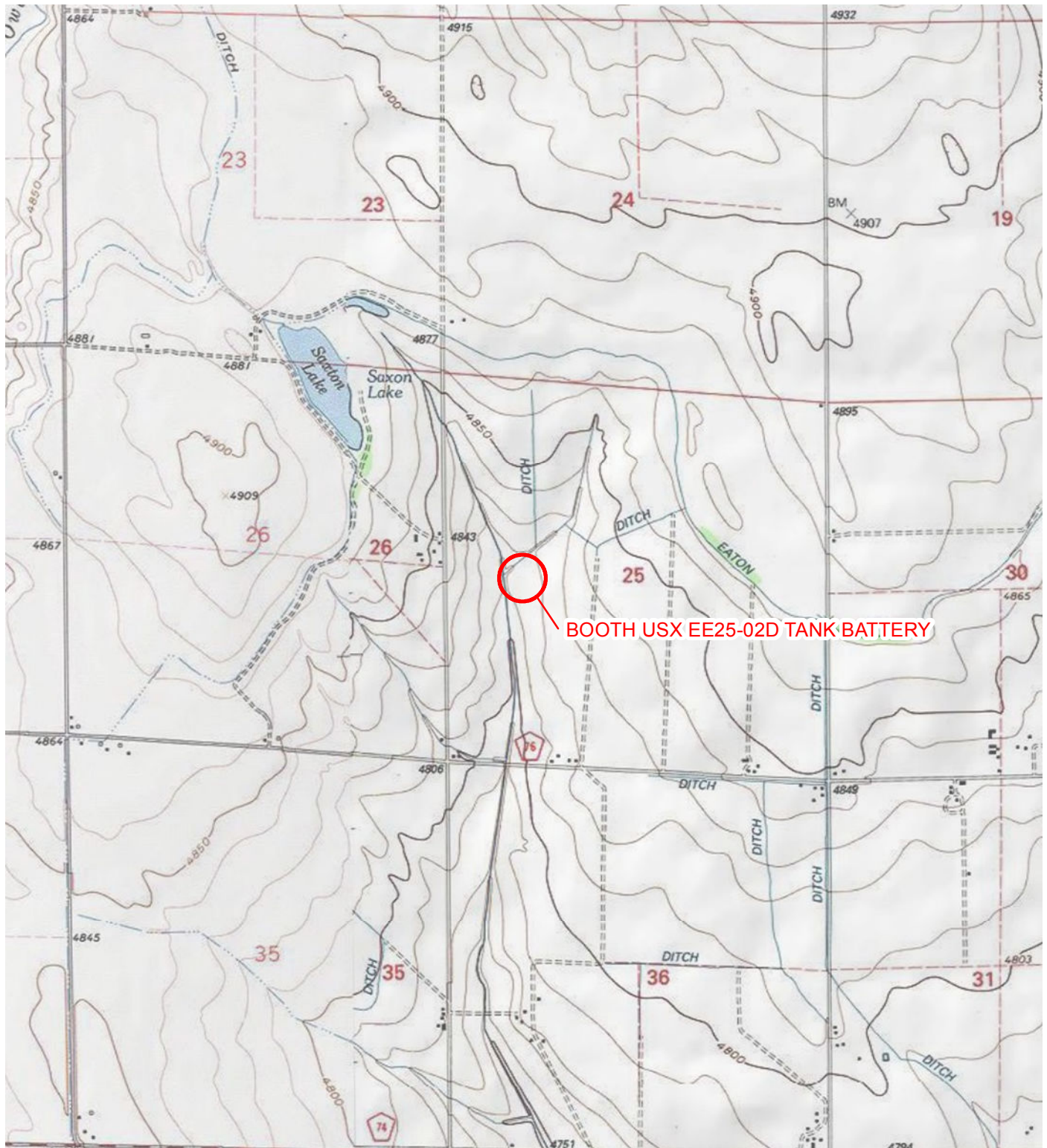


IMAGE COURTESY OF ESRI/USGS

# LEGEND

○ SITE LOCATION

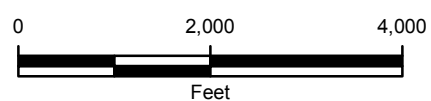


FIGURE 1  
SITE LOCATION MAP  
BOOTH USX EE25-02D TANK BATTERY  
WELD COUNTY, COLORADO

NOBLE ENERGY, INC.







IMAGE COURTESY OF GOOGLE EARTH 2012

# LEGEND

- RELEASE
- SOIL SAMPLE
- SURFACE WATER SAMPLE
- SCRAPED AREA

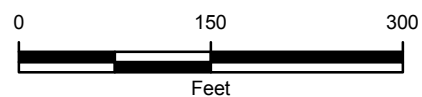


FIGURE 2  
SITE MAP  
BOOTH USX EE25-02D TANK BATTERY  
WELD COUNTY, COLORADO

NOBLE ENERGY, INC.





September 05, 2013

LT Environmental, Inc.

Rob Rebel

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - Noble - Booth USX EE 25-02D**

**Project Number - [none]**

Attached are you analytical results for Noble - Booth USX EE 25-02D received by Origins Laboratory, Inc. September 03, 2013. This project is associated with Origins project number X309011-01.

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.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

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

Rob Rebel  
Project Number: [none]  
Project: Noble - Booth USX EE 25-02D

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	X309011-01	Soil	September 3, 2013 13:42	09/03/2013 17:32
SS02	X309011-02	Soil	September 3, 2013 14:03	09/03/2013 17:32
SS03	X309011-03	Soil	September 3, 2013 15:33	09/03/2013 17:32
SW01	X309011-04	Water	September 3, 2013 14:44	09/03/2013 17:32
SW02	X309011-05	Water	September 3, 2013 14:54	09/03/2013 17:32
SW03	X309011-06	Water	September 3, 2013 15:07	09/03/2013 17:32
SW04	X309011-07	Water	September 3, 2013 15:18	09/03/2013 17:32

Origins Laboratory, Inc.



*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.*

Noelle E Doyle, President

Rob Rebel  
Project Number: [none]  
Project: Noble - Booth USX EE 25-02D

[illegible]

Origins Laboratory, Inc.

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

Rob Rebel  
Project Number: [none]  
Project: Noble - Booth USX EE 25-02D

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

### Sample Receipt Checklist

Origins Work Order: X309011

Client: LT

Client Project ID: Booth USX

Checklist Completed by: [Signature]

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

Date/time completed: 09-03-13 1735

Airbill #: \_\_\_\_\_

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☒ Water \_\_\_\_\_ Other: \_\_\_\_\_  
(Describe)

Cooler Number/Temperature: 1119 °C \_\_\_\_\_ °C \_\_\_\_\_ °C \_\_\_\_\_ °C

Thermometer ID: 1002

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"/>		<u>Sampled today</u>
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"/>		<u>only one sample vol. vessel per sample</u>
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"/>			
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.				
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"/>	<input checked="" type="checkbox"/>		<u>Unpreserved must be analyzed w/in 7 days.</u>
Additional Comments (if any):				

<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)

09-05-13 1429  
Date/Time Reviewed

Origins Laboratory, Inc.

*Noelle E Doyle*

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.

Noelle E Doyle, President

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

Rob Rebel  
Project Number: [none]  
Project: Noble - Booth USX EE 25-02D

## SS01

9/3/2013 1:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X309011-01 (Soil)

### Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	3105006	09/05/2013	09/05/2013	
Surrogate: o-Terphenyl	108 %	59-131			"	"	"	

### GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.40	mg/kg	1	3105005	09/05/2013	09/05/2013	
Benzene	ND	0.0040	"	"	"	"	"	
Toluene	ND	0.0040	"	"	"	"	"	
Ethylbenzene	ND	0.0040	"	"	"	"	"	
Xylenes, total	ND	0.0040	"	"	"	"	"	
Napthalene	ND	0.0080	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Noelle E Doyle, President



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

Rob Rebel  
Project Number: [none]  
Project: Noble - Booth USX EE 25-02D

## SS02

9/3/2013 2:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X309011-02 (Soil)

### Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	3105006	09/05/2013	09/05/2013	
Surrogate: o-Terphenyl	103 %	59-131			"	"	"	

### GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.40	mg/kg	1	3105005	09/05/2013	09/05/2013	
Benzene	ND	0.0040	"	"	"	"	"	
Toluene	ND	0.0040	"	"	"	"	"	
Ethylbenzene	ND	0.0040	"	"	"	"	"	
Xylenes, total	ND	0.0040	"	"	"	"	"	
Napthalene	ND	0.0080	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Rob Rebel  
Project Number: [none]  
Project: Noble - Booth USX EE 25-02D

## SS03

9/3/2013 3:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X309011-03 (Soil)

### Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	3105006	09/05/2013	09/05/2013	
Surrogate: o-Terphenyl	105 %	59-131			"	"	"	

### GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.40	mg/kg	1	3105005	09/05/2013	09/05/2013	
Benzene	ND	0.0040	"	"	"	"	"	
Toluene	ND	0.0040	"	"	"	"	"	
Ethylbenzene	ND	0.0040	"	"	"	"	"	
Xylenes, total	ND	0.0040	"	"	"	"	"	
Napthalene	ND	0.0080	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Rob Rebel  
Project Number: [none]  
Project: Noble - Booth USX EE 25-02D

SW01

9/3/2013 2:44:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X309011-04 (Water)

**BTEX by EPA 8260C**

Benzene	ND	2.0	ug/L	2	3105007	09/05/2013	09/05/2013
Toluene	ND	2.0	"	"	"	"	"
Ethylbenzene	ND	2.0	"	"	"	"	"
Xylenes, total	ND	2.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	99.4 %	84-121			"	"	"
Surrogate: Toluene-d8	97.4 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Rob Rebel  
Project Number: [none]  
Project: Noble - Booth USX EE 25-02D

## SW02

9/3/2013 2:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. X309011-05 (Water)

### BTEX by EPA 8260C

Benzene	ND	2.0	ug/L	2	3105007	09/05/2013	09/05/2013
Toluene	ND	2.0	"	"	"	"	"
Ethylbenzene	ND	2.0	"	"	"	"	"
Xylenes, total	ND	2.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	100 %	84-121			"	"	"
Surrogate: Toluene-d8	97.6 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	99.7 %	84-114			"	"	"

Origins Laboratory, Inc.



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Noelle E Doyle, President



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

Rob Rebel  
Project Number: [none]  
Project: Noble - Booth USX EE 25-02D

SW03

9/3/2013 3:07:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X309011-06 (Water)

BTEX by EPA 8260C

Benzene	ND	2.0	ug/L	2	3105007	09/05/2013	09/05/2013
Toluene	ND	2.0	"	"	"	"	"
Ethylbenzene	ND	2.0	"	"	"	"	"
Xylenes, total	ND	2.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"
Surrogate: Toluene-d8	98.4 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Rob Rebel  
Project Number: [none]  
Project: Noble - Booth USX EE 25-02D

SW04

9/3/2013 3:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
X309011-07 (Water)

BTEX by EPA 8260C

Benzene	ND	2.0	ug/L	2	3105007	09/05/2013	09/05/2013
Toluene	ND	2.0	"	"	"	"	"
Ethylbenzene	ND	2.0	"	"	"	"	"
Xylenes, total	ND	2.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	99.3 %	84-121			"	"	"
Surrogate: Toluene-d8	97.0 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Rob Rebel  
Project Number: [none]  
Project: Noble - Booth USX EE 25-02D

**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 3I05005 - EPA 5030 (soil)

**Blank (3I05005-BLK1)**

Prepared: 09/05/2013 Analyzed: 09/05/2013

Gasoline Range Hydrocarbons	ND	0.40	mg/kg							
Benzene	ND	0.0040	"							
Toluene	ND	0.0040	"							
Ethylbenzene	ND	0.0040	"							
Xylenes, total	ND	0.0040	"							
Naphthalene	ND	0.0080	"							
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.8	70-130			

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Rob Rebel  
Project Number: [none]  
Project: Noble - Booth USX EE 25-02D

**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 3I05005 - EPA 5030 (soil)										
LCS (3I05005-BS1)					Prepared: 09/05/2013 Analyzed: 09/05/2013					
Benzene	0.21	0.0040	mg/kg	0.200		105	70-130			
Toluene	0.21	0.0040	"	0.200		104	70-130			
Ethylbenzene	0.19	0.0040	"	0.200		97.4	70-130			
m,p-Xylene	0.37	0.0080	"	0.400		92.9	70-130			
o-Xylene	0.18	0.0040	"	0.200		91.8	70-130			
Naphthalene	0.18	0.0080	"				70-130			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	65		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	70-130			

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

Rob Rebel  
Project Number: [none]  
Project: Noble - Booth USX EE 25-02D

**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 3I05005 - EPA 5030 (soil)										
<b>Matrix Spike (3I05005-MS1)</b>		<b>Source: X309011-01</b>			Prepared: 09/05/2013 Analyzed: 09/05/2013					
Benzene	0.20	0.0040	mg/kg	0.200	ND	99.6	70-130			
Toluene	0.19	0.0040	"	0.200	ND	97.0	70-130			
Ethylbenzene	0.19	0.0040	"	0.200	ND	94.8	70-130			
m,p-Xylene	0.37	0.0080	"	0.400	ND	93.7	70-130			
o-Xylene	0.18	0.0040	"	0.200	ND	89.9	70-130			
Naphthalene	0.15	0.0080	"		0.0034		70-130			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.6	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	70-130			

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Rob Rebel  
Project Number: [none]  
Project: Noble - Booth USX EE 25-02D

**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 3I05005 - EPA 5030 (soil)										
<b>Matrix Spike Dup (3I05005-MSD1)</b>			<b>Source: X309011-01</b>		Prepared: 09/05/2013 Analyzed: 09/05/2013					
Benzene	0.20	0.0040	mg/kg	0.200	ND	98.6	70-130	1.05	20	
Toluene	0.19	0.0040	"	0.200	ND	96.8	70-130	0.206	20	
Ethylbenzene	0.19	0.0040	"	0.200	ND	95.0	70-130	0.190	20	
m,p-Xylene	0.37	0.0080	"	0.400	ND	91.4	70-130	2.54	20	
o-Xylene	0.18	0.0040	"	0.200	ND	89.2	70-130	0.737	20	
Naphthalene	0.17	0.0080	"		0.0034		70-130	11.0	20	
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	70-130			

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Rob Rebel  
Project Number: [none]  
Project: Noble - Booth USX EE 25-02D

**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 3I05007 - EPA 5030B (Water)**

**Blank (3I05007-BLK1)**

Prepared: 09/05/2013 Analyzed: 09/05/2013

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5	99.4		84-121			
Surrogate: Toluene-d8	61		"	62.5	97.3		85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101		84-114			

Origins Laboratory, Inc.



*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.*

Noelle E Doyle, President

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

Rob Rebel  
Project Number: [none]  
Project: Noble - Booth USX EE 25-02D

**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
<b>Batch 3I05007 - EPA 5030B (Water)</b>										
<b>LCS (3I05007-BS1)</b>					Prepared: 09/05/2013 Analyzed: 09/05/2013					
Benzene	48.0	1.0	ug/L	50.0		95.9	74-130			
Toluene	45.7	1.0	"	50.0		91.4	76-128			
Ethylbenzene	45.7	1.0	"	50.0		91.4	78-130			
m,p-Xylene	90.5	2.0	"	100		90.5	75-134			
o-Xylene	47.8	1.0	"	50.0		95.5	76-129			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.1	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

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Rob Rebel  
Project Number: [none]  
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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
<b>Batch 3I05007 - EPA 5030B (Water)</b>										
<b>LCS Dup (3I05007-BSD1)</b>					Prepared: 09/05/2013 Analyzed: 09/05/2013					
Benzene	51.3	1.0	ug/L	50.0		103	74-130	6.79	20	
Toluene	49.5	1.0	"	50.0		99.0	76-128	7.92	20	
Ethylbenzene	50.3	1.0	"	50.0		101	78-130	9.54	20	
m,p-Xylene	98.8	2.0	"	100		98.8	75-134	8.71	20	
o-Xylene	51.0	1.0	"	50.0		102	76-129	6.64	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.5	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.3	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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LT Environmental, Inc.  
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Rob Rebel  
Project Number: [none]  
Project: Noble - Booth USX EE 25-02D

**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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**Extractable Petroleum Hydrocarbons by 8015M - 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 3I05006 - EPA 3580**

**Blank (3I05006-BLK1)**

Prepared: 09/05/2013 Analyzed: 09/05/2013

Diesel (C10-C28) ND 50.0 mg/kg

Surrogate: o-Terphenyl 55 g 50.0 110 59-131

**LCS (3I05006-BS1)**

Prepared: 09/05/2013 Analyzed: 09/05/2013

Diesel (C10-C28) 1070 50.0 mg/kg 1000 107 64-121

Surrogate: o-Terphenyl 51 g 50.0 102 59-131

**Matrix Spike (3I05006-MS1)**

**Source: X309011-02**

Prepared: 09/05/2013 Analyzed: 09/05/2013

Diesel (C10-C28) 1080 50.0 mg/kg 1000 ND 108 53-125

Surrogate: o-Terphenyl 54 g 50.0 108 59-131

**Matrix Spike Dup (3I05006-MSD1)**

**Source: X309011-02**

Prepared: 09/05/2013 Analyzed: 09/05/2013

Diesel (C10-C28) 1060 50.0 mg/kg 1000 ND 106 53-125 2.55 20

Surrogate: o-Terphenyl 49 g 50.0 97.2 59-131

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Noelle E Doyle, President

LT Environmental, Inc.

4600 West 60th Avenue

Arvada CO 80003

Rob Rebel

Project Number: [none]

Project: Noble - Booth USX EE 25-02D

### Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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