

EXCAVATION SUMMARY REPORT

HAMBERT RG 32-5, 6, 7, 8 TANK BATTERY WELD COUNTY, COLORADO

JULY 2009

Prepared for:

**NOBLE ENERGY, INC.
Platteville, Colorado**



EXCAVATION SUMMARY REPORT
HAMBERT RG 32-5, 6, 7, 8 TANK BATTERY
WELD COUNTY, COLORADO

JULY 2009

Prepared for:

NOBLE ENERGY, INC.
804 Grand Avenue
Platteville, Colorado 80651

Prepared by:

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TABLE OF CONTENTS

EXECUTIVE SUMMARY	ii
SECTION 1.0 INTRODUCTION	1-1
1.1 SITE DESCRIPTION	1-1
1.2 SCOPE OF WORK.....	1-1
SECTION 2.0 SUMMARY OF FIELD ACTIVITIES.....	2-1
SECTION 3.0 ANALYTICAL RESULTS.....	3-1
SECTION 4.0 SUMMARY AND CONCLUSIONS	4-1

TABLE

TABLE 1	SOIL ANALYTICAL RESULTS
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FIGURES

FIGURE 1	SITE LOCATION MAP
FIGURE 2	SOIL SAMPLE LOCATION MAP

APPENDICES

APPENDIX A	SITE PHOTOGRAPHS
APPENDIX B	LABORATORY ANALYTICAL REPORTS

EXECUTIVE SUMMARY

This report was prepared by LT Environmental, Inc. (LTE), on behalf of Noble Energy, Inc. (Noble), to document remediation activities at the Hambert RG 32-5, 6, 7, 8 Tank Battery (Site).

The Site is located in the southeast quarter of the northwest quarter of Section 32, Township 4 North, Range 65 West of the Sixth Principal Meridian (Figure 1). The Site is on a vacant lot, approximately 2,500 feet southeast of the intersection of Weld County Road (WCR) 40 and WCR 39 in Weld County, Colorado.

The scope of work for this project included the excavation/removal of hydrocarbon impacted soils from a previously documented release, confirmation soil sampling and analysis, documentation, and health and safety monitoring. Current use of the Site includes oil and gas production surrounded by agricultural land.

On June 8, 2009, Noble contractors began excavating impacted soil at the Site. Noble and LTE personnel were onsite June 9, 2009 for field observation, documentation, and oversight activities, including collecting soil samples and directing soil removal from the excavated area. Impacted soils were hauled off to the Noble Land Treatment Facility in Weld County, Colorado. The excavation was backfilled with clean fill provided by the Noble Land Treatment Facility. A total volume of approximately 1,710 cubic yards of impacted soil was excavated and removed during this project. No groundwater was encountered during source removal activities, which reached a maximum depth of 13 feet below ground surface.

SECTION 1.0

INTRODUCTION

This report was prepared by LT Environmental, Inc. (LTE) for Noble Energy, Inc. (Noble) to document excavation activities at the Hambert RG 32-5, 6, 7, 8 Tank Battery (Site) (Figure 1). The purpose of this project was to remove hydrocarbon impacted soils from the Site.

1.1 SITE DESCRIPTION

The Site is located in the southeast quarter of the northwest quarter of Section 32, Township 4 North, Range 65 West of the Sixth Principal Meridian (Figure 1). The Site is on a vacant lot, approximately 2,500 feet southeast of the intersection between Weld County Road (WCR) 40 and WCR 39 in Weld County, Colorado.

The Site geology was predominantly observed as sandy, fine grained clay that extended from the ground surface to depths ranging from approximately 2 feet to 3 feet below ground surface (bgs). Beneath the sandy clay, very stiff clay was observed from approximately 3 feet to 13 feet bgs. Groundwater was not encountered during excavation activities.

The Site is located on top of a hill, at an elevation of approximately 4,930 feet above mean sea level in an area where topography gently slopes to the northeast. Surface topography in the area was modified for agricultural purposes. The Site is immediately surrounded by agricultural fields to the east, south and north, and horse pens to the west.

1.2 SCOPE OF WORK

The scope of work for this remediation project included the removal of impacted soils. Impacted soils were hauled offsite to the Noble Land Treatment Facility and replaced with clean fill provided by the Noble Land Treatment Facility.

During onsite activities, Noble and LTE personnel conducted field screening of soils, soil sampling, oversight of the excavation, health and safety monitoring, and documentation of onsite activities.

A summary of field activities, analytical results from soil sampling activities, and conclusions is presented in the subsequent sections.

SECTION 2.0

SUMMARY OF FIELD ACTIVITIES

During the period of June 9, June 10, and June 17, 2009, Noble contractors removed impacted soils from the tank battery area.

LTE personnel conducted field screening of organic vapor concentrations using a photoionization detector (PID) and collected confirmation soil samples to document excavation activities. Photographs of excavation activities are included as Appendix A.

The final dimensions of the excavation were approximately 73 feet long by 78 feet wide, and the total depth of the excavation was between 6 feet and 13 feet bgs. A total volume of approximately 1,710 cubic yards of impacted soil were excavated and transported offsite to the Noble Land Treatment Facility located in Weld County.

Soil samples were collected along the walls of the excavation. Excavation base confirmation samples were collected, as groundwater was not encountered at the Site. There will be no future groundwater monitoring conducted at the Site.

All samples were field-screened for organic vapor concentrations with a PID to determine if additional excavation was required. Once PID measurements indicated that impacted soil had been removed, a confirmation sample was collected for submittal to an analytical laboratory.

A total of 21 samples were collected from the excavation. Soil samples were submitted for analysis of total petroleum hydrocarbons (TPH) in the total volatile hydrocarbons-gasoline range organics (TVH-GRO) and total extractable hydrocarbons-diesel range organics (TEH-DRO) by United States Environmental Protection Agency (EPA) Modified Method 8015 and for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8260B.

Figure 2 illustrates the locations of the soil samples, as well as the excavation extent.

Following the completion of excavation activities, the excavation was backfilled with clean fill provided by the Noble Land Treatment Facility.

SECTION 3.0

ANALYTICAL RESULTS

Soil confirmation samples were collected in order to determine if soil concentrations exceeded Colorado Oil and Gas Conservation Commission (COGCC) standards. The COGCC has established standards for TPH at 500 milligrams per kilogram (mg/kg), as well as BTEX at 0.17 mg/kg for benzene, 85 mg/kg for toluene, 100 mg/kg for ethylbenzene, and 175 mg/kg for total xylenes. Confirmation soil samples were collected from the walls and base of the excavation. Soil sample locations are illustrated on Figure 2.

Analytical results indicate soil samples S10, S13, and S16 exceeded the COGCC standard for TPH, ranging from 800 mg/kg to 3,010 mg/kg. Analytical results indicate soil sample S15 exceeded the COGCC standard for benzene, at 0.313 mg/kg. All remaining soil analytical results were in compliance with COGCC standards. Locations where analytical results indicated soil was out of compliance were over-excavated until subsequent soil analytical results confirmed soil in compliance with COGCC standards.

Analytical results from soil samples collected along the final perimeter of the excavation and the base of the excavation were all in compliance with COGCC standards, indicating that impacted soils have been removed. Soil analytical results are summarized in Table 1. Copies of the laboratory analytical reports are included as Appendix B.

SECTION 4.0

SUMMARY AND CONCLUSIONS

On June 9, June 10, and June 17, 2009, Noble contractors excavated and removed approximately 1,710 cubic yards of impacted soil during the excavation activities at the Site.

During excavation activities, evidence of impact to the subsurface was observed ranging in depth from 4 feet to 13 feet bgs. LTE conducted field-screening of organic vapor concentrations and collection of soil confirmation samples for laboratory analysis from the excavated areas.

Impacted soils were excavated and transported offsite to the Noble Land Treatment Facility. Clean fill material was brought from the Noble Land Treatment Facility for use as backfill in the excavation.

LTE collected confirmation soil samples following completion of the soil excavation activities. Analytical results from soil samples collected along the final perimeter and base of the excavation indicated that the petroleum impacted soils had been removed to below the COGCC Standards.

Groundwater was not encountered during excavation activities. Due to the absence of groundwater in the excavation, groundwater monitoring activities were not conducted.

As shown by the work conducted at the Site and documented in this report, the Site has been successfully remediated and is compliant with all appropriate, relevant, and applicable requirements.

TABLE



TABLE 1

**SOIL ANALYTICAL DATA
HAMBERT RG 32-5, 6, 7, 8 TANK BATTERY
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.**

SOIL SAMPLE ID	DATE	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	TVH-GRO (mg/kg)	TEH-DRO (mg/kg)	TPH (mg/kg)
S01 (7')	6/9/2009	0.0486	0.0788	0.00728	0.0705	<50.0	<50.0	<100.0
S02 (6')	6/9/2009	0.101	0.330	<0.004	0.753	<50.0	<50.0	<100.0
S03 (6')	6/9/2009	<0.004	<0.004	<0.004	0.0138	<50.0	<50.0	<100.0
S04 (5')	6/9/2009	<0.004	<0.004	<0.004	0.0112	<50.0	<50.0	<100.0
S05 (5')	6/9/2009	<0.004	<0.004	<0.004	<0.012	<50.0	<50.0	<100.0
S06 (6')	6/9/2009	0.0111	<0.004	0.0196	0.119	<50.0	115	115
S07 (6')	6/9/2009	<0.004	<0.004	<0.004	<0.012	<50.0	<50.0	<100.0
S08 (5')	6/9/2009	<0.004	<0.004	<0.004	<0.012	<50.0	<50.0	<100.0
S09 (6')	6/9/2009	<0.004	<0.004	<0.004	0.00940	<50.0	<50.0	<100.0
S10 (10')	6/9/2009	0.00404	0.0143	0.0404	0.1975	1340	1670	3,010
S11 (13')	6/9/2009	<0.004	<0.004	<0.004	<0.012	<50.0	<50.0	<100.0
S12 (10')	6/9/2009	<0.004	<0.004	<0.004	<0.012	<50.0	<50.0	<100.0
S13 (4')	6/10/2009	0.0138	0.0234	0.206	0.3159	670	591	1,261
S14 (10')	6/10/2009	0.0405	0.232	0.108	1.369	<50.0	<50.0	<100.0
S15 (6')	6/10/2009	0.313	1.03	<0.004	2.269	<50.0	<50.0	<100.0
S16 (5')	6/10/2009	<0.004	0.00648	<0.004	1.5734	548	252	800
S17 (5')	6/10/2009	<0.004	<0.004	<0.004	<0.012	<50.0	<50.0	<100.0
S18 (7')	6/17/2009	<0.004	<0.004	<0.004	<0.012	<50.0	<50.0	<100.0
S19 (10')	6/17/2009	0.0108	<0.004	0.0297	0.3603	<50.0	<50.0	<100.0
S20 (7')	6/17/2009	<0.004	<0.004	<0.004	<0.012	<50.0	<50.0	<100.0
S21 (7')	6/17/2009	<0.004	<0.004	<0.004	<0.012	<50.0	<50.0	<100.0
COGCC Standard		0.17	85	100	175			500

NOTES:

(7') - Sample depth in feet below ground surface

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

TVH-GRO and TEH-DRO analyzed by EPA Method 8015M

TPH - Total Petroleum Hydrocarbons is the combination of TVH-GRO and TEH-DRO

TVH-GRO - Total Volatile Hydrocarbons - Gasoline Range Organics

TEH-DRO - Total Extractable Hydrocarbons - Diesel Range Organics

mg/kg - milligrams per kilogram

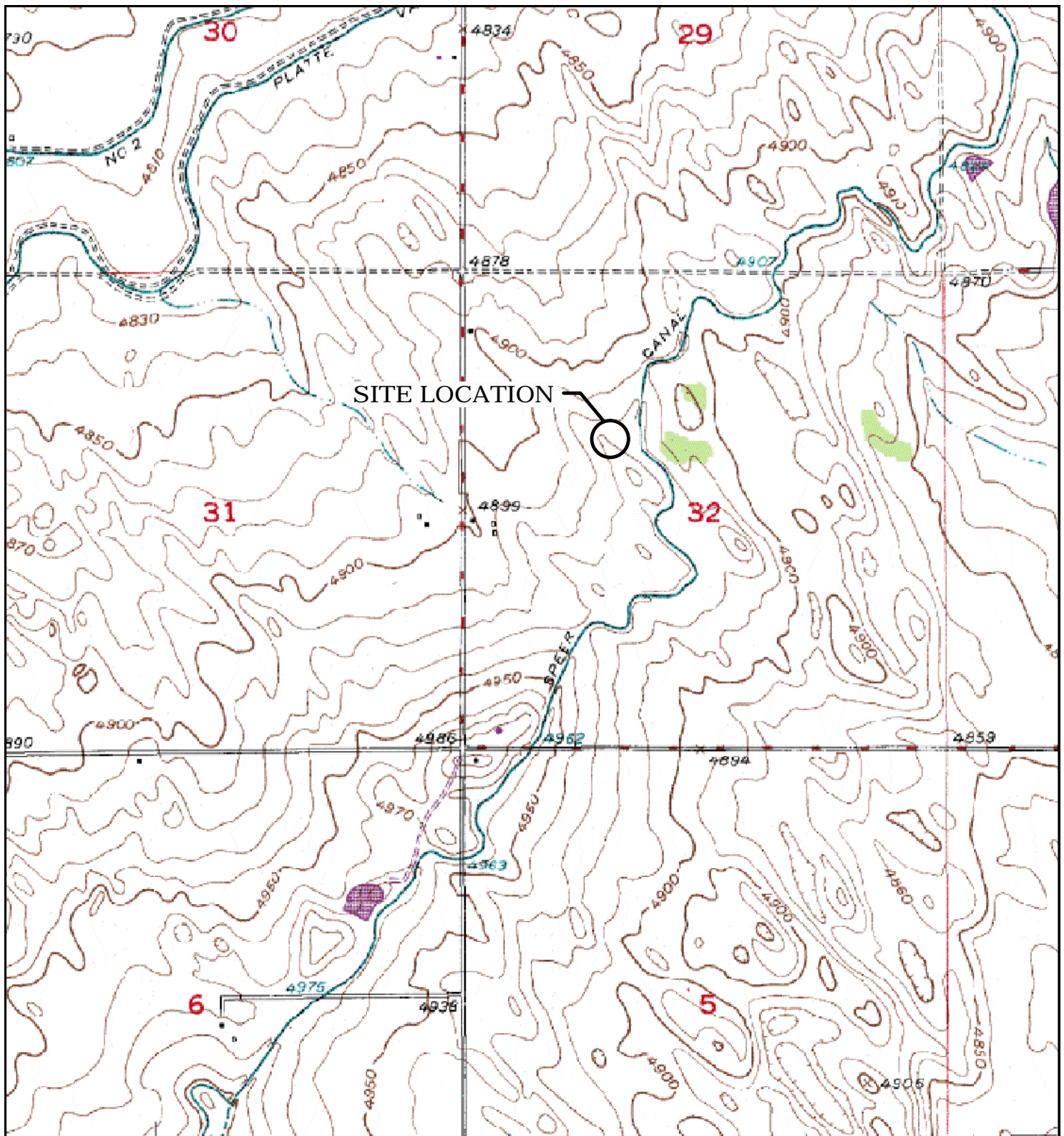
< indicates result is less than the stated laboratory method detection limit

Bold indicates result is above the applicable standard

COGCC - Colorado Oil and Gas Conservation Commission



FIGURES



LEGEND

○ SITE LOCATION



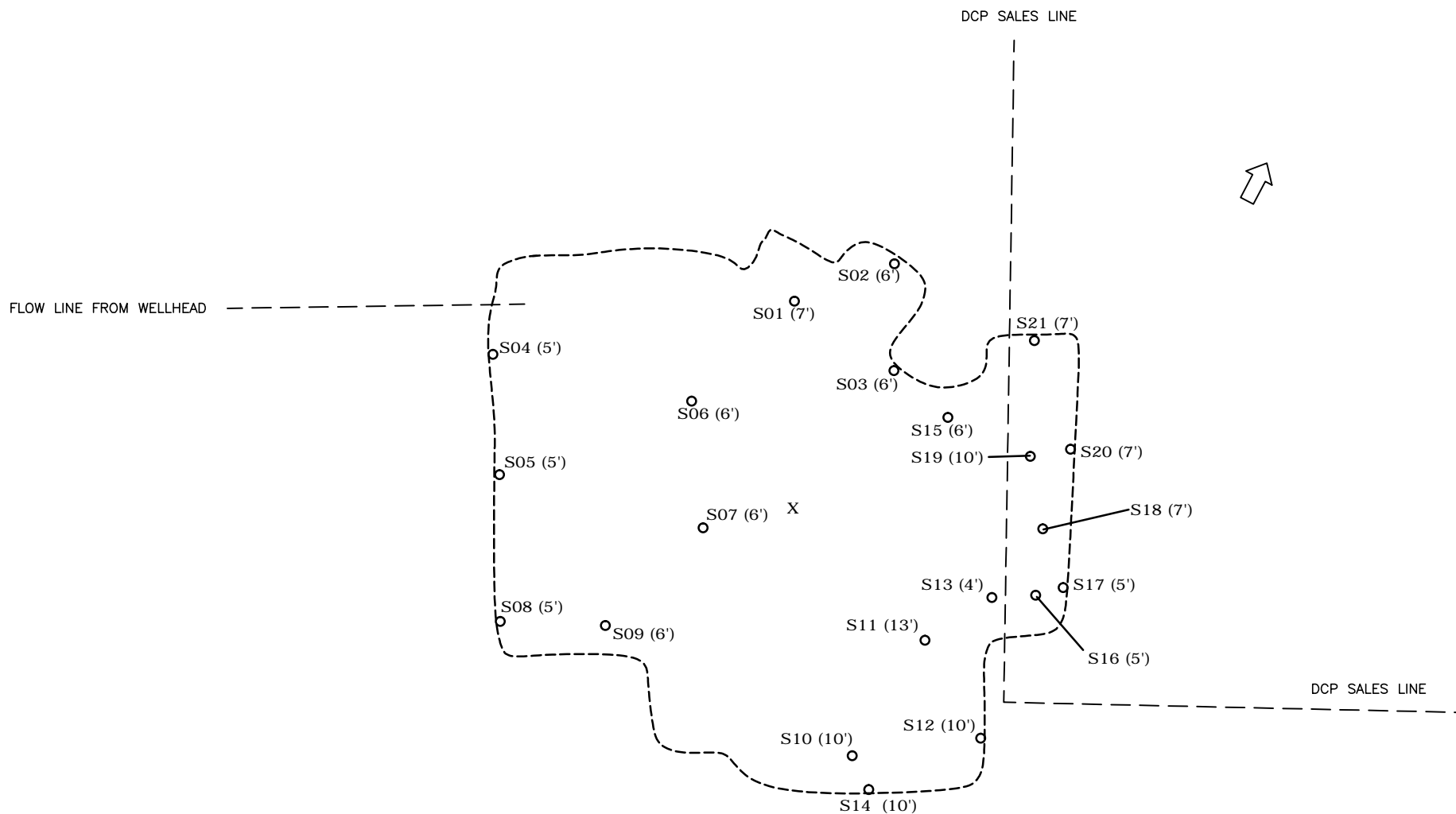
0 375 750 1500
FEET

SOURCE: TOPOZONE.COM
USGS 7.5' QUADRANGLE
(NAD27)





FIGURE 1
SITE LOCATION MAP
HAMBERT RG 32-5,6,7,8
WELD COUNTY, CO
NOBLE ENERGY, INC.



NEP091001_SL 6/09



LEGEND

- S01(7')  SOIL SAMPLE LOCATION (DEPTH)
-  FLOW LINE
- X RELEASE LOCATION
-  EXTENT OF EXCAVATION
-  ESTIMATED GROUNDWATER FLOW DIRECTION

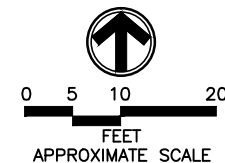


FIGURE 2
SOIL SAMPLE LOCATION MAP
HAMBERT RG 32-5,6,7,8
WELD COUNTY, CO
NOBLE ENERGY, INC.



APPENDIX A
SITE PHOTOGRAPHS



APPENDIX 1
HAMBERT RG 32-5, 6, 7, 8 TANK BATTERY EXCAVATION
NOBLE ENERGY, INC.



Photograph 1: Excavation along the north wall. The flowline to wellhead is visible (on the left).



Photograph 2: Hand location and excavation of impacted soils along DCP sales line.

APPENDIX B
LABORATORY ANALYTICAL REPORTS





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

June 18, 2009

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

Brian Dodek
Project Number: NEP0910
Project: Noble – Hambert RG 32–5,6,7,8

Attached are the analytical results for Noble – Hambert RG 32–5,6,7,8 received by Origins Laboratory, Inc. 6/17/2009 2:35:00PM. Please let us know if you have any questions, or if we can help with anything at all.

A handwritten signature in black ink, appearing to read "Noelle E Doyle", is written in a cursive style.

Noelle E Doyle
Laboratory Manager

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.

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Denver, Colorado 80211
303.433.1322 | Laboratory
303.265.9645 | Fax



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

Brian Dodek
Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Sampled	Date Received
S18(7')	X906062-01	Soil	6/17/2009 12:00:00PM	06/17/2009 14:35
S19(10')	X906062-02	Soil	6/17/2009 12:05:00PM	06/17/2009 14:35
S20(7')	X906062-03	Soil	6/17/2009 12:10:00PM	06/17/2009 14:35
S21(7')	X906062-04	Soil	6/17/2009 12:15:00PM	06/17/2009 14:35

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, Laboratory Manager

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

Brian Dodek
Project Number: NEP0910
Project: Noble - Hambert RG
32-5,6,7,8

290906X
page 1 of 1



originslaboratory.com

Client: LT
Address: 4600 West 60th Avenue
Telephone Number: 303.265.9645
E-Mail Address: LT@LTENV.COM

Project Manager: BDD
Project Name: Hambert 32-5,6,7,8
Project Number: NEP0910
Samples Collected by: TJ

290906X

Sample ID - Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other -	Groundwater	Soil	Air - Summa Canister #		
S18(7)	6/17/09	1200	1	X							X DPG	1
S19(10)	6/17/09	1205	1								X BTEX	2
S20(7)	6/17/09	1210	1								X DPG	3
S21(7)	6/17/09	1215	1								X BTEX	4
												5
												6
												7
												8
												9
												10

Relinquished by: [Signature] Date: 6/17/09 Time: 1435

Relinquished by: [Signature] Date: 6/17/09 Time: 1435

Temperature Upon Receipt: 32

Time Around Time: 24-hr 48-hr 72-hr

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

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, Laboratory Manager

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

Brian Dodek
Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

S18(7')

X906062–01 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	9F17004	06/17/2009	06/18/2009
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
o-Xylene	ND	0.00400	"	"	"	"	"
m,p-Xylene	ND	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	108 %	77.6–134			"	"	"
Surrogate: Toluene-d8	86.7 %	81.4–121			"	"	"
Surrogate: 4-Bromofluorobenzene	89.1 %	74.7–123			"	"	"

GRO/DRO by EPA 8015M

Gasoline (C6–C10)	ND	50.0	mg/kg	1	9F17003	06/17/2009	06/18/2009
Diesel (C10–C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	172 %	65–140			"	"	" S-04
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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, Laboratory Manager

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

Brian Dodek
Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

S19(10')

X906062–02 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	0.0108	0.00400	mg/kg	1	9F17004	06/17/2009	06/18/2009
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	0.0297	0.00400	"	"	"	"	"
o-Xylene	0.0413	0.00400	"	"	"	"	"
m,p-Xylene	0.319	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	112 %	77.6–134			"	"	"
Surrogate: Toluene-d8	89.7 %	81.4–121			"	"	"
Surrogate: 4-Bromofluorobenzene	80.6 %	74.7–123			"	"	"

GRO/DRO by EPA 8015M

Gasoline (C6–C10)	ND	50.0	mg/kg	1	9F17003	06/17/2009	06/18/2009
Diesel (C10–C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	130 %	65–140			"	"	"
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Noelle E Doyle, Laboratory Manager

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Project: Noble – Hambert RG
32–5,6,7,8

S20(7')

X906062–03 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	9F17004	06/17/2009	06/18/2009
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
o-Xylene	ND	0.00400	"	"	"	"	"
m,p-Xylene	ND	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	108 %	77.6–134	"	"	"
Surrogate: Toluene-d8	92.8 %	81.4–121	"	"	"
Surrogate: 4-Bromofluorobenzene	88.5 %	74.7–123	"	"	"

GRO/DRO by EPA 8015M

Gasoline (C6–C10)	ND	50.0	mg/kg	1	9F17003	06/17/2009	06/18/2009
Diesel (C10–C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	124 %	65–140	"	"	"
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Origins Laboratory, Inc.

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

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Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

S21(7')

X906062–04 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	9F17004	06/17/2009	06/18/2009
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
o-Xylene	ND	0.00400	"	"	"	"	"
m,p-Xylene	ND	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	109 %	77.6–134	"	"	"
Surrogate: Toluene-d8	88.6 %	81.4–121	"	"	"
Surrogate: 4-Bromofluorobenzene	78.5 %	74.7–123	"	"	"

GRO/DRO by EPA 8015M

Gasoline (C6–C10)	ND	50.0	mg/kg	1	9F17003	06/17/2009	06/18/2009
Diesel (C10–C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	127 %	65–140	"	"	"
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Origins Laboratory, Inc.

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LT Environmental, Inc.
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 Arvada CO 80003

Brian Dodek
 Project Number: NEP0910
 Project: Noble – Hambert RG
 32–5,6,7,8

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
Batch 9F17003 – Default Prep GC–Semi										
Blank (9F17003–BLK1)					Prepared: 06/17/2009 Analyzed: 06/17/2009					
Gasoline (C6–C10)	ND	50.0	mg/kg							
Diesel (C10–C28)	ND	50.0	"							
Surrogate: o–Terphenyl	60.8		g	50.0		122	65–140			
Blank (9F17003–BLK2)					Prepared: 06/17/2009 Analyzed: 06/17/2009					
Gasoline (C6–C10)	ND	50.0	mg/kg							
Diesel (C10–C28)	ND	50.0	"							
Surrogate: o–Terphenyl	63.3		g	50.0		127	65–140			
LCS (9F17003–BS1)					Prepared: 06/17/2009 Analyzed: 06/17/2009					
Gasoline (C6–C10)	576	50.0	mg/kg	500		115	65–140			
Diesel (C10–C28)	42.8	50.0	"				60–140			
Surrogate: o–Terphenyl	62.9		g	50.0		126	65–140			
LCS (9F17003–BS2)					Prepared: 06/17/2009 Analyzed: 06/17/2009					
Gasoline (C6–C10)	559	50.0	mg/kg	500		112	65–140			
Diesel (C10–C28)	41.0	50.0	"				60–140			
Surrogate: o–Terphenyl	61.2		g	50.0		122	65–140			
Matrix Spike (9F17003–MS1)					Source: X906055–05		Prepared: 06/17/2009 Analyzed: 06/17/2009			
Gasoline (C6–C10)	423	50.0	mg/kg	500	ND	84.7	65–130			
Diesel (C10–C28)	37.8	50.0	"		ND		60–140			
Surrogate: o–Terphenyl	62.0		g	50.0		124	65–140			
Matrix Spike (9F17003–MS2)					Source: X906055–06		Prepared: 06/17/2009 Analyzed: 06/17/2009			
Gasoline (C6–C10)	459	50.0	mg/kg	500	ND	91.8	65–130			
Diesel (C10–C28)	38.8	50.0	"		ND		60–140			
Surrogate: o–Terphenyl	61.5		g	50.0		123	65–140			

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4600 West 60th Avenue
Arvada CO 80003

Brian Dodek
Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

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 9F17003 – Default Prep GC–Semi

Matrix Spike Dup (9F17003–MSD1)		Source: X906055–05			Prepared: 06/17/2009 Analyzed: 06/17/2009					
Gasoline (C6–C10)	487	50.0	mg/kg	500	ND	97.3	65–130	13.9	20	
Diesel (C10–C28)	39.6	50.0	"		ND		60–140	4.75	25	
Surrogate: o–Terphenyl	61.3		g	50.0		123	65–140			
Matrix Spike Dup (9F17003–MSD2)		Source: X906055–06			Prepared: 06/17/2009 Analyzed: 06/17/2009					
Gasoline (C6–C10)	408	50.0	mg/kg	500	ND	81.7	65–130	11.7	20	
Diesel (C10–C28)	37.0	50.0	"		ND		60–140	4.86	25	
Surrogate: o–Terphenyl	61.0		g	50.0		122	65–140			

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Arvada CO 80003

Brian Dodek
Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

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 9F17004 – EPA 5030B

Blank (9F17004–BLK1)

Prepared: 06/17/2009 Analyzed: 06/18/2009

Benzene	ND	0.004	mg/kg							
Toluene	ND	0.004	"							
Ethylbenzene	ND	0.004	"							
o-Xylene	ND	0.004	"							
m,p-Xylene	ND	0.008	"							
Surrogate: 1,2-Dichloroethane-d4	70.7		ug/L	62.5		113	77.6–134			
Surrogate: Toluene-d8	55.2		"	62.5		88.4	81.4–121			
Surrogate: 4-Bromofluorobenzene	53.0		"	62.5		84.8	74.7–123			

LCS (9F17004–BS1)

Prepared: 06/17/2009 Analyzed: 06/18/2009

Benzene	0.21	0.004	mg/kg	0.200		103	81.7–142			
Toluene	0.22	0.004	"	0.200		110	72.2–134			
Surrogate: 1,2-Dichloroethane-d4	74.1		ug/L	62.5		119	77.6–134			
Surrogate: Toluene-d8	52.0		"	62.5		83.3	81.4–121			
Surrogate: 4-Bromofluorobenzene	54.7		"	62.5		87.6	74.7–123			

LCS Dup (9F17004–BSD1)

Prepared: 06/17/2009 Analyzed: 06/18/2009

Benzene	0.22	0.004	mg/kg	0.200		111	81.7–142	7.16	200	
Toluene	0.16	0.004	"	0.200		77.8	72.2–134	34.5	200	
Surrogate: 1,2-Dichloroethane-d4	77.4		ug/L	62.5		124	77.6–134			
Surrogate: Toluene-d8	53.9		"	62.5		86.2	81.4–121			
Surrogate: 4-Bromofluorobenzene	54.3		"	62.5		86.9	74.7–123			

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Brian Dodek
Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Origins Laboratory, Inc.

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June 15, 2009

LT Environmental, Inc.
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Brian Dodek
Project Number: NEP0910
Project: Noble – Hambert RG 32–5,6,7,8

Attached are the analytical results for Noble – Hambert RG 32–5,6,7,8 received by Origins Laboratory, Inc. 6/11/2009 8:30:00AM. Please let us know if you have any questions, or if we can help with anything at all.

Noelle E Doyle
Laboratory Manager

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.

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Brian Dodek
Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Sampled	Date Received
S13	X906039–01	Soil	6/10/2009 1:40:00PM	06/11/2009 08:30
S14	X906039–02	Soil	6/10/2009 1:50:00PM	06/11/2009 08:30
S15	X906039–03	Soil	6/10/2009 1:30:00PM	06/11/2009 08:30
S16	X906039–04	Soil	6/10/2009 2:00:00PM	06/11/2009 08:30
S17	X906039–05	Soil	6/10/2009 2:10:00PM	06/11/2009 08:30

Origins Laboratory, Inc.

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Brian Dodek
 Project Number: NEP0910
 Project: Noble – Hambert RG
 32–5,6,7,8

X906039

page 1 of 1



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Client: LT E
 Address: ON FILE
 Telephone Number: ON FILE
 E-Mail Address: ON FILE

Project Manager: BDD
 Project Name: Hambert RG 32-5,6,7,8
 Project Number: NEP0910
 Samples Collected by: TED

Sample ID - Description	Date Sampled	Time Sampled	Preservative				Matrix		Analysis	Sample Instructions
			Unpreserved	HCl	HNO ₃	Other - H ₂ O	Groundwater	Soil		
S13	6/10/09	1340	X							1
S14	6/10/09	1350								2
S15	6/10/09	1330								3
S16	6/10/09	1340								4
S17	6/10/09	1340								5
LA										6
										7
										8
										9
										10

Relinquished by: [Signature] Date: 6/11/09 Time: 8:30

Relinquished by: [Signature] Date: 6/11/09 Time: 8:30

Temperature Upon Receipt: 32

Turn Around Time: 24-hr

Same Day: X 48-hr: 72-hr:

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Origins Laboratory, Inc.

[Signature]

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Brian Dodek
Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

S13

X906039–01 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	0.0138	0.00400	mg/kg	1	9F11003	06/11/2009	06/11/2009
Toluene	0.0234	0.00400	"	"	"	"	"
Ethylbenzene	0.206	0.00400	"	"	"	"	"
o-Xylene	0.0229	0.00400	"	"	"	"	"
m,p-Xylene	0.293	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	93.9 %	77.6–134			"	"	"
Surrogate: Toluene-d8	67.6 %	81.4–121			"	"	" S-04
Surrogate: 4-Bromofluorobenzene	70.1 %	74.7–123			"	"	" S-04

GRO/DRO by EPA 8015M

Gasoline (C6–C10)	670	50.0	mg/kg	1	9F11002	06/11/2009	06/11/2009
Diesel (C10–C28)	591	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	132 %	65–140			"	"	"
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Brian Dodek
Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

S14

X906039–02 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	0.0405	0.00400	mg/kg	1	9F11003	06/11/2009	06/11/2009
Toluene	0.232	0.00400	"	"	"	"	"
Ethylbenzene	0.108	0.00400	"	"	"	"	"
o-Xylene	0.159	0.00400	"	"	"	"	"
m,p-Xylene	1.21	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	101 %	77.6–134	"	"	"
Surrogate: Toluene-d8	82.2 %	81.4–121	"	"	"
Surrogate: 4-Bromofluorobenzene	98.3 %	74.7–123	"	"	"

GRO/DRO by EPA 8015M

Gasoline (C6–C10)	ND	50.0	mg/kg	1	9F11002	06/11/2009	06/11/2009
Diesel (C10–C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	107 %	65–140	"	"	"
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Project: Noble – Hambert RG
32–5,6,7,8

S15

X906039–03 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	0.313	0.00400	mg/kg	1	9F11003	06/11/2009	06/11/2009
Toluene	1.03	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
o-Xylene	0.419	0.00400	"	"	"	"	"
m,p-Xylene	1.85	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	98.0 %	77.6–134			"	"	"
Surrogate: Toluene-d8	91.0 %	81.4–121			"	"	"
Surrogate: 4-Bromofluorobenzene	111 %	74.7–123			"	"	"

GRO/DRO by EPA 8015M

Gasoline (C6–C10)	ND	50.0	mg/kg	1	9F11002	06/11/2009	06/11/2009
Diesel (C10–C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	106 %	65–140			"	"	"
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Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

S16

X906039–04 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	9F11003	06/11/2009	06/11/2009
Toluene	0.00684	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
o-Xylene	0.0734	0.00400	"	"	"	"	"
m,p-Xylene	1.50	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	101 %	77.6–134			"	"	"
Surrogate: Toluene-d8	81.1 %	81.4–121			"	"	" S-04
Surrogate: 4-Bromofluorobenzene	83.1 %	74.7–123			"	"	"

GRO/DRO by EPA 8015M

Gasoline (C6–C10)	548	50.0	mg/kg	1	9F11002	06/11/2009	06/11/2009
Diesel (C10–C28)	252	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	110 %	65–140			"	"	"
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Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

S17

X906039–05 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	9F11003	06/11/2009	06/11/2009
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
o-Xylene	ND	0.00400	"	"	"	"	"
m,p-Xylene	ND	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	101 %	77.6–134	"	"	"
Surrogate: Toluene-d8	96.5 %	81.4–121	"	"	"
Surrogate: 4-Bromofluorobenzene	96.9 %	74.7–123	"	"	"

GRO/DRO by EPA 8015M

Gasoline (C6–C10)	ND	50.0	mg/kg	1	9F11002	06/11/2009	06/11/2009
Diesel (C10–C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	111 %	65–140	"	"	"
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Brian Dodek
 Project Number: NEP0910
 Project: Noble – Hambert RG
 32–5,6,7,8

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
Batch 9F11002 – Default Prep GC–Semi										
Blank (9F11002–BLK1)					Prepared: 06/11/2009 Analyzed: 06/12/2009					
Gasoline (C6–C10)	ND	50.0	mg/kg							
Diesel (C10–C28)	ND	50.0	"							
Surrogate: o–Terphenyl	51.5		g	50.0		103	65–140			
LCS (9F11002–BS1)					Prepared: 06/11/2009 Analyzed: 06/12/2009					
Gasoline (C6–C10)	1330	50.0	mg/kg	1000		133	65–140			
Diesel (C10–C28)	67.2	50.0	"				60–140			
Surrogate: o–Terphenyl	69.3		g	50.0		139	65–140			
Matrix Spike (9F11002–MS1)					Source: X906041–01		Prepared: 06/11/2009 Analyzed: 06/12/2009			
Gasoline (C6–C10)	917	50.0	mg/kg	1000	ND	91.7	65–130			
Diesel (C10–C28)	55.2	50.0	"		ND		60–140			
Surrogate: o–Terphenyl	62.2		g	50.0		124	65–140			
Matrix Spike Dup (9F11002–MSD1)					Source: X906041–01		Prepared: 06/11/2009 Analyzed: 06/13/2009			
Gasoline (C6–C10)	1400	50.0	mg/kg	1000	ND	140	65–130	41.4	20	QM–07
Diesel (C10–C28)	207	50.0	"		ND		60–140	116	25	QM–07
Surrogate: o–Terphenyl	59.8		g	50.0		120	65–140			

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Brian Dodek
 Project Number: NEP0910
 Project: Noble – Hambert RG
 32–5,6,7,8

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 9F11003 – EPA 5030B

Blank (9F11003–BLK1)

Prepared: 06/11/2009 Analyzed: 06/11/2009

Benzene	ND	0.004	mg/kg							
Toluene	ND	0.004	"							
Ethylbenzene	ND	0.004	"							
o-Xylene	ND	0.004	"							
m,p-Xylene	ND	0.008	"							
Surrogate: 1,2-Dichloroethane-d4	61.8		ug/L	62.5		98.8	77.6–134			
Surrogate: Toluene-d8	61.3		"	62.5		98.1	81.4–121			
Surrogate: 4-Bromofluorobenzene	57.8		"	62.5		92.4	74.7–123			

LCS (9F11003–BS1)

Prepared: 06/11/2009 Analyzed: 06/11/2009

Benzene	0.23	0.004	mg/kg	0.200		115	81.7–142			
Toluene	0.21	0.004	"	0.200		104	72.2–134			
Surrogate: 1,2-Dichloroethane-d4	61.2		ug/L	62.5		98.0	77.6–134			
Surrogate: Toluene-d8	63.4		"	62.5		102	81.4–121			
Surrogate: 4-Bromofluorobenzene	58.0		"	62.5		92.8	74.7–123			

Matrix Spike (9F11003–MS1)

Source: X906041–01

Prepared: 06/11/2009 Analyzed: 06/11/2009

Benzene	0.23	0.004	mg/kg	0.200	ND	115	89.6–143			
Toluene	0.19	0.004	"	0.200	0.002	94.2	73–141			
Surrogate: 1,2-Dichloroethane-d4	58.0		ug/L	62.5		92.8	77.6–134			
Surrogate: Toluene-d8	64.5		"	62.5		103	81.4–121			
Surrogate: 4-Bromofluorobenzene	59.0		"	62.5		94.4	74.7–123			

Matrix Spike Dup (9F11003–MSD1)

Source: X906041–01

Prepared: 06/11/2009 Analyzed: 06/11/2009

Benzene	0.25	0.004	mg/kg	0.200	ND	123	89.6–143	6.62	13.1	
Toluene	0.20	0.004	"	0.200	0.002	101	73–141	6.67	20.9	
Surrogate: 1,2-Dichloroethane-d4	58.5		ug/L	62.5		93.5	77.6–134			
Surrogate: Toluene-d8	64.2		"	62.5		103	81.4–121			
Surrogate: 4-Bromofluorobenzene	64.8		"	62.5		104	74.7–123			

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Brian Dodek
Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

Origins Laboratory, Inc.

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Noelle E Doyle, Laboratory Manager



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June 11, 2009

LT Environmental, Inc.
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Arvada CO 80003

Brian Dodek
Project Number: NEP0910
Project: Noble – Hambert RG 32–5,6,7,8

Attached are the analytical results for Noble – Hambert RG 32–5,6,7,8 received by Origins Laboratory, Inc. 6/9/2009 4:56:00PM. Please let us know if you have any questions, or if we can help with anything at all.

A handwritten signature in black ink, appearing to read "Noelle E Doyle".

Noelle E Doyle
Laboratory Manager

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.

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

Brian Dodek
Project Number: NEP0910
Project: Noble – Lambert RG
32–5,6,7,8

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Sampled	Date Received
S01 (7')	X906030-01	Soil	6/9/2009 12:00:00PM	06/09/2009 16:56
S02 (6')	X906030-02	Soil	6/9/2009 12:05:00PM	06/09/2009 16:56
S03 (6')	X906030-03	Soil	6/9/2009 12:10:00PM	06/09/2009 16:56
S04 (5')	X906030-04	Soil	6/9/2009 12:15:00PM	06/09/2009 16:56
S05 (5')	X906030-05	Soil	6/9/2009 12:20:00PM	06/09/2009 16:56
S06 (6')	X906030-06	Soil	6/9/2009 12:25:00PM	06/09/2009 16:56
S07 (6')	X906030-07	Soil	6/9/2009 12:30:00PM	06/09/2009 16:56
S08 (5')	X906030-08	Soil	6/9/2009 12:35:00PM	06/09/2009 16:56
S09 (6')	X906030-09	Soil	6/9/2009 12:40:00PM	06/09/2009 16:56
S10 (9')	X906030-10	Soil	6/9/2009 12:45:00PM	06/09/2009 16:56
S11 (13')	X906030-11	Soil	6/9/2009 12:50:00PM	06/09/2009 16:56
S12 (10')	X906030-12	Soil	6/9/2009 12:55:00PM	06/09/2009 16:56

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Brian Dodek
Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

X906030
page 1 of 1



originslaboratory.com

Project Manager: BD
Project Name: Hambert RG 32-5,6,7,8
Project Number: NEP0910
Samples Collected by: TED

Client: LTE
Address:
Telephone Number: ONE/LE
E-Mail Address:

Sample ID - Description	Date Sampled	Time Sampled	Preservative				Matrix	Analysis	Sample Instructions
			Unpreserved	HCl	HNO ₃	Other - Ice			
S01 (7)	6/9/09	1200	X				Soil	805M	Pease
S02 (6)	6/9/09	1205	X				Groundwater	806M	Push
S03 (6)	6/9/09	1210	X				Other - Ice	807M	Soil, 506, set by 8-8:30am
S04 (5)	6/9/09	1215	X				Other - Ice	808M	Call Tm w/ verbal res-its
S05 (5)	6/9/09	1220	X				Other - Ice	809M	720-880-8107
S06 (6)	6/9/09	1225	X				Other - Ice	810M	Thanks!
S07 (6)	6/9/09	1230	X				Other - Ice	811M	
S08 (5)	6/9/09	1235	X				Other - Ice	812M	
S09 (6)	6/9/09	1240	X				Other - Ice	813M	
S10 (9)	6/9/09	1245	X				Other - Ice	814M	
Relinquished by: <u>BD</u>			Date: <u>6/9/09</u>		Time: <u>1650</u>		Received by: <u>BD</u>		
Relinquished by: <u>BD</u>			Date: <u>6/9/09</u>		Time: <u>1656</u>		Received by: <u>BD</u>		
Turn Around Time:			Same Day: <input checked="" type="checkbox"/>		24-hr: <input type="checkbox"/>		48-hr: <input type="checkbox"/>		
			Standard: <input type="checkbox"/>		72-hr: <input type="checkbox"/>				

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Brian Dodek
Project Number: NEP0910
Project: Noble – Hambert RG
32-5,6,7,8



O'BRIEN
LABORATORY, INC.

Project Manager- BDJ
Project Name- Hemlock RG 32-5, 6, 7, 8
Project Number- NEP 0410
Samples Collected by- TED

Client- LITE
Address-
Telephone Number- ONYLL
E-Mail Address-

Sample ID - Description	Date Sampled	Time Sampled	Number of Containers	Preservative						Matrix	Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other -	Groundwater	Soil				Air - Summa Canister #
511 (15')	6/9/09	1250	1	X								80152	1
512 (10')	"	1255	1	X								DR0 GR0 BTEX	2
													3
													4
													5
													6
													7
													8
													9
													10
Relinquished by: 	Date: 6/9/09	Time: 1656		Received by: 	Date: 6/9/09	Time: 1656							Temperature Upon Receipt: Same Day <input checked="" type="checkbox"/> 24-hr <input type="checkbox"/> 48-hr <input type="checkbox"/> 72-hr <input type="checkbox"/>
Relinquished by: 	Date: 6/9/09	Time: 1656		Received by: 	Date: 6/9/09	Time: 1656							Turn Around Time: Same Day <input checked="" type="checkbox"/> 24-hr <input type="checkbox"/> 48-hr <input type="checkbox"/> 72-hr <input type="checkbox"/>

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Brian Dodek
Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

S01 (7')

X906030–01 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	0.0486	0.00400	mg/kg	1	9F09004	06/09/2009	06/10/2009
Toluene	0.0788	0.00400	"	"	"	"	"
Ethylbenzene	0.00728	0.00400	"	"	"	"	"
o-Xylene	0.0134	0.00400	"	"	"	"	"
m,p-Xylene	0.0571	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	99.7 %	77.6–134	"	"	"
Surrogate: Toluene-d8	92.3 %	81.4–121	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	74.7–123	"	"	"

GRO/DRO by EPA 8015M

Gasoline (C6–C10)	ND	50.0	mg/kg	1	9F09002	06/09/2009	06/10/2009
Diesel (C10–C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	130 %	65–140	"	"	"
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Brian Dodek
Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

S02 (6')

X906030–02 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	0.101	0.00400	mg/kg	1	9F09004	06/09/2009	06/10/2009
Toluene	0.330	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
o-Xylene	0.126	0.00400	"	"	"	"	"
m,p-Xylene	0.627	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	89.5 %	77.6–134			"	"	"
Surrogate: Toluene-d8	95.5 %	81.4–121			"	"	"
Surrogate: 4-Bromofluorobenzene	114 %	74.7–123			"	"	"

GRO/DRO by EPA 8015M

Gasoline (C6–C10)	ND	50.0	mg/kg	1	9F09002	06/09/2009	06/10/2009
Diesel (C10–C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	145 %	65–140			"	"	" S-04
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Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

S03 (6')

X906030–03 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	9F09004	06/09/2009	06/10/2009
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
o-Xylene	ND	0.00400	"	"	"	"	"
m,p-Xylene	0.0138	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	75.9 %	77.6–134	"	"	"	S-GC
Surrogate: Toluene-d8	101 %	81.4–121	"	"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	74.7–123	"	"	"	"

GRO/DRO by EPA 8015M

Gasoline (C6–C10)	ND	50.0	mg/kg	1	9F09002	06/09/2009	06/10/2009
Diesel (C10–C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	128 %	65–140	"	"	"	"
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32–5,6,7,8

S04 (5')

X906030–04 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	9F09004	06/09/2009	06/10/2009
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
o-Xylene	ND	0.00400	"	"	"	"	"
m,p-Xylene	0.0112	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	73.4 %	77.6–134	"	"	"	S-GC
Surrogate: Toluene-d8	102 %	81.4–121	"	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	74.7–123	"	"	"	"

GRO/DRO by EPA 8015M

Gasoline (C6–C10)	ND	50.0	mg/kg	1	9F09002	06/09/2009	06/10/2009
Diesel (C10–C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	134 %	65–140	"	"	"	"
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Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

S05 (5')

X906030–05 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	9F09004	06/09/2009	06/10/2009
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
o-Xylene	ND	0.00400	"	"	"	"	"
m,p-Xylene	ND	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	74.9 %	77.6–134	"	"	"	"	" S-GC
Surrogate: Toluene-d8	103 %	81.4–121	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	74.7–123	"	"	"	"	"

GRO/DRO by EPA 8015M

Gasoline (C6–C10)	ND	50.0	mg/kg	1	9F09002	06/09/2009	06/10/2009
Diesel (C10–C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	134 %	65–140	"	"	"	"	"
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Project: Noble – Hambert RG
32–5,6,7,8

S06 (6')

X906030–06 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	0.0111	0.00400	mg/kg	1	9F09004	06/09/2009	06/10/2009
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	0.0196	0.00400	"	"	"	"	"
o-Xylene	ND	0.00400	"	"	"	"	"
m,p-Xylene	0.119	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	100 %	77.6–134			"	"	"
Surrogate: Toluene-d8	92.6 %	81.4–121			"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	74.7–123			"	"	"

GRO/DRO by EPA 8015M

Gasoline (C6–C10)	ND	50.0	mg/kg	1	9F09002	06/09/2009	06/10/2009
Diesel (C10–C28)	115	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	126 %	65–140			"	"	"
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Brian Dodek
Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

S07 (6')

X906030–07 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	9F09004	06/09/2009	06/10/2009
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
o-Xylene	ND	0.00400	"	"	"	"	"
m,p-Xylene	ND	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	95.0 %	77.6–134	"	"	"
Surrogate: Toluene-d8	96.1 %	81.4–121	"	"	"
Surrogate: 4-Bromofluorobenzene	110 %	74.7–123	"	"	"

GRO/DRO by EPA 8015M

Gasoline (C6–C10)	ND	50.0	mg/kg	1	9F09002	06/09/2009	06/10/2009
Diesel (C10–C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	148 %	65–140	"	"	" S-04
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Brian Dodek
Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

S08 (5')

X906030–08 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	9F09004	06/09/2009	06/10/2009
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
o-Xylene	ND	0.00400	"	"	"	"	"
m,p-Xylene	ND	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	77.9 %	77.6–134	"	"	"
Surrogate: Toluene-d8	104 %	81.4–121	"	"	"
Surrogate: 4-Bromofluorobenzene	98.7 %	74.7–123	"	"	"

GRO/DRO by EPA 8015M

Gasoline (C6–C10)	ND	50.0	mg/kg	1	9F09002	06/09/2009	06/10/2009
Diesel (C10–C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	129 %	65–140	"	"	"
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Brian Dodek
Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

S09 (6')

X906030–09 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	9F09004	06/09/2009	06/10/2009
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
o-Xylene	ND	0.00400	"	"	"	"	"
m,p-Xylene	0.00940	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	75.8 %	77.6–134	"	"	"	S-GC
Surrogate: Toluene-d8	104 %	81.4–121	"	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	74.7–123	"	"	"	"

GRO/DRO by EPA 8015M

Gasoline (C6–C10)	ND	50.0	mg/kg	1	9F09002	06/09/2009	06/10/2009
Diesel (C10–C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	131 %	65–140	"	"	"	"
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Brian Dodek
Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

S10 (9')

X906030–10 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	0.00404	0.00400	mg/kg	1	9F09004	06/09/2009	06/10/2009
Toluene	0.0143	0.00400	"	"	"	"	"
Ethylbenzene	0.0404	0.00400	"	"	"	"	"
o-Xylene	0.0125	0.00400	"	"	"	"	"
m,p-Xylene	0.185	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	75.9 %	77.6–134	"	"	"	"	" S-GC
Surrogate: Toluene-d8	86.2 %	81.4–121	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	83.9 %	74.7–123	"	"	"	"	"

GRO/DRO by EPA 8015M

Gasoline (C6–C10)	1340	50.0	mg/kg	1	9F09002	06/09/2009	06/10/2009
Diesel (C10–C28)	1670	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	131 %	65–140	"	"	"	"	"
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Brian Dodek
Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

S11 (13')

X906030–11 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	9F09004	06/09/2009	06/10/2009
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
o-Xylene	ND	0.00400	"	"	"	"	"
m,p-Xylene	ND	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	78.1 %	77.6–134	"	"	"
Surrogate: Toluene-d8	102 %	81.4–121	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	74.7–123	"	"	"

GRO/DRO by EPA 8015M

Gasoline (C6–C10)	ND	50.0	mg/kg	1	9F09002	06/09/2009	06/10/2009
Diesel (C10–C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	129 %	65–140	"	"	"
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303.433.1322 | Laboratory
303.265.9645 | Fax



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

Brian Dodek
Project Number: NEP0910
Project: Noble – Hambert RG
32–5,6,7,8

S12 (10')

X906030–12 (Soil)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

BTEX by EPA 8260B

Benzene	ND	0.00400	mg/kg	1	9F09004	06/09/2009	06/10/2009
Toluene	ND	0.00400	"	"	"	"	"
Ethylbenzene	ND	0.00400	"	"	"	"	"
o-Xylene	ND	0.00400	"	"	"	"	"
m,p-Xylene	ND	0.00800	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	77.1 %	77.6–134	"	"	"	"	" S-GC
Surrogate: Toluene-d8	100 %	81.4–121	"	"	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	74.7–123	"	"	"	"	"

GRO/DRO by EPA 8015M

Gasoline (C6–C10)	ND	50.0	mg/kg	1	9F09002	06/09/2009	06/10/2009
Diesel (C10–C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	132 %	65–140	"	"	"	"	"
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Origins Laboratory, Inc.

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Noelle E Doyle, Laboratory Manager

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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 9F09002 – Default Prep GC–Semi

LCS (9F09002–BS1)

Prepared: 06/09/2009 Analyzed: 06/10/2009

Gasoline (C6–C10)	603	50.0	mg/kg	500		121	65–140			
Diesel (C10–C28)	102	50.0	"				60–140			
Surrogate: o–Terphenyl	38.0		g	50.0		76.0	65–140			

Matrix Spike (9F09002–MS1)

Source: X906028–04

Prepared: 06/09/2009 Analyzed: 06/10/2009

Gasoline (C6–C10)	613	50.0	mg/kg	500	ND	123	65–130			
Diesel (C10–C28)	99.2	50.0	"		28.9		60–140			
Surrogate: o–Terphenyl	40.7		g	50.0		81.3	65–140			

Matrix Spike Dup (9F09002–MSD1)

Source: X906028–04

Prepared: 06/09/2009 Analyzed: 06/10/2009

Gasoline (C6–C10)	616	50.0	mg/kg	500	ND	123	65–130	0.633	20	
Diesel (C10–C28)	101	50.0	"		28.9		60–140	1.64	25	
Surrogate: o–Terphenyl	39.6		g	50.0		79.1	65–140			

Batch 9F09005 – Default Prep GC–Semi

Blank (9F09005–BLK1)

Prepared: 06/09/2009 Analyzed: 06/09/2009

Gasoline (C6–C10)	ND	50.0	mg/kg							
Diesel (C10–C28)	ND	50.0	"							
Surrogate: o–Terphenyl	39.6		g	50.0		79.2	65–140			

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 32–5,6,7,8

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 9F09004 – EPA 5030B

Blank (9F09004–BLK1)

Prepared: 06/09/2009 Analyzed: 06/10/2009

Benzene	ND	0.004	mg/kg							
Toluene	ND	0.004	"							
Ethylbenzene	ND	0.004	"							
o-Xylene	ND	0.004	"							
m,p-Xylene	ND	0.008	"							
Surrogate: 1,2-Dichloroethane-d4	59.3		ug/L	62.5		94.9	77.6–134			
Surrogate: Toluene-d8	61.8		"	62.5		98.9	81.4–121			
Surrogate: 4-Bromofluorobenzene	59.2		"	62.5		94.6	74.7–123			

LCS (9F09004–BS1)

Prepared: 06/09/2009 Analyzed: 06/10/2009

Benzene	0.26	0.004	mg/kg	0.200		133	81.7–142			
Toluene	0.24	0.004	"	0.200		119	72.2–134			
Surrogate: 1,2-Dichloroethane-d4	60.2		ug/L	62.5		96.3	77.6–134			
Surrogate: Toluene-d8	62.7		"	62.5		100	81.4–121			
Surrogate: 4-Bromofluorobenzene	62.1		"	62.5		99.4	74.7–123			

Matrix Spike (9F09004–MS1)

Source: X906030–03

Prepared: 06/09/2009 Analyzed: 06/10/2009

Benzene	0.22	0.004	mg/kg	0.200	0.002	109	89.6–143			
Toluene	0.16	0.004	"	0.200	0.003	77.6	73–141			
Surrogate: 1,2-Dichloroethane-d4	58.8		ug/L	62.5		94.0	77.6–134			
Surrogate: Toluene-d8	62.0		"	62.5		99.3	81.4–121			
Surrogate: 4-Bromofluorobenzene	63.3		"	62.5		101	74.7–123			

Matrix Spike Dup (9F09004–MSD1)

Source: X906030–03

Prepared: 06/09/2009 Analyzed: 06/10/2009

Benzene	0.21	0.004	mg/kg	0.200	0.002	105	89.6–143	3.13	13.1	
Toluene	0.16	0.004	"	0.200	0.003	77.9	73–141	0.404	20.9	
Surrogate: 1,2-Dichloroethane-d4	57.3		ug/L	62.5		91.7	77.6–134			
Surrogate: Toluene-d8	63.3		"	62.5		101	81.4–121			
Surrogate: 4-Bromofluorobenzene	61.0		"	62.5		97.6	74.7–123			

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Notes and Definitions

S–GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
S–04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference

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