

GROUNDWATER MONITORING REPORT JANUARY 2010

COLLINS 14-20 TANK BATTERY

On December 8, 2009, LT Environmental, Inc. (LTE) conducted groundwater sampling on behalf of Noble Energy, Inc., at the Collins 14-20 Tank Battery (Site). This sampling event constitutes the third post remediation monitoring event at this Site. Site history, assessment, and remediation activities have been described in preceding reports.

Groundwater level measurements were collected from the monitoring wells and are summarized in Table 1. Monitoring wells SB08 and SB09 were installed after excavation activities on October 27, 2008, and November 3, 2008, respectively. On February 12, 2009, monitoring wells SB11 and SB12 were installed, and on February 26, 2009, monitoring wells SB13 and SB14 were installed during injection and sampling activities. A Site map is present on Figure 1.

Depth to groundwater, which ranged from 18.59 feet below top of casing (btoc) in SB12 to 19.89 feet btoc in SB09, was used to calculate well-specific purge volumes. Following purging, samples were collected and submitted following strict chain of custody protocol to Origins Laboratory, Inc. (Origins) 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, presented in 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 14.3 micrograms per liter ($\mu\text{g/L}$) and a total xylenes concentration of 3,107 $\mu\text{g/L}$. 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.

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 March 2010.

TABLE

TABLE 1

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

| MONITORING | | DEPTH TO | | | | TOTAL |
|--------------------------|------------|-------------|-------------|------------|--------------|--------------|
| WELL | DATE | WATER | BENZENE | TOLUENE | ETHYLBENZENE | XYLENES |
| | | (feet btoc) | (ug/L) | (ug/L) | (ug/L) | (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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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

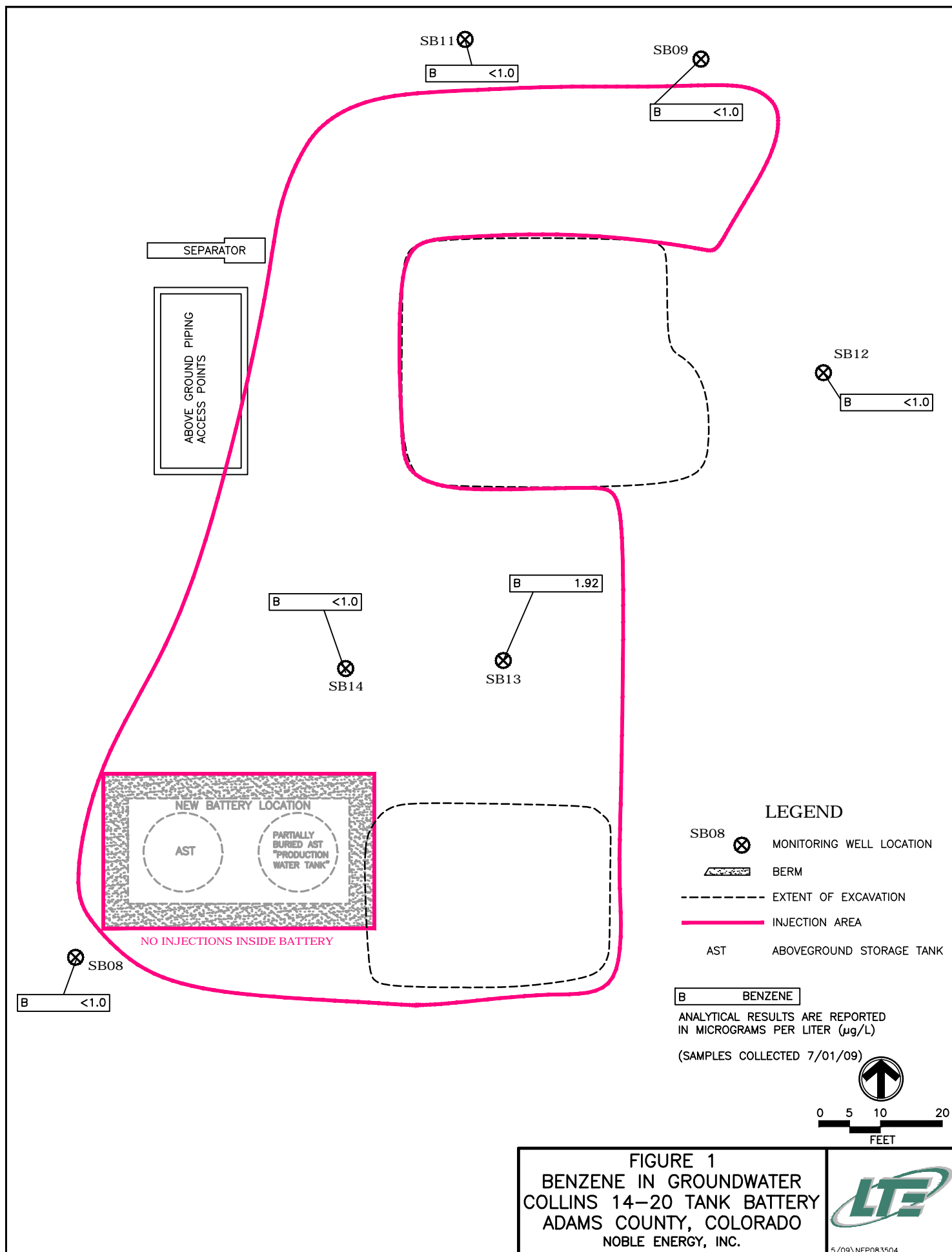
Bold - indicates concentration exceeds CDPHE WQCC Reg 41

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



APPENDIX
ANALYTICAL REPORT



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

December 15, 2009

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

Brian Dodek
Project Number: NEP0835
Project: Noble – Collins 14–20

Attached are the analytical results for Noble – Collins 14–20 received by Origins Laboratory, Inc. 12/8/2009 4:17:00PM. Please let us know if you have any questions, or if we can help with anything at all.

Laboratory Manager
Noelle E Doyle

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.

4640 Pecos Street | Unit C
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: NEP0835
Project: Noble – Collins 14–20

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Sampled | Date Received |
|-----------|---------------|--------|---------------------|------------------|
| SB08 | X912026-01 | Water | 12/8/2009 2:00:00PM | 12/08/2009 16:17 |
| SB09 | X912026-02 | Water | 12/8/2009 3:40:00PM | 12/08/2009 16:17 |
| SB11 | X912026-03 | Water | 12/8/2009 2:55:00PM | 12/08/2009 16:17 |
| SB12 | X912026-04 | Water | 12/8/2009 2:50:00PM | 12/08/2009 16:17 |
| SB13 | X912026-05 | Water | 12/8/2009 2:30:00PM | 12/08/2009 16:17 |
| SB14 | X912026-06 | Water | 12/8/2009 2:10:00PM | 12/08/2009 16:17 |

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

Project: Noble - Collins 14-20



X912026

page 1 of 1

originslaboratory.com

Client- LT Environmental
Address- 4600 W. 10th Ave.
Arvada CO 80003
Telephone Number- 303-433-9788
E-Mail Address- bhollek@ltenv.com

Project Manager- Brian Didak
Project Name- Collins 14-20
Project Number- NEP0835
Samples Collected by- Devin Gartin

| Sample ID - Description | Date Sampled | Time Sampled | Number of Containers | Preservative | | Matrix | | Analysis | | Sample Instructions |
|---|--------------|--------------|----------------------|--------------|-----|------------------|-------|-------------|------|---|
| | | | | Unpreserved | HCl | HNO ₃ | Other | Groundwater | Soil | |
| SB08 | 12/8/09 | 1400 | 3 | X | | | X | | X | <div> <div> <div></div> <div>lab filter samples!</div> </div> <div>Sample Instructions</div> </div> |
| SB09 | 1 | 1340 | 1 | X | | | X | | X | |
| SB11 | 1 | 1455 | 1 | X | | | X | | X | |
| SB12 | 1 | 1450 | 1 | X | | | X | | X | |
| SB13 | 1 | 1430 | 1 | X | | | X | | X | |
| SB14 | 1 | 1410 | 1 | X | | | X | | X | |
| <div> <div>Relinquished by: </div> <div> <div>Date: 12-8-09</div> <div>Time: 1617</div> </div> <div>Received by: </div> <div> <div>Date: 12-8-09</div> <div>Time: 1617</div> </div> </div> | | | | | | | | | | <div>Temperature Upon Receipt:</div> <div>Turn Around Time:</div> <div> <div>Same Day</div> <div>48-hr</div> <div>Standard</div> </div> <div> <div>24-hr</div> <div>72-hr</div> <div><input checked="" type="checkbox"/></div> </div> |

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

Origins Laboratory, Inc.

Markus

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Noelle E Doyle, Laboratory Manager

4640 Pecos Street | Unit C
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: NEP0835
Project: Noble – Collins 14-20

SB08

X912026-01 (Water)

12/8/2009 2:00:00PM

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

Origins Laboratory, Inc.

BTEX by EPA 8260B

| | | | | | | | | |
|--------------|----|---------|------|---|---------|------------|------------|--|
| Benzene | ND | 0.00100 | mg/L | 1 | 9L10001 | 12/10/2009 | 12/10/2009 | |
| Toluene | ND | 0.00100 | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00100 | " | " | " | " | " | |
| o-Xylene | ND | 0.00100 | " | " | " | " | " | |
| m,p-Xylene | ND | 0.00200 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|-------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 110 % | 76.8-127 | | | " | " | " | |
| Surrogate: Toluene-d8 | 103 % | 71.4-123 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 108 % | 87.6-133 | | | " | " | " | |

Origins Laboratory, Inc.

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4640 Pecos Street | Unit C
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: NEP0835
Project: Noble – Collins 14-20

SB09

X912026-02 (Water)

12/8/2009 3:40:00PM

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

Origins Laboratory, Inc.

BTEX by EPA 8260B

| | | | | | | | | |
|--------------|----|---------|------|---|---------|------------|------------|--|
| Benzene | ND | 0.00100 | mg/L | 1 | 9L10001 | 12/10/2009 | 12/10/2009 | |
| Toluene | ND | 0.00100 | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00100 | " | " | " | " | " | |
| o-Xylene | ND | 0.00100 | " | " | " | " | " | |
| m,p-Xylene | ND | 0.00200 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 108 % | 76.8-127 | | | " | " | " | |
| Surrogate: Toluene-d8 | 99.8 % | 71.4-123 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 103 % | 87.6-133 | | | " | " | " | |

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Denver, Colorado 80211
303.433.1322 | Laboratory
303.265.9645 | Fax



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Arvada CO 80003

Brian Dodek
Project Number: NEP0835
Project: Noble – Collins 14-20

SB11

X912026-03 (Water)

12/8/2009 2:55:00PM

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

Origins Laboratory, Inc.

BTEX by EPA 8260B

| | | | | | | | | |
|--------------|----|---------|------|---|---------|------------|------------|--|
| Benzene | ND | 0.00100 | mg/L | 1 | 9L10001 | 12/10/2009 | 12/10/2009 | |
| Toluene | ND | 0.00100 | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00100 | " | " | " | " | " | |
| o-Xylene | ND | 0.00100 | " | " | " | " | " | |
| m,p-Xylene | ND | 0.00200 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|--------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 105 % | 76.8-127 | | | " | " | " | |
| Surrogate: Toluene-d8 | 96.6 % | 71.4-123 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 98.7 % | 87.6-133 | | | " | " | " | |

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4640 Pecos Street | Unit C
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: NEP0835
Project: Noble – Collins 14-20

SB12

X912026-04 (Water)

12/8/2009 2:50:00PM

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

Origins Laboratory, Inc.

BTEX by EPA 8260B

| | | | | | | | | |
|--------------|----|---------|------|---|---------|------------|------------|--|
| Benzene | ND | 0.00100 | mg/L | 1 | 9L10001 | 12/10/2009 | 12/10/2009 | |
| Toluene | ND | 0.00100 | " | " | " | " | " | |
| Ethylbenzene | ND | 0.00100 | " | " | " | " | " | |
| o-Xylene | ND | 0.00100 | " | " | " | " | " | |
| m,p-Xylene | ND | 0.00200 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|-------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 106 % | 76.8-127 | | | " | " | " | |
| Surrogate: Toluene-d8 | 101 % | 71.4-123 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 100 % | 87.6-133 | | | " | " | " | |

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4640 Pecos Street | Unit C
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: NEP0835
Project: Noble – Collins 14-20

SB13

X912026-05 (Water)

12/8/2009 2:30:00PM

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

Origins Laboratory, Inc.

BTEX by EPA 8260B

| | | | | | | | | |
|--------------|---------------|---------|------|---|---------|------------|------------|--|
| Benzene | ND | 0.00100 | mg/L | 1 | 9L10001 | 12/10/2009 | 12/10/2009 | |
| Toluene | 0.0150 | 0.00100 | " | " | " | " | " | |
| Ethylbenzene | 0.0378 | 0.00100 | " | " | " | " | " | |
| o-Xylene | 0.0640 | 0.00100 | " | " | " | " | " | |
| m,p-Xylene | 0.320 | 0.00200 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|-------|----------|--|--|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 104 % | 76.8-127 | | | " | " | " | |
| Surrogate: Toluene-d8 | 101 % | 71.4-123 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 114 % | 87.6-133 | | | " | " | " | |

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Noelle E Doyle, Laboratory Manager

4640 Pecos Street | Unit C
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: NEP0835
Project: Noble – Collins 14-20

SB14

X912026-06 (Water)

12/8/2009 2:10:00PM

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

Origins Laboratory, Inc.

BTEX by EPA 8260B

| | | | | | | | | |
|--------------|---------------|---------|------|----|---------|------------|------------|--|
| Benzene | 0.0143 | 0.00100 | mg/L | 1 | 9L10001 | 12/10/2009 | 12/10/2009 | |
| Toluene | 0.388 | 0.0100 | " | 10 | " | " | 12/11/2009 | |
| Ethylbenzene | 0.298 | 0.0100 | " | " | " | " | " | |
| o-Xylene | 0.617 | 0.0100 | " | " | " | " | " | |
| m,p-Xylene | 2.49 | 0.0200 | " | " | " | " | " | |

| | | | | | | | | |
|----------------------------------|--------|----------|--|--|---|---|------------|--|
| Surrogate: 1,2-Dichloroethane-d4 | 100 % | 76.8-127 | | | " | " | 12/10/2009 | |
| Surrogate: Toluene-d8 | 96.2 % | 71.4-123 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 109 % | 87.6-133 | | | " | " | " | |

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Noelle E Doyle, Laboratory Manager

4640 Pecos Street | Unit C
 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: 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 9L10001 – EPA 5030B

Blank (9L10001–BLK1)

Prepared: 12/10/2009 Analyzed: 12/10/2009

| | | | | | | | | | | |
|----------------------------------|------|-------|------|------|--|------|----------|--|--|--|
| 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 | 68.4 | | ug/L | 62.5 | | 109 | 76.8-127 | | | |
| Surrogate: Toluene-d8 | 62.1 | | " | 62.5 | | 99.3 | 71.4-123 | | | |
| Surrogate: 4-Bromofluorobenzene | 64.0 | | " | 62.5 | | 102 | 87.6-133 | | | |

LCS (9L10001–BS1)

Prepared: 12/10/2009 Analyzed: 12/10/2009

| | | | | | | | | | | |
|----------------------------------|------|-------|------|--------|--|------|----------|--|--|--|
| Benzene | 0.05 | 0.001 | mg/L | 0.0500 | | 98.3 | 79.3-122 | | | |
| Toluene | 0.04 | 0.001 | " | 0.0500 | | 78.5 | 73.4-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 68.0 | | ug/L | 62.5 | | 109 | 76.8-127 | | | |
| Surrogate: Toluene-d8 | 58.2 | | " | 62.5 | | 93.2 | 71.4-123 | | | |
| Surrogate: 4-Bromofluorobenzene | 60.5 | | " | 62.5 | | 96.8 | 87.6-133 | | | |

Matrix Spike (9L10001–MS1)

Source: X912025-01

Prepared: 12/10/2009 Analyzed: 12/10/2009

| | | | | | | | | | | |
|----------------------------------|------|-------|------|--------|----|------|----------|--|--|--|
| Benzene | 0.05 | 0.001 | mg/L | 0.0500 | ND | 103 | 80.2-129 | | | |
| Toluene | 0.04 | 0.001 | " | 0.0500 | ND | 83.2 | 74.8-126 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 66.9 | | ug/L | 62.5 | | 107 | 76.8-127 | | | |
| Surrogate: Toluene-d8 | 59.7 | | " | 62.5 | | 95.5 | 71.4-123 | | | |
| Surrogate: 4-Bromofluorobenzene | 63.1 | | " | 62.5 | | 101 | 87.6-133 | | | |

Matrix Spike Dup (9L10001–MSD1)

Source: X912025-01

Prepared: 12/10/2009 Analyzed: 12/10/2009

| | | | | | | | | | | |
|----------------------------------|------|-------|------|--------|----|------|----------|------|------|--|
| Benzene | 0.05 | 0.001 | mg/L | 0.0500 | ND | 98.8 | 80.2-129 | 4.49 | 18.7 | |
| Toluene | 0.04 | 0.001 | " | 0.0500 | ND | 81.8 | 74.8-126 | 1.70 | 21.9 | |
| Surrogate: 1,2-Dichloroethane-d4 | 65.4 | | ug/L | 62.5 | | 105 | 76.8-127 | | | |
| Surrogate: Toluene-d8 | 59.5 | | " | 62.5 | | 95.1 | 71.4-123 | | | |
| Surrogate: 4-Bromofluorobenzene | 66.1 | | " | 62.5 | | 106 | 87.6-133 | | | |

Origins Laboratory, Inc.

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Noelle E Doyle, Laboratory Manager

4640 Pecos Street | Unit C
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: NEP0835
Project: Noble – Collins 14–20

Notes and Definitions

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

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Noelle E Doyle, Laboratory Manager