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Platteville, CO 80651



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www.nobleenergyinc.com

North America Division

August 30, 2011

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

RE: Ground water Monitoring Report
Lorenz F22-1, 2
API 05-123-15139
Remediation #5465
Sec. 22, T5N R65W
Weld County, Colorado

Dear Mr. Axelson:

Please find attached the Ground water Monitoring Report for the Lorenz F22-1,2. Noble Energy Inc. would like to claim business confidentiality protection for the information submitted in this letter, the supporting materials attached and all previous and subsequent correspondence related to this matter. Please contact the Noble Energy Environmental Department at (970) 785-5000 if you have any questions or require additional information.

Sincerely,

A handwritten signature in black ink, appearing to read 'Todd Cullum'.

Todd Cullum
Environmental Specialist

Attachments



GROUND WATER MONITORING REPORT AUGUST 2011

LORENZ F 22-1 TANK BATTERY

LT Environmental, Inc. (LTE), under the direction of Noble Energy, Inc. (Noble), conducted groundwater monitoring at the Lorenz F 22-1 Tank Battery (Site) on July 12, 2011. This monitoring event constitutes the second post-remediation monitoring event at this Site. Site history, remediation activities, well installation, and performance monitoring results have been described in preceding reports.

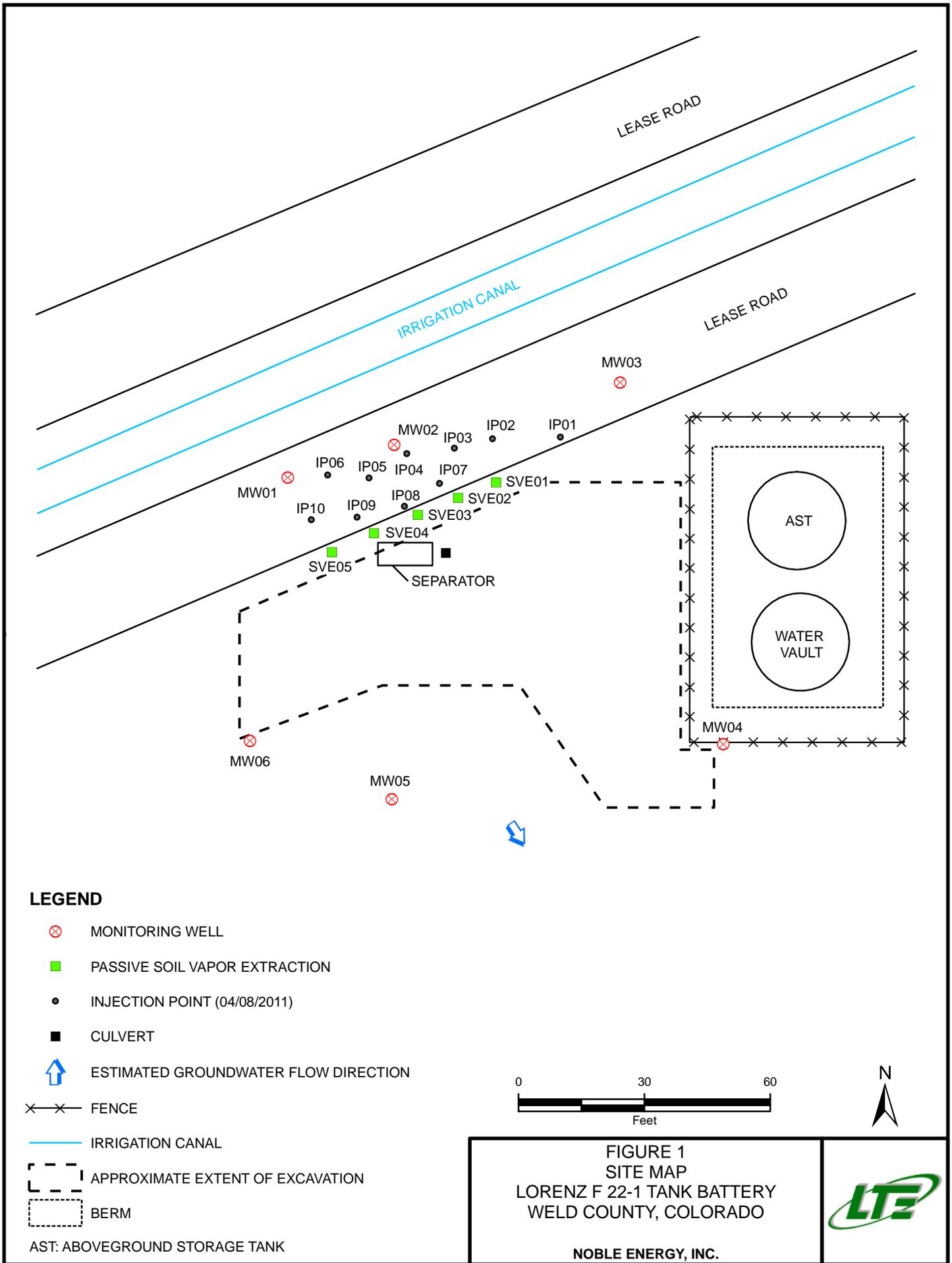
Monitoring wells (MW01 through MW06) were installed at the Site on April 22, 2011. The Site Map is presented as Figure 1. Groundwater level measurements were collected from the monitoring wells and are summarized in Table 1.

Depth to groundwater, which ranged from 2.90 feet below top of casing (btoc) in MW05 to 5.33 feet btoc in MW02, was used to calculate well-specific purge volumes. Following purging, groundwater 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.

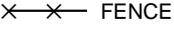
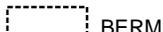
Groundwater analytical results, presented in Table 1, indicate BTEX concentrations are in compliance with Colorado Department of Public Health and Environment-Water Quality Control Commission Regulation 41 (WQCC Reg 41). The laboratory analytical report is included in the Appendix.

This monitoring event constitutes the first post remediation monitoring event in compliance with clean-up goals. Noble will continue to conduct quarterly groundwater monitoring events with the goal of obtaining four consecutive quarters with analytical results in compliance with WQCC Reg 41. The next quarterly groundwater monitoring event is scheduled for October 2011.

FIGURE



LEGEND

-  MONITORING WELL
-  PASSIVE SOIL VAPOR EXTRACTION
-  INJECTION POINT (04/08/2011)
-  CULVERT
-  ESTIMATED GROUNDWATER FLOW DIRECTION
-  FENCE
-  IRRIGATION CANAL
-  APPROXIMATE EXTENT OF EXCAVATION
-  BERM
- AST: ABOVEGROUND STORAGE TANK

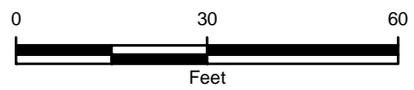


FIGURE 1
SITE MAP
 LORENZ F 22-1 TANK BATTERY
 WELD COUNTY, COLORADO

NOBLE ENERGY, INC.



TABLE

TABLE 1

GROUNDWATER ANALYTICAL DATA
 LORENZ F 22-1 TANK BATTERY
 WELD COUNTY, COLORADO
 NOBLE ENERGY, INC.

Well ID	Date	Depth to Water (feet btoc)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
MW01	4/26/2011	6.25	<1.0	<1.0	<1.0	<3.0
	7/12/2011	4.69	<1.0	<1.0	<1.0	<3.0
MW02	4/26/2011	6.69	44.3	<1.0	7.4	52.4
	7/12/2011	5.33	<1.0	<1.0	<1.0	<3.0
MW03	4/26/2011	5.81	<1.0	<1.0	<1.0	<3.0
	7/12/2011	4.20	<1.0	<1.0	<1.0	<3.0
MW04	4/26/2011	5.13	<1.0	<1.0	<1.0	<3.0
	7/12/2011	3.52	<1.0	<1.0	<1.0	<3.0
MW05	4/26/2011	5.00	<1.0	<1.0	<1.0	<3.0
	7/12/2011	2.90	<1.0	<1.0	<1.0	<3.0
MW06	4/26/2011	4.59	<1.0	<1.0	1.7	8.6
	7/12/2011	3.03	<1.0	<1.0	<1.0	<3.0
CDPHE WQCC Reg 41			5.0	560	700	1,400

NOTES:

btoc - below top of casing

µg/L - micrograms per liter

< - indicates result is less than the stated laboratory reporting limit

BOLD - indicates result exceeds the applicable standard

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

CDPHE WQCC Reg 41 - Colorado Department of Public Health and Environmental - Water Quality

Control Commission Regulation 41 covering Basic Standards for Ground Water

ATTACHMENT 1
LABORATORY ANALYTICAL REPORT



July 15, 2011

LT Environmental, Inc.

Rob Rebel

4600 West 60th Avenue

Arvada CO 80003

Project Name - Noble - Lorenz F22-1

Project Number - NEP1047

Attached are you analytical results for Noble - Lorenz F22-1 received by Origins Laboratory, Inc. July 12, 2011. This project is associated with Origins project number X107060-01.

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.

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



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

Project Number: NEP1047
Project Name: Noble - Lorenz F22-1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	X107060-01	Water	July 12, 2011 11:15	07/12/2011 16:19
MW-2	X107060-02	Water	July 12, 2011 11:20	07/12/2011 16:19
MW-3	X107060-03	Water	July 12, 2011 11:25	07/12/2011 16:19
MW-4	X107060-04	Water	July 12, 2011 10:45	07/12/2011 16:19
MW-5	X107060-05	Water	July 12, 2011 10:50	07/12/2011 16:19
MW-6	X107060-06	Water	July 12, 2011 11:00	07/12/2011 16:19

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

Project Number: NEP1047
 Project Name: Noble - Lorenz F22-1

www.originslaboratory.com

X107060

ORIGINS
 LABORATORY, INC

page 1 of 1

Client: LTE
 Address: _____
 Telephone Number: _____
 Email Address: _____

Project Manager: Rob Revel
 Project Name: Lorenz F22-1
 Project Number: NEP1047
 Samples Collected By: L. Heur

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Sampler #			Other
M1001	7-12-11	1115	2	X				X				Lab Filter	1
M1002	7-12-11	1120	2	X				X				Lab Filter	2
M1003	7-12-11	1125	2	X				X				Lab Filter	3
M1004	7-12-11	1015	2	X				X				Lab Filter	4
M1005	7-12-11	1050	2	X				X				Lab Filter	5
M1006	7-12-11	1100	2	X				X				Lab Filter	6
M1007	7-12-11	1105	1	X				X				Lab Filter	7
													8
													9
													10
Relinquished By: <u>[Signature]</u>	Date: 7-12-11	Time: 11:19	Received By: <u>[Signature]</u>	Date: 7/12/11	Time: 16:19	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"/>							

Data Decilitre Standard

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

Project Number: NEP1047
 Project Name: Noble - Lorenz F22-1

Origins Laboratory

F-012207-01
 Effective Date: 01/22/07

Sample Receipt Checklist

Origins Work Order: X107060

Client: LTE Client Project ID: Lorenz F22-1

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

Matrix (Check all that apply): _____ Soil/Solid Water _____ Other: _____
 (Describe)

Cooler ID					
Temp (°C)	<u>NA</u>				

Thermometer ID: NA

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C? NOTE: If samples are delivered within 5 hours of sampling, this requirement is waived provided that there is evidence that cooling has begun.			<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservation in the Comments column (e.g., HCl).			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note in the case narrative.

Jeff Smith Custodian Printed Name Jeff Smith Signature or Initials of Custodian 7/13/11 16:20 Date/Time

Origins Laboratory, Inc.



Noelle E Doyle, President

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

Project Number: NEP1047
 Project Name: Noble - Lorenz F22-1

MW-1

7/12/2011 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X107060-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	1G13004	07/13/2011	07/14/2011	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	3.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Project Number: NEP1047
 Project Name: Noble - Lorenz F22-1

MW-2

7/12/2011 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X107060-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	1G13004	07/13/2011	07/14/2011	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	3.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Project Number: NEP1047
 Project Name: Noble - Lorenz F22-1

MW-3

7/12/2011 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X107060-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	1G13004	07/13/2011	07/14/2011	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	3.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Project Number: NEP1047
 Project Name: Noble - Lorenz F22-1

MW-4

7/12/2011 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X107060-04 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	1G13004	07/13/2011	07/14/2011	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	3.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.4 %	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

Project Number: NEP1047
 Project Name: Noble - Lorenz F22-1

MW-5

7/12/2011 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X107060-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	1G13004	07/13/2011	07/14/2011	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	3.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Project Number: NEP1047
 Project Name: Noble - Lorenz F22-1

MW-6

7/12/2011 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X107060-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	1G13004	07/13/2011	07/14/2011	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	3.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.0 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Project Number: NEP1047
 Project Name: Noble - Lorenz F22-1

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 1G13004 - EPA 5030B										
Blank (1G13004-BLK1) Prepared: 07/13/2011 Analyzed: 07/13/2011										
Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
m,p-Xylene	ND	2.0	"							
o-Xylene	ND	1.0	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>70</i>		<i>"</i>	<i>62.5</i>		<i>112</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>62</i>		<i>"</i>	<i>62.5</i>		<i>99.2</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>67</i>		<i>"</i>	<i>62.5</i>		<i>107</i>	<i>70-130</i>			

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Project Number: NEP1047
 Project Name: Noble - Lorenz F22-1

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 1G13004 - EPA 5030B										
Blank (1G13004-BLK2)										
Prepared: 07/13/2011 Analyzed: 07/13/2011										
Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
m,p-Xylene	ND	2.0	"							
o-Xylene	ND	1.0	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>70</i>		<i>"</i>	<i>62.5</i>		<i>112</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>62</i>		<i>"</i>	<i>62.5</i>		<i>98.8</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>66</i>		<i>"</i>	<i>62.5</i>		<i>106</i>	<i>70-130</i>			

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Project Number: NEP1047
 Project Name: Noble - Lorenz F22-1

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 1G13004 - EPA 5030B										
LCS (1G13004-BS1)					Prepared: 07/13/2011 Analyzed: 07/13/2011					
Benzene	50.3	1.0	ug/L	50.0		101	70-130			
Toluene	51.1	1.0	"	50.0		102	70-130			
Ethylbenzene	54.5	1.0	"	50.0		109	70-130			
m,p-Xylene	113	2.0	"	100		113	70-130			
o-Xylene	56.9	1.0	"	50.0		114	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>67</i>		<i>"</i>	<i>62.5</i>		<i>107</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>62</i>		<i>"</i>	<i>62.5</i>		<i>98.6</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>67</i>		<i>"</i>	<i>62.5</i>		<i>107</i>	<i>70-130</i>			

Origins Laboratory, Inc.



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Noelle E Doyle, President

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

Project Number: NEP1047
 Project Name: Noble - Lorenz F22-1

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 1G13004 - EPA 5030B										
LCS (1G13004-BS2) Prepared: 07/13/2011 Analyzed: 07/13/2011										
Benzene	49.2	1.0	ug/L	50.0		98.3	70-130			
Toluene	50.0	1.0	"	50.0		99.9	70-130			
Ethylbenzene	53.1	1.0	"	50.0		106	70-130			
m,p-Xylene	110	2.0	"	100		110	70-130			
o-Xylene	55.4	1.0	"	50.0		111	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>67</i>		<i>"</i>	<i>62.5</i>		<i>107</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>62</i>		<i>"</i>	<i>62.5</i>		<i>98.4</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>67</i>		<i>"</i>	<i>62.5</i>		<i>108</i>	<i>70-130</i>			

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

Project Number: NEP1047
 Project Name: Noble - Lorenz F22-1

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 1G13004 - EPA 5030B

Matrix Spike (1G13004-MS1)	Source: X107021-02			Prepared: 07/13/2011 Analyzed: 07/13/2011						
Benzene	49.5	1.0	ug/L	50.0	ND	99.0	70-130			
Toluene	50.9	1.0	"	50.0	0.1	101	70-130			
Ethylbenzene	54.1	1.0	"	50.0	ND	108	70-130			
m,p-Xylene	112	2.0	"	100	ND	112	70-130			
o-Xylene	56.3	1.0	"	50.0	ND	113	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>68</i>		<i>"</i>	<i>62.5</i>		<i>109</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>62</i>		<i>"</i>	<i>62.5</i>		<i>99.8</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>68</i>		<i>"</i>	<i>62.5</i>		<i>109</i>	<i>70-130</i>			

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Noelle E Doyle, President

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

Project Number: NEP1047
 Project Name: Noble - Lorenz F22-1

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 1G13004 - EPA 5030B

Matrix Spike (1G13004-MS2)	Source: X107030-06			Prepared: 07/13/2011 Analyzed: 07/13/2011						
Benzene	49.7	1.0	ug/L	50.0	ND	99.5	70-130			
Toluene	50.9	1.0	"	50.0	0.1	102	70-130			
Ethylbenzene	53.9	1.0	"	50.0	ND	108	70-130			
m,p-Xylene	111	2.0	"	100	ND	111	70-130			
o-Xylene	56.3	1.0	"	50.0	ND	113	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>68</i>		<i>"</i>	<i>62.5</i>		<i>109</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>61</i>		<i>"</i>	<i>62.5</i>		<i>98.2</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>67</i>		<i>"</i>	<i>62.5</i>		<i>108</i>	<i>70-130</i>			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1G13004 - EPA 5030B

Matrix Spike Dup (1G13004-MSD1)	Source: X107021-02			Prepared: 07/13/2011 Analyzed: 07/13/2011						
Benzene	49.2	1.0	ug/L	50.0	ND	98.4	70-130	0.648	20	
Toluene	49.9	1.0	"	50.0	0.1	99.6	70-130	1.87	20	
Ethylbenzene	52.4	1.0	"	50.0	ND	105	70-130	3.19	20	
m,p-Xylene	110	2.0	"	100	ND	110	70-130	1.37	20	
o-Xylene	56.0	1.0	"	50.0	ND	112	70-130	0.641	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>69</i>		<i>"</i>	<i>62.5</i>		<i>111</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>61</i>		<i>"</i>	<i>62.5</i>		<i>97.9</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>67</i>		<i>"</i>	<i>62.5</i>		<i>107</i>	<i>70-130</i>			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1G13004 - EPA 5030B

Matrix Spike Dup (1G13004-MSD2)	Source: X107030-06			Prepared: 07/13/2011 Analyzed: 07/13/2011						
Benzene	50.4	1.0	ug/L	50.0	ND	101	70-130	1.28	20	
Toluene	51.6	1.0	"	50.0	0.1	103	70-130	1.35	20	
Ethylbenzene	54.5	1.0	"	50.0	ND	109	70-130	1.07	20	
m,p-Xylene	114	2.0	"	100	ND	114	70-130	2.49	20	
o-Xylene	57.3	1.0	"	50.0	ND	115	70-130	1.76	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>68</i>		<i>"</i>	<i>62.5</i>		<i>109</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>62</i>		<i>"</i>	<i>62.5</i>		<i>99.1</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>67</i>		<i>"</i>	<i>62.5</i>		<i>107</i>	<i>70-130</i>			

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference

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