

GROUNDWATER MONITORING REPORT MAY 2010

COLLINS 14-20 TANK BATTERY

On March 3, 2010 and April 14, 2010, LT Environmental, Inc. (LTE) conducted groundwater sampling on behalf of Noble Energy, Inc. (Noble), at the Collins 14-20 Tank Battery (Site). Based upon persistent elevated levels of benzene observed during March 2010 sampling, a groundwater polishing amendment was applied at the Site. Following this recent work, the April 2010 sampling event was conducted and constitutes the first post remediation performance monitoring event at the Site. Site history, assessment, and prior remediation activities have been described in preceding reports. A Site Map is presented as Figure 1.

Following March 2010 groundwater sampling, Noble contractors exposed a 20 feet by 20 feet area around monitoring well SB14 to 2 feet below groundwater and applied 200 pounds of a groundwater amendment. The groundwater amendment consists of activated carbon and electron acceptors designed to promote biodegradation of petroleum hydrocarbons. Monitoring well SB14 was destroyed during March 2010 remediation activities and was replaced March 31, 2010 as SB14-R. The SB14-R well log is attached as Appendix A. Following remediation work, the Site was sampled again on April 14, 2010 to evaluate the effectiveness of the remediation program and begin a new cycle of quarterly sampling.

Groundwater level measurements, which ranged from 18.88 feet below top of casing (btoc) in SB14 to 20.84 feet btoc in SB08 during the March sampling event and 19.10 feet btoc in SB12 to 20.95 feet btoc in SB08 in April, are summarized in Table 1. Depth to groundwater was used to calculate well-specific purge volumes. Following purging, samples were collected and 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 8260B.

Analytical results from the monitoring wells sampled during the March sampling event (Table 1), indicate BTEX concentrations in all wells, except SB14, are in compliance with Colorado Department of Public Health and Environment Water Quality Control Commission Regulation 41 (WQCC Reg 41). Monitoring well SB14 exhibited a benzene concentration of 14.5 micrograms per liter ($\mu\text{g/L}$) and a total xylenes concentration of 2,540 $\mu\text{g/L}$. WQCC Reg 41 concentration limits for benzene and total xylenes are 5.0 $\mu\text{g/L}$ and 1,400 $\mu\text{g/L}$, respectively. Analytical results from the April sampling event indicate remediation work was successful, and all wells are in compliance with WQCC Reg 41.

LTE will continue to conduct quarterly groundwater monitoring events with the goal of observing four consecutive quarters of analytical results in compliance with applicable regulatory standards. The next quarterly groundwater sampling event is scheduled for July 2010.

TABLE

TABLE 1

**GROUNDWATER ANALYTICAL DATA
COLLINS 14-20 TANK BATTERY
ADAMS COUNTY, COLORADO
NOBLE ENERGY, INC.**

MONITORING		DEPTH TO	BENZENE	TOLUENE	ETHYLBENZENE	TOTAL
WELL	DATE	WATER (feet btoc)	(ug/L)	(ug/L)	(ug/L)	XYLENES (ug/L)
SB08	10/29/2008	22.56	<1.0	<1.0	<1.0	<3.0
	2/17/2009	22.49	<1.0	<1.0	<1.0	<3.0
	2/27/2009	22.71	<1.0	<1.0	<1.0	<3.0
	7/1/2009	22.63	<1.0	<1.0	<1.0	<3.0
	9/21/2009	21.03	<1.0	<1.0	<1.0	<3.0
	12/8/2009	19.52	<1.0	<1.0	<1.0	<3.0
	3/3/2010	20.84	<1.0	<1.0	<1.0	<3.0
	4/14/2010	20.95	<1.0	<1.0	<1.0	<1.0
SB09	11/5/2008	19.65	<1.0	<1.0	<1.0	<3.0
	2/17/2009	21.95	<1.0	<1.0	<1.0	<3.0
	2/27/2009	22.04	<1.0	<1.0	<1.0	<3.0
	7/1/2009	22.11	<1.0	<1.0	<1.0	<3.0
	9/21/2009	20.05	<1.0	<1.0	<1.0	<3.0
	12/8/2009	19.89	<1.0	<1.0	<1.0	<3.0
	3/3/2010	19.27	<1.0	<1.0	<1.0	<3.0
	4/14/2010	20.55	<1.0	<1.0	<1.0	<1.0
SB11	2/17/2009	20.70	<1.0	<1.0	<1.0	<3.0
	2/27/2009	21.07	<1.0	<1.0	<1.0	<3.0
	7/1/2009	20.98	1.36	<1.0	<1.0	<3.0
	9/21/2009	19.70	<1.0	<1.0	<1.0	<3.0
	12/8/2009	18.79	<1.0	<1.0	<1.0	<3.0
	3/3/2010	19.11	<1.0	<1.0	<1.0	<3.0
	4/14/2010	19.35	<1.0	<1.0	<1.0	<1.0
SB12	2/17/2009	20.45	<1.0	<1.0	1.32	<3.0
	2/27/2009	20.78	<1.0	<1.0	<1.0	<3.0
	7/1/2009	20.70	<1.0	<1.0	<1.0	<3.0
	9/21/2009	19.85	<1.0	<1.0	<1.0	<3.0
	12/8/2009	18.59	<1.0	<1.0	<1.0	<3.0
	3/3/2010	18.94	<1.0	<1.0	<1.0	<3.0
	4/14/2010	19.10	<1.0	<1.0	<1.0	<1.0
SB13	2/27/2009	21.27	2.18	16.3	182	1,037
	7/1/2009	21.31	14.2	66.4	218	1,517
	9/21/2009	19.34	1.92	7.67	<1.0	521
	12/8/2009	19.18	<1.0	15.0	37.8	384.0
	3/3/2010	19.46	<1.0	12.7	86.1	700
	4/14/2010	19.65	<1.0	11.9	37.0	280
SB14	2/27/2009	19.71	17.9	486	240	2,335
	7/1/2009	20.77	2.5	<1.0	4.59	74.8
	9/21/2009	19.68	<1.0	<1.0	1.46	3.18
	12/8/2009	18.61	14.3	388	298	3,107
	3/3/2010	18.88	14.5	149	247	2,540
SB14-R	4/14/2010	19.55	<1.0	<1.0	<1.0	<1.0
CDPHE WQCC Reg 41			5.0	560	700	1,400

NOTES:

btoc - below top of casing

ug/L - micrograms per liter

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

Bold - indicates concentration exceeds CDPHE WQCC Reg 41

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

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

Commission Regulation 41 covering Basic Standards for Groundwater



FIGURE

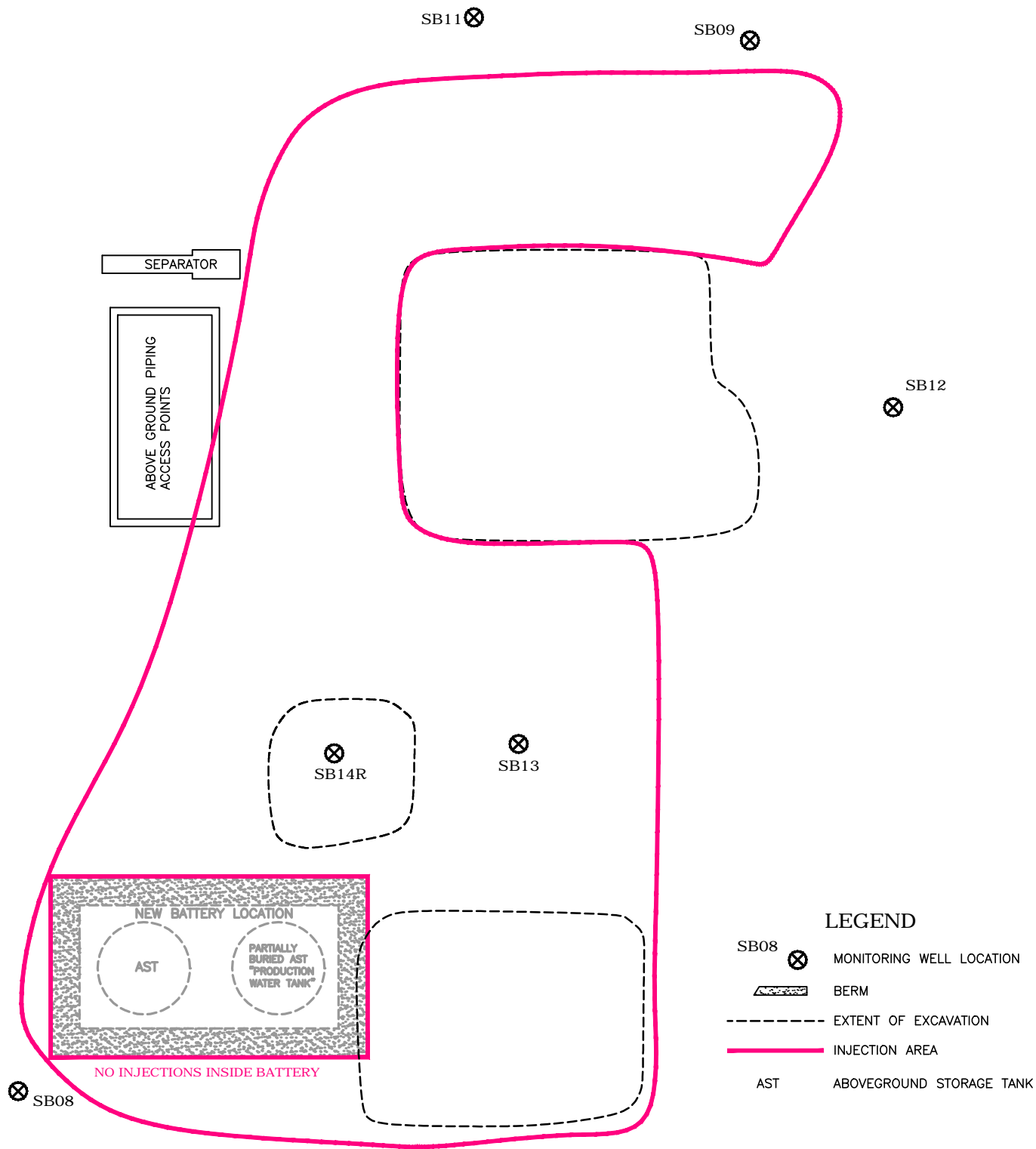


FIGURE 1
 BENZENE IN GROUNDWATER
 COLLINS 14-20 TANK BATTERY
 ADAMS COUNTY, COLORADO
 NOBLE ENERGY, INC.



APPENDIX A
ANALYTICAL REPORTS



5/20/2010

LT Environmental, Inc.

Brian Dodek

4600 West 60th Avenue

Arvada

CO

80003

Project Name- Noble - Collins 14-20

Project Number- NEP0835.05

Attached are your analytical results for Noble - Collins 14-20 received by Origins Laboratory, Inc. March 3, 2010 3:00 pm. This project is associated with Origins project number X003031-01.

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

Page 1 of 11



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

Brian Dodek
Project Number: NEP0835.05
Project: Noble - Collins 14-20

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Sampled	Date Received
SB08	X003031-01	Water	3/3/2010 10:25:00AM	03/03/2010 15:00
SB09	X003031-02	Water	3/3/2010 11:30:00AM	03/03/2010 15:00
SB11	X003031-03	Water	3/3/2010 11:50:00AM	03/03/2010 15:00
SB12	X003031-04	Water	3/3/2010 11:05:00AM	03/03/2010 15:00
SB13	X003031-05	Water	3/3/2010 10:55:00AM	03/03/2010 15:00
SB14	X003031-06	Water	3/3/2010 10:40:00AM	03/03/2010 15:00

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

Brian Dodek
Project Number: NEP0835.05
Project: Noble - Collins 14-20

ORIGINS	LABORATORY, INC.	www.originslaboratory.com
Client:	L.S. Env.	X00303 page <input checked="" type="checkbox"/> of <input type="checkbox"/>
Address:	4600 W 60th Ave	
Telephone Number:	303-433-9788	Project Manager: Ms. Harrison
Email Address:	m.harrison@ltenv.com	Project Name: Collins / 4-20
		Project Number: NEPUB35
		Samples Collected By: G. Cusson

Final Address: 11000

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Origins Laboratory, Inc.

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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

Brian Dodek
Project Number: NEP0835.05
Project: Noble - Collins 14-20

SB08

3/3/2010 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X003031-01 (Water)

BTEX by EPA 8260B

Benzene	ND	0.00100	mg/L	1	OC04006	03/04/2010	03/05/2010
Toluene	ND	0.00100	"	"	"	"	"
Ethylbenzene	ND	0.00100	"	"	"	"	"
Xylenes, total	ND	0.00300	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	94.2 %	73.5-130	"	"	"
Surrogate: Toluene-d8	99.2 %	79.3-113	"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	81.5-117	"	"	"

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

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

Brian Dodek
Project Number: NEP0835.05
Project: Noble - Collins 14-20

SB09

3/3/2010 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X003031-02 (Water)

BTEX by EPA 8260B

Benzene	ND	0.00100	mg/L	1	OC04006	03/04/2010	03/05/2010	
Toluene	ND	0.00100	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	
Xylenes, total	ND	0.00300	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	91.8 %	73.5-130			"	"	"
Surrogate: Toluene-d8	100 %	79.3-113			"	"	"
Surrogate: 4-Bromofluorobenzene	112 %	81.5-117			"	"	"

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

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

Brian Dodek
Project Number: NEP0835.05
Project: Noble - Collins 14-20

SB11

3/3/2010 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X003031-03 (Water)

BTEX by EPA 8260B

Benzene	ND	0.00100	mg/L	1	OC04006	03/04/2010	03/05/2010
Toluene	ND	0.00100	"	"	"	"	"
Ethylbenzene	ND	0.00100	"	"	"	"	"
Xylenes, total	ND	0.00300	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	92.6 %	73.5-130	"	"	"
Surrogate: Toluene-d8	97.7 %	79.3-113	"	"	"
Surrogate: 4-Bromofluorobenzene	109 %	81.5-117	"	"	"

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

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

Brian Dodek
Project Number: NEP0835.05
Project: Noble - Collins 14-20

SB12**3/3/2010 11:05:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X003031-04 (Water)

BTEX by EPA 8260B

Benzene	ND	0.00100	mg/L	1	OC04006	03/04/2010	03/05/2010	
Toluene	ND	0.00100	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	
Xylenes, total	ND	0.00300	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.0 %	73.5-130	"	"	"	"	"	
Surrogate: Toluene-d8	95.3 %	79.3-113	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %	81.5-117	"	"	"	"	"	

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

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

Brian Dodek
Project Number: NEP0835.05
Project: Noble - Collins 14-20

SB13

3/3/2010 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X003031-05 (Water)

BTEX by EPA 8260B

Benzene	ND	0.00100	mg/L	1	OC04006	03/04/2010	03/05/2010	
Toluene	0.0127	0.00100	"	"	"	"	"	
Ethylbenzene	0.0861	0.0100	"	10	"	"	03/08/2010	
Xylenes, total	0.700	0.0300	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.8 %	73.5-130	"	"	03/05/2010
Surrogate: Toluene-d8	98.1 %	79.3-113	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	81.5-117	"	"	"

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

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

Brian Dodek
Project Number: NEP0835.05
Project: Noble - Collins 14-20

SB14

3/3/2010 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X003031-06 (Water)

BTEX by EPA 8260B

Benzene	0.0145	0.00100	mg/L	1	OC04006	03/04/2010	03/05/2010	
Toluene	0.149	0.0100	"	10	"	"	03/05/2010	
Ethylbenzene	0.247	0.0100	"	"	"	"	"	
Xylenes, total	2.54	0.0300	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	91.4 %	73.5-130	"	"	"
Surrogate: Toluene-d8	106 %	79.3-113	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	81.5-117	"	"	"

Origins Laboratory, Inc.



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Noelle E Doyle, Laboratory Manager

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

Brian Dodek
Project Number: NEP0835.05
Project: Noble - Collins 14-20

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
Batch OC04006 - EPA 5030B										
Blank (OC04006-BLK1)					Prepared: 03/04/2010 Analyzed: 03/04/2010					
Benzene	ND	0.001	mg/L							
Toluene	ND	0.001	"							
Ethylbenzene	ND	0.001	"							
o-Xylene	ND	0.001	"							
m,p-Xylene	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	58.5		ug/L	62.5		93.6	73.5-130			
Surrogate: Toluene-d8	68.7		"	62.5		110	79.3-113			
Surrogate: 4-Bromofluorobenzene	69.7		"	62.5		111	81.5-117			
LCS (OC04006-BS1)					Prepared: 03/04/2010 Analyzed: 03/04/2010					
Benzene	0.05	0.001	mg/L	0.0500		97.8	77.3-128			
Toluene	0.05	0.001	"	0.0500		97.6	81.7-118			
Surrogate: 1,2-Dichloroethane-d4	55.6		ug/L	62.5		88.9	73.5-130			
Surrogate: Toluene-d8	68.8		"	62.5		110	79.3-113			
Surrogate: 4-Bromofluorobenzene	70.0		"	62.5		112	81.5-117			
Matrix Spike (OC04006-MS1)					Source: X003006-04	Prepared: 03/04/2010 Analyzed: 03/04/2010				
Benzene	0.05	0.001	mg/L	0.0500	ND	95.7	74.5-132			
Toluene	0.05	0.001	"	0.0500	ND	94.9	74.2-116			
Surrogate: 1,2-Dichloroethane-d4	55.1		ug/L	62.5		88.1	73.5-130			
Surrogate: Toluene-d8	69.0		"	62.5		110	79.3-113			
Surrogate: 4-Bromofluorobenzene	71.9		"	62.5		115	81.5-117			
Matrix Spike Dup (OC04006-MSD1)					Source: X003006-04	Prepared: 03/04/2010 Analyzed: 03/04/2010				
Benzene	0.05	0.001	mg/L	0.0500	ND	98.2	74.5-132	2.56	13.1	
Toluene	0.05	0.001	"	0.0500	ND	98.9	74.2-116	4.09	21.2	
Surrogate: 1,2-Dichloroethane-d4	56.0		ug/L	62.5		89.6	73.5-130			
Surrogate: Toluene-d8	70.0		"	62.5		112	79.3-113			
Surrogate: 4-Bromofluorobenzene	68.8		"	62.5		110	81.5-117			

Origins Laboratory, Inc.

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Noelle E Doyle, Laboratory Manager

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

Brian Dodek
Project Number: NEP0835.05
Project: Noble - Collins 14-20

Notes and Definitions

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

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

4/19/2010

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

Project Name- Noble - Collins 14-20

Project Number- NEP0835

Attached are your analytical results for Noble - Collins 14-20 received by Origins Laboratory, Inc. April 14, 2010 5:00 pm. This project is associated with Origins project number X004111-01.

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

Matthew Harrison
Project Number: NEP0835
Project: Noble - Collins 14-20

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Sampled	Date Received
SB08	X004111-01	Water	4/14/2010 12:55:00PM	04/14/2010 17:00
SB09	X004111-02	Water	4/14/2010 2:50:00PM	04/14/2010 17:00
SB11	X004111-03	Water	4/14/2010 2:20:00PM	04/14/2010 17:00
SB12	X004111-04	Water	4/14/2010 1:40:00PM	04/14/2010 17:00
SB13	X004111-05	Water	4/14/2010 1:15:00PM	04/14/2010 17:00
SB14-R	X004111-06	Water	4/14/2010 2:40:00PM	04/14/2010 17:00

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

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

Matthew Harrison
Project Number: NEP0835
Project: Noble - Collins 14-20

www.originslaboratory.com

page 1 of 1

X004111

ORIGINS
LABORATORY, INC

Client: LT Environmental
Address: 4600 W 60th Arvada CO 80003
Telephone Number: 303-433-9788
Email Address: mharrison@ltenv.com

Project Manager: Matt Harrison
Project Name: Collins 14-20
Project Number: NEP0835
Samples Collected By: Danny Burns

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #			Other
SB08	4/14/10	12:55	2	X				X				1	
SB09		14:50	2	X				X				2	
SB11		14:20	2	X				X				3	
SB12		13:40	2	X				X				4	
SB13		13:15	2	X				X				5	
SB14-R		14:40	2	X				X				6	
												7	
												8	
												9	
												10	

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
D.B.	4/14/10	17:00	R.B.	4/14/10	17:00	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 Results Needed

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

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

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

Matthew Harrison
Project Number: NEP0835
Project: Noble - Collins 14-20

SB08

4/14/2010 12:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X004111-01 (Water)

BTEX by EPA 8260B

Benzene	ND	1.00	ug/L	1	OD15001	04/15/2010	04/15/2010
Toluene	ND	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
Xylenes, total	ND	1.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	104 %	73.5-130	"	"	"
Surrogate: Toluene-d8	95.7 %	79.3-113	"	"	"
Surrogate: 4-Bromofluorobenzene	98.2 %	81.5-117	"	"	"

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

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

Matthew Harrison
Project Number: NEP0835
Project: Noble - Collins 14-20

SB09

4/14/2010 2:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X004111-02 (Water)

BTEX by EPA 8260B

Benzene	ND	1.00	ug/L	1	OD15001	04/15/2010	04/15/2010
Toluene	ND	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
Xylenes, total	ND	1.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	105 %	73.5-130	"	"	"
Surrogate: Toluene-d8	94.7 %	79.3-113	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	81.5-117	"	"	"

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

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

Matthew Harrison
Project Number: NEP0835
Project: Noble - Collins 14-20

SB11

4/14/2010 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X004111-03 (Water)

BTEX by EPA 8260B

Benzene	ND	1.00	ug/L	1	OD15001	04/15/2010	04/15/2010	
Toluene	ND	1.00	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	
Xylenes, total	ND	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	73.5-130			"	"	"	
Surrogate: Toluene-d8	96.8 %	79.3-113			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	81.5-117			"	"	"	

Origins Laboratory, Inc.



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Noelle E Doyle, Laboratory Manager

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

Matthew Harrison
Project Number: NEP0835
Project: Noble - Collins 14-20

SB12**4/14/2010 1:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X004111-04 (Water)

BTEX by EPA 8260B

Benzene	ND	1.00	ug/L	1	OD15001	04/15/2010	04/15/2010
Toluene	ND	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
Xylenes, total	ND	1.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	102 %	73.5-130	"	"	"
Surrogate: Toluene-d8	94.3 %	79.3-113	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	81.5-117	"	"	"

Origins Laboratory, Inc.



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Noelle E Doyle, Laboratory Manager

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

Matthew Harrison
Project Number: NEP0835
Project: Noble - Collins 14-20

SB13

4/14/2010 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X004111-05 (Water)

BTEX by EPA 8260B

Benzene	ND	1.00	ug/L	1	OD15001	04/15/2010	04/15/2010	
Toluene	11.9	1.00	"	"	"	"	"	
Ethylbenzene	37.0	1.00	"	"	"	"	"	
Xylenes, total	280	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	73.5-130	"	"	"	"	"	
Surrogate: Toluene-d8	96.0 %	79.3-113	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.1 %	81.5-117	"	"	"	"	"	

Origins Laboratory, Inc.



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LT Environmental, Inc.
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Arvada CO 80003

Matthew Harrison
Project Number: NEP0835
Project: Noble - Collins 14-20

SB14-R**4/14/2010 2:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X004111-06 (Water)

BTEX by EPA 8260B

Benzene	ND	1.00	ug/L	1	OD15001	04/15/2010	04/15/2010
Toluene	ND	1.00	"	"	"	"	"
Ethylbenzene	ND	1.00	"	"	"	"	"
Xylenes, total	ND	1.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	103 %	73.5-130	"	"	"
Surrogate: Toluene-d8	95.5 %	79.3-113	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	81.5-117	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Matthew Harrison
Project Number: NEP0835
Project: Noble - Collins 14-20

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
Batch OD15001 - EPA 5030B										
Blank (OD15001-BLK1)					Prepared: 04/15/2010 Analyzed: 04/15/2010					
Benzene	ND	1.00	ug/L							
Toluene	ND	1.00	"							
Ethylbenzene	ND	1.00	"							
o-Xylene	ND	1.00	"							
m,p-Xylene	ND	2.00	"							
Surrogate: 1,2-Dichloroethane-d4	64.1		"	62.5		103	73.5-130			
Surrogate: Toluene-d8	60.0		"	62.5		96.0	79.3-113			
Surrogate: 4-Bromofluorobenzene	61.3		"	62.5		98.1	81.5-117			
LCS (OD15001-BS1)					Prepared: 04/15/2010 Analyzed: 04/15/2010					
Benzene	49.3	1.00	ug/L	50.0		98.6	77.3-128			
Toluene	49.8	1.00	"	50.0		99.5	81.7-118			
Surrogate: 1,2-Dichloroethane-d4	63.6		"	62.5		102	73.5-130			
Surrogate: Toluene-d8	62.5		"	62.5		100	79.3-113			
Surrogate: 4-Bromofluorobenzene	63.4		"	62.5		101	81.5-117			
Matrix Spike (OD15001-MS1)					Source: X004111-01	Prepared: 04/15/2010 Analyzed: 04/15/2010				
Benzene	48.0	1.00	ug/L	50.0	ND	96.1	74.5-132			
Toluene	47.7	1.00	"	50.0	ND	95.5	74.2-116			
Surrogate: 1,2-Dichloroethane-d4	62.8		"	62.5		100	73.5-130			
Surrogate: Toluene-d8	61.3		"	62.5		98.1	79.3-113			
Surrogate: 4-Bromofluorobenzene	64.2		"	62.5		103	81.5-117			
Matrix Spike Dup (OD15001-MSD1)					Source: X004111-01	Prepared: 04/15/2010 Analyzed: 04/15/2010				
Benzene	49.4	1.00	ug/L	50.0	ND	98.7	74.5-132	2.69	13.1	
Toluene	48.8	1.00	"	50.0	ND	97.5	74.2-116	2.13	21.2	
Surrogate: 1,2-Dichloroethane-d4	63.6		"	62.5		102	73.5-130			
Surrogate: Toluene-d8	60.6		"	62.5		96.9	79.3-113			
Surrogate: 4-Bromofluorobenzene	62.9		"	62.5		101	81.5-117			

Origins Laboratory, Inc.



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Noelle E Doyle, Laboratory Manager

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

Matthew Harrison
Project Number: NEP0835
Project: Noble - Collins 14-20

Notes and Definitions

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

Origins Laboratory, Inc.

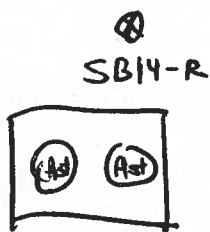


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Noelle E Doyle, Laboratory Manager

APPENDIX B
LITHOLOGIC WELL LOG

Well Location Sketch:



-2-



Compliance • Engineering • Remediation

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:

SB-14R

Project:

Collins 14-20

Date:

3/31/10

Project Number:

NEP0835

Logged By:

M. Harrison

Drilled By:

Alpine

Elevation:

Detector:

Drilling Method: Direct Push

Sampling Method:

Cont.

Gravel Pack:

10-20 Sand

Seal:

Bentonite Chips

Grout:

NA

Casing Type:

Sch 40 PUC

Diameter:

1"

Length:

10'

Hole Diameter:

2"

Depth to Liquid:

Screen Type:

Sch 40 PUC

Slot:

0.010"

Diameter:

1"

Length:

10'

Total Depth:

20'

Depth to Water:

Penetration Resistance	Moisture Content	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion Diagram
					0					
	Dry	Ø	NO		2					
		Ø	NO		4					
		Ø	NO		6					
		Ø	NO		8					
		Ø	NO		10					
	wet	Ø	NO		12					
		Ø	NO		14					
		Ø	NO		16					
		Ø	NO		18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					
					40					

Lithology consist of
small, gravel, and
silty, sand.

Backfill from previous
excavation.

MLL