

**REMEDIATION SUMMARY REPORT**  
**PHILLIPS L30-6JI TANK BATTERY**  
**WELD COUNTY, COLORADO**

**AUGUST 2009**



# **REMEDIATION SUMMARY REPORT**

## **PHILLIPS L30-6JI TANK BATTERY WELD COUNTY, COLORADO**

**AUGUST 2009**

**Prepared for:**

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## EXECUTIVE SUMMARY

This report was prepared by LT Environmental, Inc. (LTE), on behalf of Noble Energy, Inc. (Noble), to document remediation activities at the Phillips L30-6JI Tank Battery (Site). Site assessment activities have been described in the previous report, *Environmental Site Assessment Results Phillips L30-6JI Tank Battery*, dated June 2009.

The Site is located 0.6 miles south of the intersection of Main Street and State Highway 66 in Platteville, Colorado. The legal description of the Site is the southeast quarter of the northwest quarter of Section 30, Township 3 North, Range 66 West of the Sixth Principal Meridian, in Weld County, Colorado (Figure 1). The Site is bordered to the east by United States Highway 85, to the west by Main Street, to the north by a residence, and to the south by pasture land.

The scope of work for this project included mitigation of petroleum hydrocarbon impacts following the identification of a tank release. This work consisted of the excavation/removal of hydrocarbon-impacted soils and groundwater, confirmation sampling and analysis, application of a groundwater amendment, documentation, and health and safety monitoring.

Noble contractors excavated impacted soil at the site from June 25, 2009 through July 2, 2009. Impacted soils were hauled offsite to the Noble Land Treatment Facility in Weld County, Colorado. The excavation was backfilled with clean fill from Varra Companies, Inc. of Greeley, Colorado. A total volume of 1,368 cubic yards of impacted soil were excavated and removed during this project. A total volume of 5,023 barrels (210,966 gallons) of impacted groundwater were removed from the excavation and transported to the Conquest Disposal Facility located in Weld County, Colorado.

Following the completion of source removal activities, a groundwater remediation amendment was installed in the base of the excavation to mitigate any residual hydrocarbons remaining from source removal activities. The amendment was also used in the construction of permeable reactive barrier installed downgradient of the gas separation equipment.

Based on field indicators and the analytical results of the wall confirmation samples collected following excavation activities, the remaining soil has been remediated to below the Colorado Oil and Gas Conservation Commission (COGCC) standards.

LTE is in the process of scheduling the sampling of performance groundwater monitoring wells, installed during the previously conducted site assessment, to determine if residual groundwater impacts exist at the Site. It is anticipated that the first quarterly monitoring event will be conducted in August 2009.

LTE, on behalf of Noble, will conduct quarterly monitoring with the goal of observing four consecutive quarters of analytical data in compliance with regulatory standards. When this goal is achieved, a No Further Action (NFA) request will be submitted to the COGCC.

## **SECTION 1.0**

### **INTRODUCTION**

This report was prepared by LT Environmental, Inc. (LTE) for Noble Energy, Inc. (Noble) to document excavation activities at the Phillips L30-6JI Tank Battery (Site). The purpose of this project was to remove hydrocarbon-impacted soils and groundwater from the Site.

#### **1.1 SITE DESCRIPTION**

The Site is located 0.6 miles south of the intersection of Main Street and State Highway 66 in Platteville, Colorado. The legal description of the Site is the southeast quarter of the northwest quarter of Section 30, Township 3 North, Range 66 West of the Sixth Principal Meridian, in Weld County, Colorado (Figure 1). The Site is bordered to the east by United States Highway 85, to the west by Main Street, to the north by a residence, and to the south by pasture land.

The Site geology was predominantly observed as clayey sand road-base that extended from the ground surface to approximately 1 - 2 feet below ground surface (bgs). Beneath the road-base is a well sorted, fine to coarse-grained, unconsolidated sand with trace gravel. Shallow groundwater at the Site is approximately 2 - 3 feet bgs.

The Site is located at an elevation of approximately 4,800 feet above mean sea level in an area with localized flat topography. Surface topography in the area is modified for agricultural and transportation corridor purposes.

#### **1.2 SCOPE OF WORK**

The scope of work for this remediation project included the removal of impacted soils and groundwater. Impacted soils were hauled offsite to the Noble Land Treatment Facility and replaced with clean fill from Varra Companies, Inc. (Varra) of Greeley, Colorado. Impacted groundwater was transported to Conquest Disposal (Conquest) located in Weld County, Colorado. A groundwater amendment (activated carbon remediation mixture) was installed in the base of the excavation to reduce the potential for groundwater impact resulting from residual hydrocarbons.

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

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

## SECTION 2.0

### SUMMARY OF FIELD ACTIVITIES

#### 2.1 EXCAVATION ACTIVITIES

##### 2.1.1 Impacted Soil Removal

Excavation activities were initiated on June 25, 2009. During the period from June 25, 2009 to July 2, 2009, Noble contractors removed impacted soils and groundwater. During remediation activities, evidence of impact to the subsurface was observed ranging in depth from 1 foot to 6 feet bgs. LTE personnel conducted field screening of organic vapor concentrations using a photoionization detector (PID) and collected confirmation soil samples to document excavation activities.

The final dimensions of the excavation were approximately 80 feet long by 60 feet wide, and the total depth of the excavation was approximately 6 feet. A total volume of 1,368 cubic yards of impacted soil were excavated and transported offsite to the Noble Land Treatment Facility located in Weld County, Colorado.

At the direction of Noble, exploratory potholes were excavated across the site to determine the extent of soil impacts emanating from the leaking aboveground storage tank. Soil samples were collected from all seven exploratory potholes (S01-S07).

Upon receipt of the analytical results from the exploratory potholes, Noble contractors initiated excavation within the confines of the exploratory potholes. Soil samples were also collected from the smear zone along the walls of the excavation. Each sample was 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 (S11 – S16). Soil samples S08 and S09 were not submitted to an analytical laboratory after PID screening indicated the samples were impacted. The area was excavated further and subsequent soil samples were collected and submitted to the analytical laboratory for analysis.

Floor samples were not collected from the excavation because the final excavation depth extended below the static water level. The potential for residual hydrocarbon impact below the water table in the excavation will be characterized through collection and analysis of groundwater samples to be presented in future monitoring reports.

Figure 2 presents the excavation extent, the location and analytical results from the soil samples collected in the excavation and exploratory potholes.

A total of 16 samples were collected from the exploratory potholes and excavation sidewalls. Of the 16 soil samples collected, 14 were submitted to Origins Laboratory, Inc. (Origins) of Denver, Colorado. Soil samples were submitted for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by Environmental Protection Agency

(EPA) Method 8260B, as well as total volatile hydrocarbons - gasoline range organics (TVH-GRO) and total extractable hydrocarbons – diesel range organics (TEH-DRO) by EPA Modified Method 8015. The remaining two sample locations exhibited impacts during field screening and were over-excavated. Subsequent samples were collected and submitted to Origins.

After field screening indicated the impacted soils had been removed, the excavation was backfilled with clean fill provided by Varra.

### **2.1.2 Impacted Groundwater Removal**

During excavation activities, 5,023 barrels (210,966 gallons) of groundwater were removed from the excavation. Groundwater was removed by a Northern Plains Transport truck, with final disposal at Conquest.

## **2.2 GROUNDWATER AMENDMENT APPLICATION**

Groundwater was observed at the Site at approximately 2 feet bgs. To reduce the potential for any further groundwater impact resulting from residual hydrocarbons, a groundwater amendment was applied to the entire base of the excavation after field indicators and confirmation sample analytical results demonstrated the impacted soils were removed.

The groundwater remediation amendment used in the excavation was comprised of activated carbon inoculated with electron acceptors (nitrate and sulfate) and nutrients (phosphorus and nitrogen) designed to biodegrade petroleum hydrocarbons. Approximately 700 pounds of the groundwater amendment were applied to the base of the excavation.

To further aid the natural attenuation process and prevent migration of impacted groundwater outside the boundary of the excavation, LTE installed a permeable reactive barrier (PRB) downgradient of the excavation. A trench was excavated north of the oil and gas separation equipment, which is downgradient of the excavation and dumphine corridor. Dimensions of the PRB are approximately 4 feet wide by 20 feet long by 6 feet deep. The trench was backfilled with a mixture of native soil and groundwater amendment. The PRB will intercept impacted groundwater and remediate the hydrocarbon compounds as the groundwater continues to flow downgradient. A total of 100 pounds of the groundwater amendment was mixed into the PRB from the smear zone to the total depth of the PRB.

## **SECTION 3.0**

### **ANALYTICAL RESULTS**

Soil samples were collected to define the extent of the excavation and confirm that impact above regulatory standards was removed. Confirmation soil samples were collected from exploratory potholes and the smear zone along the walls of the excavation. Soil sample locations and analytical results are illustrated on Figure 2. Soil samples were sent to Origins for analysis of BTEX using EPA Method 8260B, as well as TVH-GRO and TEH-DRO using EPA Modified Method 8015.

Analytical results indicate BTEX, TVH-GRO, and TEH-DRO were not detected above COGCC standards in all samples collected from the exploratory potholes or the excavation sidewalls except sample location S10. Soil sample S10 exhibited a benzene concentration of 0.178 milligrams per kilogram (mg/kg), which exceeds the COGCC standard of 0.17 mg/kg. The excavation was extended beyond soil sample S10 to remove the documented impacted soils. A subsequent soil sample (S16) indicated that all impacted soil had been removed.

Soil sample analytical results are summarized in Table 1. Copies of the laboratory analytical reports are included in the Appendix.



## **SECTION 4.0**

### **SUMMARY AND CONCLUSIONS**

From June 25, 2009 to July 2, 2009, Noble excavated and removed 1,368 cubic yards of impacted soil and 5,023 barrels (210,966 gallons) of impacted groundwater from the excavation at the Site.

During remediation activities, evidence of impact to the subsurface, in the form of staining and odor, was observed ranging in depth from 1 foot to 6 feet bgs. LTE conducted field-screening of organic vapor concentrations and collection of soil confirmation samples for laboratory analysis from the excavated area.

Impacted soils were excavated and transported to the Noble Land Treatment Facility. Clean fill material was brought from Varra for use as backfill in the excavation. Impacted groundwater removed from the excavation was transported by Northern Plains Transport for final disposal at Conquest.

LTE collected confirmation soil samples during soil excavation activities. Analytical results from soil samples collected from exploratory potholes and the smear zone along the walls of the excavation indicated that the petroleum impacted soils had been removed to below the COGCC Standards.

To prevent any future impact from residual hydrocarbons in the northern excavation, 700 pounds of a hydrocarbon degrading amendment were applied to the base of the excavation. LTE also installed a PRB downgradient of the excavation to intercept and remediate impacted groundwater outside the excavation boundary. A total of 100 pounds of a groundwater amendment was mixed with native soil and used to construct the PRB.

LTE is in the process of conducting post-excavation groundwater monitoring activities at the Site. LTE will use monitoring wells installed during site assessment activities (May 2009) to conduct post-remediation sampling. A summary of the monitoring well sampling activities and groundwater analytical results will be included with the first quarterly groundwater monitoring report to be submitted under separate cover.

## TABLE

**TABLE 1**

**SOIL ANALYTICAL RESULTS**  
**PHILLIPS L 30-6JI TANK BATTERY**  
**WELD COUNTY, COLORADO**  
**NOBLE ENERGY, INC.**

| Sample ID<br>(Depth in feet) | Date Sampled | Benzene<br>(mg/kg) | Toluene<br>(mg/kg) | Ethylbenzene<br>(mg/kg) | Total Xylenes<br>(mg/kg) | TVH-GRO<br>(mg/kg)     | TVH-DRO<br>(mg/kg) |
|------------------------------|--------------|--------------------|--------------------|-------------------------|--------------------------|------------------------|--------------------|
| S01 (2')                     | 6/24/2009    | <0.00400           | <0.00400           | <0.00400                | <0.01200                 | <50                    | <50                |
| S02 (2')                     | 6/24/2009    | <0.00400           | <0.00400           | <0.00400                | <0.01200                 | <50                    | <50                |
| S03 (2')                     | 6/24/2009    | <0.00400           | <0.00400           | <0.00400                | <0.01200                 | <50                    | <50                |
| S04 (2')                     | 6/24/2009    | <0.00400           | <0.00400           | <0.00400                | <0.01200                 | <50                    | <50                |
| S05 (2')                     | 6/24/2009    | <0.00400           | <0.00400           | <0.00400                | <0.01200                 | <50                    | <50                |
| S06 (2')                     | 6/24/2009    | <0.00400           | <0.00400           | <0.00400                | <0.01200                 | <50                    | <50                |
| S07 (2')                     | 6/24/2009    | <0.00400           | <0.00400           | <0.00400                | <0.01200                 | <50                    | <50                |
| S10 (2')                     | 7/1/2009     | <b>0.178</b>       | 0.0420             | <0.00400                | 0.2353                   | <50                    | <50                |
| S11 (2')                     | 7/1/2009     | 0.109              | 0.0689             | <0.00400                | 0.2824                   | <50                    | <50                |
| S12 (2')                     | 7/1/2009     | 0.122              | 0.0283             | <0.00400                | 0.4137                   | <50                    | <50                |
| S13 (2')                     | 7/2/2009     | <0.00400           | <0.00400           | <0.00400                | <0.01200                 | <50                    | <50                |
| S14 (2')                     | 7/2/2009     | <0.00400           | <0.00400           | <0.00400                | <0.01200                 | <50                    | <50                |
| S15 (2')                     | 7/2/2009     | <0.00400           | <0.00400           | <0.00400                | <0.01200                 | <50                    | <50                |
| S16 (2.5')                   | 7/2/2009     | <0.00400           | <0.00400           | <0.00400                | <0.01200                 | <50                    | <50                |
| <b>COGCC Standard</b>        |              | <b>0.17</b>        | <b>85</b>          | <b>100</b>              | <b>175</b>               | <b>Combined to 500</b> |                    |

**Notes:**

mg/kg - milligrams per kilogram

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

TVH-GRO - Total Volatile Hydrocarbons - Gasoline Range Organics

TEH-DRO - Total Extractable Hydrocarbons - Diesel Range Organics

COGCC - Colorado Oil & Gas Conservation Commission

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

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

**Bold** - indicates result exceeds COGCC standard.



## FIGURES

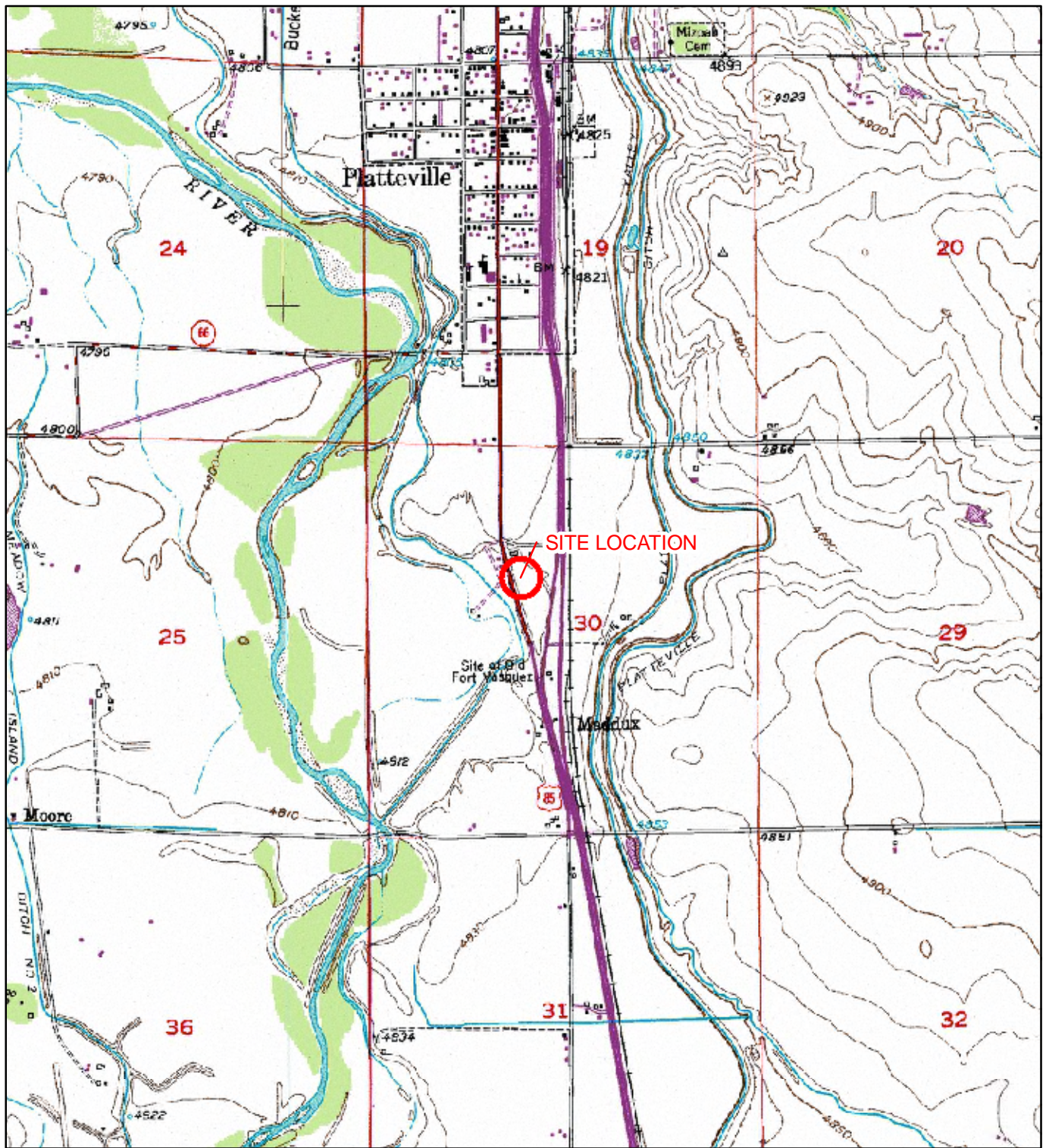



IMAGE COURTESY OF USDA/NRCS, VARIOUS DATES

# LEGEND

 SITE LOCATION

0 2,000  
Feet



**FIGURE 1**  
**SITE LOCATION MAP**  
**PHILLIPS L30-6JI TANK BATTERY**  
**SEC30 - 3N - 66W**  
**WELD COUNTY, COLORADO**  
**NOBLE ENERGY, INC.**





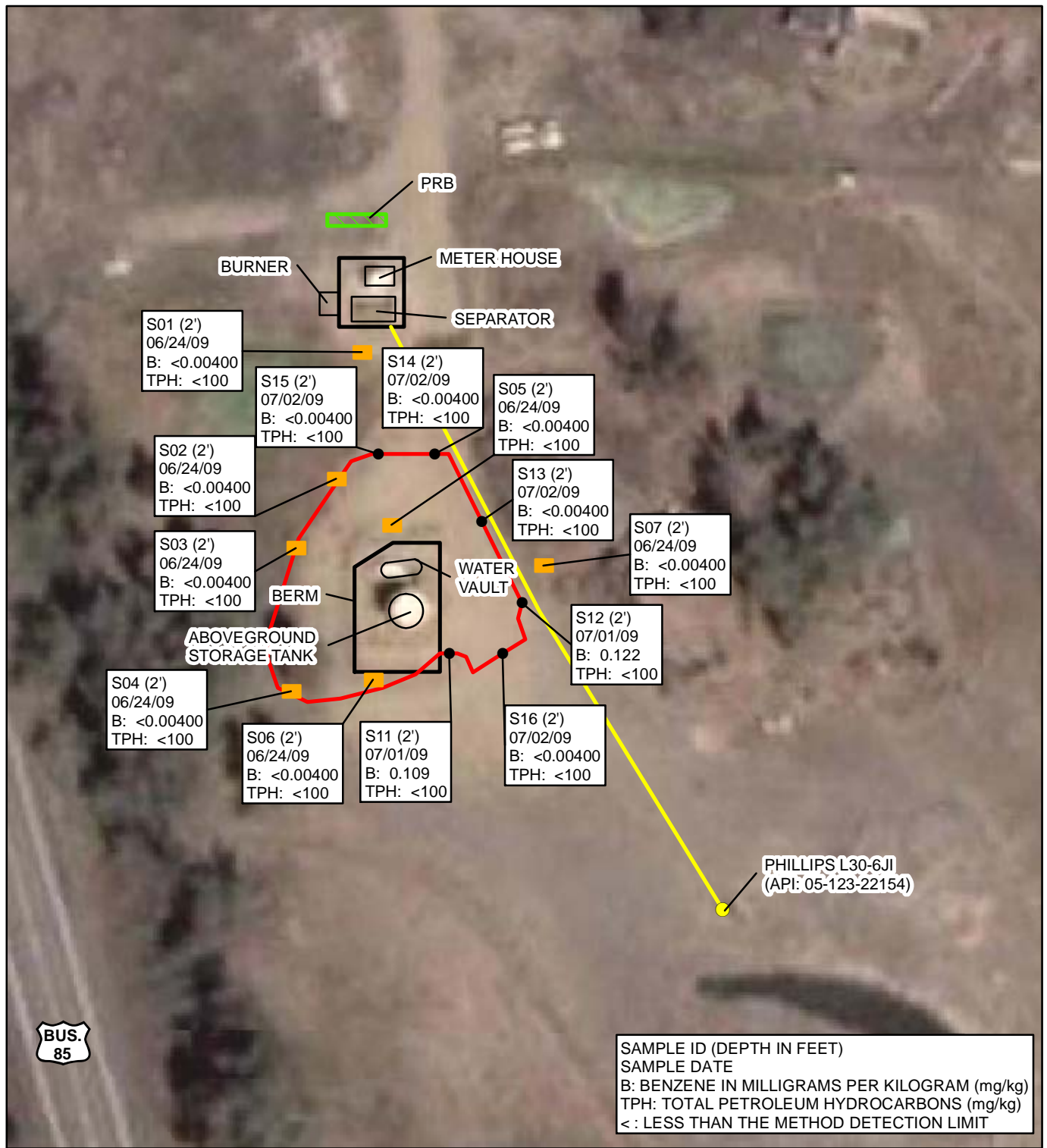
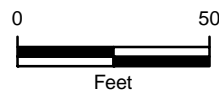


IMAGE COURTESY OF GOOGLE EARTH, 2009

## LEGEND

- EXPLORATORY POTHOLE SAMPLE LOCATION
- EXPLORATORY SOIL SAMPLE LOCATION
- PRODUCTION WELLHEAD
- GAS FLOWLINE
- BERM
- PERMEABLE REACTIVE BARRIER (PRB)
- EXCAVATION EXTENT



**FIGURE 2**  
**SOIL ANALYTICAL MAP**  
**PHILLIPS L30-6JI TANK BATTERY**  
**SEC30 - 3N - 66W**  
**WELD COUNTY, COLORADO**  
**NOBLE ENERGY, INC.**



**APPENDIX**  
**LABORATORY ANALYTICAL REPORTS**



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August 05, 2009

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

Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6JI

---

Attached are the analytical results for Noble – Phillips L30-6JI received by Origins Laboratory, Inc. 6/25/2009 11:58:00AM. 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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Project Number: NEP0909  
Project: Noble – Phillips L30-6JI

#### CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Sampled              | Date Received    |
|-----------|---------------|--------|----------------------|------------------|
| S01 (2')  | X906094-01    | Soil   | 6/24/2009 11:10:00AM | 06/25/2009 11:58 |
| S02 (2')  | X906094-02    | Soil   | 6/24/2009 11:15:00AM | 06/25/2009 11:58 |
| S03 (2')  | X906094-03    | Soil   | 6/24/2009 11:20:00AM | 06/25/2009 11:58 |
| S04 (2')  | X906094-04    | Soil   | 6/24/2009 11:25:00AM | 06/25/2009 11:58 |
| S05 (2')  | X906094-05    | Soil   | 6/24/2009 11:30:00AM | 06/25/2009 11:58 |
| S06 (2')  | X906094-06    | Soil   | 6/24/2009 11:35:00AM | 06/25/2009 11:58 |
| S07 (2')  | X906094-07    | Soil   | 6/24/2009 11:40:00AM | 06/25/2009 11:58 |

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  
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Brian Dodek  
Project Number: NEP0909  
Project: Noble - Phillips L30-6J1

3906094  
page 1 of 1



originslaboratory.com  
Client: LTE  
Address: LT  
Telephone Number: OUT/LE  
E-Mail Address: TE  
Project Manager: BDD  
Project Name: Phillips L30-6J1  
Project Number: NEP0909  
Samples Collected by: TE

| Sample ID - Description | Date Sampled | Time Sampled | Number of Containers | Preservative |     |                  |             | Matrix      |      | Analysis               |         | Sample Instructions |
|-------------------------|--------------|--------------|----------------------|--------------|-----|------------------|-------------|-------------|------|------------------------|---------|---------------------|
|                         |              |              |                      | Unpreserved  | HCl | HNO <sub>3</sub> | Other - Ice | Groundwater | Soil | Air - Summa Canister # | Other - |                     |
| S01 (2')                | 6/24/09      | 1110         | 1                    | X            |     |                  |             |             |      |                        |         | 1                   |
| S02 (2')                |              | 1115         |                      |              |     |                  |             |             |      |                        |         | 2                   |
| S03 (2')                |              | 1120         |                      |              |     |                  |             |             |      |                        |         | 3                   |
| S04 (2')                |              | 1125         |                      |              |     |                  |             |             |      |                        |         | 4                   |
| S05 (2')                |              | 1130         |                      |              |     |                  |             |             |      |                        |         | 5                   |
| S06 (2')                |              | 1135         |                      |              |     |                  |             |             |      |                        |         | 6                   |
| S07 (2')                |              | 1140         |                      |              |     |                  |             |             |      |                        |         | 7                   |
| S08 (2')                |              | 1145         |                      |              |     |                  |             |             |      |                        |         | 8                   |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 9                   |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 10                  |
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|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 66                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 67                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 68                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 69                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 70                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 71                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 72                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 73                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 74                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 75                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 76                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 77                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 78                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 79                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 80                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 81                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 82                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 83                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 84                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 85                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 86                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 87                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 88                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 89                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 90                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 91                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 92                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 93                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 94                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 95                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 96                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 97                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 98                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 99                  |
|                         |              |              |                      |              |     |                  |             |             |      |                        |         | 100                 |

Relinquished by: [Signature] Date: 6/24/09 Time: 1158  
Relinquished by: [Signature] Date: 6/24/09 Time: 1158  
Received by: [Signature] Date: 6/24/09 Time: 1158  
Received by: [Signature] Date: 6/24/09 Time: 1158  
Turn Around Time: 24-hr 48-hr 72-hr  
Temperature Upon Receipt: (720) 880-8107  
Sample Instructions: Please call Tim w/ all results

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

Origins Laboratory, Inc.

[Signature]

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

Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6Jl

S01 (2')

X906094-01 (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 | 9F25001 | 06/25/2009 | 06/25/2009 |
| Toluene      | ND | 0.00400 | "     | " | "       | "          | "          |
| Ethylbenzene | ND | 0.00400 | "     | " | "       | "          | "          |
| o-Xylene     | ND | 0.00400 | "     | " | "       | "          | "          |
| m,p-Xylene   | ND | 0.00800 | "     | " | "       | "          | "          |

|                                  |        |          |   |   |   |
|----------------------------------|--------|----------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 86.2 % | 77.6-134 | " | " | " |
| Surrogate: Toluene-d8            | 110 %  | 81.4-121 | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 104 %  | 74.7-123 | " | " | " |

GRO/DRO by EPA 8015M

|                   |    |      |       |   |         |            |            |
|-------------------|----|------|-------|---|---------|------------|------------|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | 9F25002 | 06/25/2009 | 06/25/2009 |
| Diesel (C10-C28)  | ND | 50.0 | "     | " | "       | "          | "          |

|                        |        |        |   |   |   |
|------------------------|--------|--------|---|---|---|
| Surrogate: o-Terphenyl | 89.6 % | 65-140 | " | " | " |
|------------------------|--------|--------|---|---|---|

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Noelle E Doyle, Laboratory Manager

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

Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6Jl

S02 (2')

X906094-02 (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 | 9F25001 | 06/25/2009 | 06/25/2009 |
| Toluene      | ND | 0.00400 | "     | " | "       | "          | "          |
| Ethylbenzene | ND | 0.00400 | "     | " | "       | "          | "          |
| o-Xylene     | ND | 0.00400 | "     | " | "       | "          | "          |
| m,p-Xylene   | ND | 0.00800 | "     | " | "       | "          | "          |

|                                  |        |          |   |   |   |
|----------------------------------|--------|----------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 85.4 % | 77.6-134 | " | " | " |
| Surrogate: Toluene-d8            | 111 %  | 81.4-121 | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 101 %  | 74.7-123 | " | " | " |

GRO/DRO by EPA 8015M

|                   |    |      |       |   |         |            |            |
|-------------------|----|------|-------|---|---------|------------|------------|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | 9F25002 | 06/25/2009 | 06/25/2009 |
| Diesel (C10-C28)  | ND | 50.0 | "     | " | "       | "          | "          |

|                        |        |        |   |   |   |
|------------------------|--------|--------|---|---|---|
| Surrogate: o-Terphenyl | 89.1 % | 65-140 | " | " | " |
|------------------------|--------|--------|---|---|---|

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Arvada CO 80003

Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6Jl

**S03 (2')**

**X906094-03 (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 | 9F25001 | 06/25/2009 | 06/25/2009 |
| Toluene      | ND | 0.00400 | "     | " | "       | "          | "          |
| Ethylbenzene | ND | 0.00400 | "     | " | "       | "          | "          |
| o-Xylene     | ND | 0.00400 | "     | " | "       | "          | "          |
| m,p-Xylene   | ND | 0.00800 | "     | " | "       | "          | "          |

|                                  |        |          |  |  |   |   |   |
|----------------------------------|--------|----------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 85.1 % | 77.6-134 |  |  | " | " | " |
| Surrogate: Toluene-d8            | 111 %  | 81.4-121 |  |  | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 105 %  | 74.7-123 |  |  | " | " | " |

**GRO/DRO by EPA 8015M**

|                   |    |      |       |   |         |            |            |
|-------------------|----|------|-------|---|---------|------------|------------|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | 9F25002 | 06/25/2009 | 06/25/2009 |
| Diesel (C10-C28)  | ND | 50.0 | "     | " | "       | "          | "          |

|                        |        |        |  |  |   |   |   |
|------------------------|--------|--------|--|--|---|---|---|
| Surrogate: o-Terphenyl | 90.1 % | 65-140 |  |  | " | " | " |
|------------------------|--------|--------|--|--|---|---|---|

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4600 West 60th Avenue  
Arvada CO 80003

Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6Jl

**S04 (2')**

**X906094-04 (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 | 9F25001 | 06/25/2009 | 06/25/2009 |
| Toluene      | ND | 0.00400 | "     | " | "       | "          | "          |
| Ethylbenzene | ND | 0.00400 | "     | " | "       | "          | "          |
| o-Xylene     | ND | 0.00400 | "     | " | "       | "          | "          |
| m,p-Xylene   | ND | 0.00800 | "     | " | "       | "          | "          |

|                                  |        |          |   |   |   |
|----------------------------------|--------|----------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 84.8 % | 77.6-134 | " | " | " |
| Surrogate: Toluene-d8            | 110 %  | 81.4-121 | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 103 %  | 74.7-123 | " | " | " |

**GRO/DRO by EPA 8015M**

|                   |    |      |       |   |         |            |            |
|-------------------|----|------|-------|---|---------|------------|------------|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | 9F25002 | 06/25/2009 | 06/25/2009 |
| Diesel (C10-C28)  | ND | 50.0 | "     | " | "       | "          | "          |

|                        |        |        |   |   |   |
|------------------------|--------|--------|---|---|---|
| Surrogate: o-Terphenyl | 94.5 % | 65-140 | " | " | " |
|------------------------|--------|--------|---|---|---|

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Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6Jl

S05 (2')  
X906094-05 (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 | 9F25001 | 06/25/2009 | 06/25/2009 |
| Toluene      | ND | 0.00400 | "     | " | "       | "          | "          |
| Ethylbenzene | ND | 0.00400 | "     | " | "       | "          | "          |
| o-Xylene     | ND | 0.00400 | "     | " | "       | "          | "          |
| m,p-Xylene   | ND | 0.00800 | "     | " | "       | "          | "          |

|                                  |        |          |   |   |   |
|----------------------------------|--------|----------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 87.0 % | 77.6-134 | " | " | " |
| Surrogate: Toluene-d8            | 105 %  | 81.4-121 | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 99.6 % | 74.7-123 | " | " | " |

GRO/DRO by EPA 8015M

|                   |    |      |       |   |         |            |            |
|-------------------|----|------|-------|---|---------|------------|------------|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | 9F25002 | 06/25/2009 | 06/25/2009 |
| Diesel (C10-C28)  | ND | 50.0 | "     | " | "       | "          | "          |

|                        |        |        |   |   |   |
|------------------------|--------|--------|---|---|---|
| Surrogate: o-Terphenyl | 94.4 % | 65-140 | " | " | " |
|------------------------|--------|--------|---|---|---|

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Arvada CO 80003

Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6Jl

S06 (2')

X906094-06 (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 | 9F25001 | 06/25/2009 | 06/25/2009 |
| Toluene      | ND | 0.00400 | "     | " | "       | "          | "          |
| Ethylbenzene | ND | 0.00400 | "     | " | "       | "          | "          |
| o-Xylene     | ND | 0.00400 | "     | " | "       | "          | "          |
| m,p-Xylene   | ND | 0.00800 | "     | " | "       | "          | "          |

|                                  |        |          |   |   |   |
|----------------------------------|--------|----------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 91.6 % | 77.6-134 | " | " | " |
| Surrogate: Toluene-d8            | 106 %  | 81.4-121 | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 95.5 % | 74.7-123 | " | " | " |

GRO/DRO by EPA 8015M

|                   |    |      |       |   |         |            |            |
|-------------------|----|------|-------|---|---------|------------|------------|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | 9F25002 | 06/25/2009 | 06/25/2009 |
| Diesel (C10-C28)  | ND | 50.0 | "     | " | "       | "          | "          |

|                        |        |        |   |   |   |
|------------------------|--------|--------|---|---|---|
| Surrogate: o-Terphenyl | 96.9 % | 65-140 | " | " | " |
|------------------------|--------|--------|---|---|---|

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Arvada CO 80003

Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6Jl

S07 (2')

X906094-07 (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 | 9F25001 | 06/25/2009 | 06/25/2009 |
| Toluene      | ND | 0.00400 | "     | " | "       | "          | "          |
| Ethylbenzene | ND | 0.00400 | "     | " | "       | "          | "          |
| o-Xylene     | ND | 0.00400 | "     | " | "       | "          | "          |
| m,p-Xylene   | ND | 0.00800 | "     | " | "       | "          | "          |

|                                  |        |          |   |   |   |
|----------------------------------|--------|----------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 90.5 % | 77.6-134 | " | " | " |
| Surrogate: Toluene-d8            | 105 %  | 81.4-121 | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 94.0 % | 74.7-123 | " | " | " |

GRO/DRO by EPA 8015M

|                   |    |      |       |   |         |            |            |
|-------------------|----|------|-------|---|---------|------------|------------|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | 9F25002 | 06/25/2009 | 06/25/2009 |
| Diesel (C10-C28)  | ND | 50.0 | "     | " | "       | "          | "          |

|                        |        |        |   |   |   |
|------------------------|--------|--------|---|---|---|
| Surrogate: o-Terphenyl | 92.1 % | 65-140 | " | " | " |
|------------------------|--------|--------|---|---|---|

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

Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6Jl

**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 |
|---|--------|-----------------|-------|-------------|---|------|-------------|-------|-----------|-------|
| <b>Batch 9F25002 – Default Prep GC-Semi</b> |        |                 |       |             |   |      |             |       |           |       |
| <b>Blank (9F25002-BLK1)</b>                 |        |                 |       |             | Prepared: 06/25/2009 Analyzed: 06/25/2009 |      |             |       |           |       |
| Gasoline (C6-C10)                           | ND     | 50.0            | mg/kg |             |   |      |             |       |           |       |
| Diesel (C10-C28)                            | ND     | 50.0            | "     |             |   |      |             |       |           |       |
| Surrogate: o-Terphenyl                      | 46.9   |                 | g     | 50.0        |   | 93.8 | 65-140      |       |           |       |
| <b>LCS (9F25002-BS1)</b>                    |        |                 |       |             | Prepared: 06/25/2009 Analyzed: 06/25/2009 |      |             |       |           |       |
| Gasoline (C6-C10)                           | 685    | 50.0            | mg/kg | 500         |   | 137  | 65-140      |       |           |       |
| Diesel (C10-C28)                            | 66.7   | 50.0            | "     |             |   |      | 60-140      |       |           |       |
| Surrogate: o-Terphenyl                      | 46.4   |                 | g     | 50.0        |   | 92.9 | 65-140      |       |           |       |
| <b>LCS Dup (9F25002-BSD1)</b>               |        |                 |       |             | Prepared: 06/25/2009 Analyzed: 06/25/2009 |      |             |       |           |       |
| Gasoline (C6-C10)                           | 677    | 50.0            | mg/kg | 500         |   | 135  | 65-140      | 1.15  | 25        |       |
| Diesel (C10-C28)                            | 67.2   | 50.0            | "     |             |   |      | 60-140      | 0.741 | 25        |       |
| Surrogate: o-Terphenyl                      | 44.6   |                 | g     | 50.0        |   | 89.2 | 65-140      |       |           |       |

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Arvada CO 80003

Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6Jl

**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 9F25001 – EPA 5030B**

**Blank (9F25001–BLK1)**

Prepared: 06/25/2009 Analyzed: 06/25/2009

|              |    |       |       |
|--------------|----|-------|-------|
| 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 | 58.7 | ug/L | 62.5 | 94.0 | 77.6–134 |
| Surrogate: Toluene-d8            | 65.6 | "    | 62.5 | 105  | 81.4–121 |
| Surrogate: 4-Bromofluorobenzene  | 61.4 | "    | 62.5 | 98.3 | 74.7–123 |

**LCS (9F25001–BS1)**

Prepared: 06/25/2009 Analyzed: 06/25/2009

|                                  |      |       |       |       |      |          |
|----------------------------------|------|-------|-------|-------|------|----------|
| Benzene                          | 0.17 | 0.004 | mg/kg | 0.200 | 84.0 | 81.7–142 |
| Toluene                          | 0.16 | 0.004 | "     | 0.200 | 78.2 | 72.2–134 |
| Surrogate: 1,2-Dichloroethane-d4 | 57.6 |       | ug/L  | 62.5  | 92.2 | 77.6–134 |
| Surrogate: Toluene-d8            | 65.0 |       | "     | 62.5  | 104  | 81.4–121 |
| Surrogate: 4-Bromofluorobenzene  | 58.2 |       | "     | 62.5  | 93.1 | 74.7–123 |

**LCS Dup (9F25001–BSD1)**

Prepared: 06/25/2009 Analyzed: 06/25/2009

|                                  |      |       |       |       |      |          |      |     |      |
|----------------------------------|------|-------|-------|-------|------|----------|------|-----|------|
| Benzene                          | 0.16 | 0.004 | mg/kg | 0.200 | 79.7 | 81.7–142 | 5.33 | 200 | S–GC |
| Toluene                          | 0.14 | 0.004 | "     | 0.200 | 68.0 | 72.2–134 | 14.0 | 200 | S–GC |
| Surrogate: 1,2-Dichloroethane-d4 | 59.2 |       | ug/L  | 62.5  | 94.7 | 77.6–134 |      |     |      |
| Surrogate: Toluene-d8            | 64.7 |       | "     | 62.5  | 104  | 81.4–121 |      |     |      |
| Surrogate: 4-Bromofluorobenzene  | 60.3 |       | "     | 62.5  | 96.4 | 74.7–123 |      |     |      |

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Noelle E Doyle, Laboratory Manager

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

Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6Jl

### Notes and Definitions

|      |   |
|------|---|
| S-GC | Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate. |
| ND   | Analyte NOT DETECTED at or above the reporting limit  |
| RPD  | Relative Percent Difference   |

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---

July 03, 2009

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

Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6JI

---

Attached are the analytical results for Noble – Phillips L30-6JI received by Origins Laboratory, Inc. 7/1/2009 3:41:00PM. 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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4600 West 60th Avenue  
Arvada CO 80003

Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6JI

#### CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Sampled             | Date Received    |
|-----------|---------------|--------|---------------------|------------------|
| S10       | X907008-01    | Soil   | 7/1/2009 11:20:00AM | 07/01/2009 15:41 |
| S11       | X907008-02    | Soil   | 7/1/2009 12:15:00PM | 07/01/2009 15:41 |
| S12       | X907008-03    | Soil   | 7/1/2009 12:40:00PM | 07/01/2009 15:41 |

Origins Laboratory, Inc.

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Noelle E Doyle, Laboratory Manager

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

Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6J1

8007016X  
page 1 of 1



originslaboratory.com  
Client- LT  
Address- 4600 W 60th Ave  
Telephone Number- 313 433 9788  
E-Mail Address- bddodek@ltenvi.com  
Project Manager- Brian Dodek  
Project Name- Phillips L30-6J1  
Project Number- NEP0909  
Samples Collected by- MJH

| Sample ID - Description | Date Sampled | Time Sampled | Number of Containers | Preservative |     |                  |                    | Matrix      |      |                        | Analysis                          | Sample Instructions |
|-------------------------|--------------|--------------|----------------------|--------------|-----|------------------|--------------------|-------------|------|------------------------|-----------------------------------|---------------------|
|                         |              |              |                      | Unpreserved  | HCl | HNO <sub>3</sub> | Other - <u>ICE</u> | Groundwater | Soil | Air - Summa Canister # |                                   |                     |
| S10                     | 7-1-09       | 1200         | 1                    | X            |     |                  | X                  |             |      |                        | BTEX 2260<br>DEO 2015<br>GEO 2015 | 1                   |
| S11                     | ↓            | 1205         | 1                    | X            |     |                  | X                  |             |      |                        | X                                 | 2                   |
| S12                     |              | 1240         | 1                    | X            |     |                  | X                  |             |      |                        | X                                 | 3                   |
|                         |              |              |                      |              |     |                  |                    |             |      |                        | X                                 | 4                   |
|                         |              |              |                      |              |     |                  |                    |             |      |                        | X                                 | 5                   |
|                         |              |              |                      |              |     |                  |                    |             |      |                        | X                                 | 6                   |
|                         |              |              |                      |              |     |                  |                    |             |      |                        | X                                 | 7                   |
|                         |              |              |                      |              |     |                  |                    |             |      |                        | X                                 | 8                   |
|                         |              |              |                      |              |     |                  |                    |             |      |                        | X                                 | 9                   |
|                         |              |              |                      |              |     |                  |                    |             |      |                        | X                                 | 10                  |

| Relinquished by:   | Date   | Time | Received by:       | Date   | Time  | Temperature Upon Receipt:  |
|--------------------|--------|------|--------------------|--------|-------|--|
| <u>[Signature]</u> | 7/1/09 | 1541 | <u>[Signature]</u> | 7/1/09 | 15:41 | Turn Around Time:<br>Same Day<br>24-hr<br>48-hr<br>72-hr<br>Standard |

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

Origins Laboratory, Inc.

Noelle E Doyle

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Noelle E Doyle, Laboratory Manager

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

Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6Jl

**S10**  
**X907008-01 (Soil)**

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

**Origins Laboratory, Inc.**

**BTEX by EPA 8260B**

|              |               |         |       |   |         |            |            |
|--------------|---------------|---------|-------|---|---------|------------|------------|
| Benzene      | <b>0.178</b>  | 0.00400 | mg/kg | 1 | 9G01004 | 07/01/2009 | 07/02/2009 |
| Toluene      | <b>0.0420</b> | 0.00400 | "     | " | "       | "          | "          |
| Ethylbenzene | ND            | 0.00400 | "     | " | "       | "          | "          |
| o-Xylene     | <b>0.0443</b> | 0.00400 | "     | " | "       | "          | "          |
| m,p-Xylene   | <b>0.191</b>  | 0.00800 | "     | " | "       | "          | "          |

|                                  |        |          |  |  |   |   |   |
|----------------------------------|--------|----------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 120 %  | 77.6-134 |  |  | " | " | " |
| Surrogate: Toluene-d8            | 90.8 % | 81.4-121 |  |  | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 87.0 % | 74.7-123 |  |  | " | " | " |

**GRO/DRO by EPA 8015M**

|                   |    |       |       |   |         |            |            |
|-------------------|----|-------|-------|---|---------|------------|------------|
| Gasoline (C6-C10) | ND | 50.00 | mg/kg | 1 | 9G01005 | 07/01/2009 | 07/01/2009 |
| Diesel (C10-C28)  | ND | 50.00 | "     | " | "       | "          | "          |

|                        |        |        |  |  |   |   |   |
|------------------------|--------|--------|--|--|---|---|---|
| Surrogate: o-Terphenyl | 88.0 % | 65-140 |  |  | " | " | " |
|------------------------|--------|--------|--|--|---|---|---|

Origins Laboratory, Inc.

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Noelle E Doyle, Laboratory Manager



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LT Environmental, Inc.  
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Arvada CO 80003

Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6Jl

S11

X907008-02 (Soil)

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

Origins Laboratory, Inc.

BTEX by EPA 8260B

|              |        |         |       |   |         |            |            |
|--------------|--------|---------|-------|---|---------|------------|------------|
| Benzene      | 0.109  | 0.00400 | mg/kg | 1 | 9G01004 | 07/01/2009 | 07/02/2009 |
| Toluene      | 0.0689 | 0.00400 | "     | " | "       | "          | "          |
| Ethylbenzene | ND     | 0.00400 | "     | " | "       | "          | "          |
| o-Xylene     | 0.0564 | 0.00400 | "     | " | "       | "          | "          |
| m,p-Xylene   | 0.226  | 0.00800 | "     | " | "       | "          | "          |

|                                  |        |          |  |  |   |   |   |
|----------------------------------|--------|----------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 119 %  | 77.6-134 |  |  | " | " | " |
| Surrogate: Toluene-d8            | 88.1 % | 81.4-121 |  |  | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 83.9 % | 74.7-123 |  |  | " | " | " |

GRO/DRO by EPA 8015M

|                   |    |       |       |   |         |            |            |
|-------------------|----|-------|-------|---|---------|------------|------------|
| Gasoline (C6-C10) | ND | 50.00 | mg/kg | 1 | 9G01005 | 07/01/2009 | 07/01/2009 |
| Diesel (C10-C28)  | ND | 50.00 | "     | " | "       | "          | "          |

|                        |        |        |  |  |   |   |   |
|------------------------|--------|--------|--|--|---|---|---|
| Surrogate: o-Terphenyl | 85.2 % | 65-140 |  |  | " | " | " |
|------------------------|--------|--------|--|--|---|---|---|

Origins Laboratory, Inc.

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Noelle E Doyle, Laboratory Manager

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LT Environmental, Inc.  
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Arvada CO 80003

Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6Jl

S12  
X907008-03 (Soil)

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

Origins Laboratory, Inc.

BTEX by EPA 8260B

|              |        |         |       |   |         |            |            |
|--------------|--------|---------|-------|---|---------|------------|------------|
| Benzene      | 0.122  | 0.00400 | mg/kg | 1 | 9G01004 | 07/01/2009 | 07/02/2009 |
| Toluene      | 0.0283 | 0.00400 | "     | " | "       | "          | "          |
| Ethylbenzene | ND     | 0.00400 | "     | " | "       | "          | "          |
| o-Xylene     | 0.0787 | 0.00400 | "     | " | "       | "          | "          |
| m,p-Xylene   | 0.335  | 0.00800 | "     | " | "       | "          | "          |

|                                  |        |          |  |  |   |   |   |
|----------------------------------|--------|----------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 119 %  | 77.6-134 |  |  | " | " | " |
| Surrogate: Toluene-d8            | 88.2 % | 81.4-121 |  |  | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 82.7 % | 74.7-123 |  |  | " | " | " |

GRO/DRO by EPA 8015M

|                   |    |       |       |   |         |            |            |
|-------------------|----|-------|-------|---|---------|------------|------------|
| Gasoline (C6-C10) | ND | 50.00 | mg/kg | 1 | 9G01005 | 07/01/2009 | 07/01/2009 |
| Diesel (C10-C28)  | ND | 50.00 | "     | " | "       | "          | "          |

|                        |        |        |  |  |   |   |   |
|------------------------|--------|--------|--|--|---|---|---|
| Surrogate: o-Terphenyl | 86.3 % | 65-140 |  |  | " | " | " |
|------------------------|--------|--------|--|--|---|---|---|

Origins Laboratory, Inc.

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LT Environmental, Inc.  
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 Arvada CO 80003

Brian Dodek  
 Project Number: NEP0909  
 Project: Noble – Phillips L30-6J1

**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 9G01005 – Default Prep GC-Semi**

**Blank (9G01005-BLK1)**

Prepared: 07/01/2009 Analyzed: 07/01/2009

|                   |    |       |       |
|-------------------|----|-------|-------|
| Gasoline (C6-C10) | ND | 50.00 | mg/kg |
| Diesel (C10-C28)  | ND | 50.00 | "     |

*Surrogate: o-Terphenyl* 41.0 g 50.0 82.1 65-140

**LCS (9G01005-BS1)**

Prepared: 07/01/2009 Analyzed: 07/01/2009

|                   |        |       |       |     |     |        |
|-------------------|--------|-------|-------|-----|-----|--------|
| Gasoline (C6-C10) | 617.67 | 50.00 | mg/kg | 500 | 124 | 65-140 |
| Diesel (C10-C28)  | 63.58  | 50.00 | "     |     |     | 60-140 |

*Surrogate: o-Terphenyl* 44.7 g 50.0 89.4 65-140

**Matrix Spike (9G01005-MS1)**

Source: X907003-02

Prepared: 07/01/2009 Analyzed: 07/01/2009

|                   |        |       |       |     |    |     |        |
|-------------------|--------|-------|-------|-----|----|-----|--------|
| Gasoline (C6-C10) | 674.70 | 50.00 | mg/kg | 500 | ND | 135 | 65-130 |
| Diesel (C10-C28)  | 53.06  | 50.00 | "     |     | ND |     | 60-140 |

*Surrogate: o-Terphenyl* 44.3 g 50.0 88.6 65-140

**Matrix Spike Dup (9G01005-MSD1)**

Source: X907003-02

Prepared: 07/01/2009 Analyzed: 07/01/2009

|                   |        |       |       |     |    |     |        |      |    |
|-------------------|--------|-------|-------|-----|----|-----|--------|------|----|
| Gasoline (C6-C10) | 650.54 | 50.00 | mg/kg | 500 | ND | 130 | 65-130 | 3.65 | 20 |
| Diesel (C10-C28)  | 51.18  | 50.00 | "     |     | ND |     | 60-140 | 3.62 | 25 |

*Surrogate: o-Terphenyl* 43.3 g 50.0 86.6 65-140

Origins Laboratory, Inc.

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Noelle E Doyle, Laboratory Manager

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

Brian Dodek  
 Project Number: NEP0909  
 Project: Noble – Phillips L30-6Jl

**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 9G01004 – EPA 5030B**

**Blank (9G01004-BLK1)**

Prepared: 07/01/2009 Analyzed: 07/02/2009

|                                  |      |       |       |      |  |      |          |  |  |  |
|----------------------------------|------|-------|-------|------|--|------|----------|--|--|--|
| 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 | 74.9 |       | ug/L  | 62.5 |  | 120  | 77.6-134 |  |  |  |
| Surrogate: Toluene-d8            | 57.2 |       | "     | 62.5 |  | 91.4 | 81.4-121 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 56.0 |       | "     | 62.5 |  | 89.6 | 74.7-123 |  |  |  |

**LCS (9G01004-BS1)**

Prepared: 07/01/2009 Analyzed: 07/02/2009

|                                  |      |       |       |       |  |      |          |  |  |  |
|----------------------------------|------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene                          | 0.20 | 0.004 | mg/kg | 0.200 |  | 100  | 81.7-142 |  |  |  |
| Toluene                          | 0.16 | 0.004 | "     | 0.200 |  | 81.7 | 72.2-134 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 70.1 |       | ug/L  | 62.5  |  | 112  | 77.6-134 |  |  |  |
| Surrogate: Toluene-d8            | 55.4 |       | "     | 62.5  |  | 88.6 | 81.4-121 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 53.2 |       | "     | 62.5  |  | 85.1 | 74.7-123 |  |  |  |

**Matrix Spike (9G01004-MS1)**

Source: X907003-02

Prepared: 07/01/2009 Analyzed: 07/02/2009

|                                  |      |       |       |       |        |      |          |  |  |       |
|----------------------------------|------|-------|-------|-------|--------|------|----------|--|--|-------|
| Benzene                          | 0.18 | 0.004 | mg/kg | 0.200 | ND     | 89.7 | 89.6-143 |  |  |       |
| Toluene                          | 0.13 | 0.004 | "     | 0.200 | 0.0006 | 64.3 | 73-141   |  |  | QM-07 |
| Surrogate: 1,2-Dichloroethane-d4 | 72.3 |       | ug/L  | 62.5  |        | 116  | 77.6-134 |  |  |       |
| Surrogate: Toluene-d8            | 56.6 |       | "     | 62.5  |        | 90.5 | 81.4-121 |  |  |       |
| Surrogate: 4-Bromofluorobenzene  | 53.6 |       | "     | 62.5  |        | 85.8 | 74.7-123 |  |  |       |

**Matrix Spike Dup (9G01004-MSD1)**

Source: X907003-02

Prepared: 07/01/2009 Analyzed: 07/02/2009

|                                  |      |       |       |       |        |      |          |      |      |       |
|----------------------------------|------|-------|-------|-------|--------|------|----------|------|------|-------|
| Benzene                          | 0.19 | 0.004 | mg/kg | 0.200 | ND     | 95.7 | 89.6-143 | 6.45 | 13.1 |       |
| Toluene                          | 0.16 | 0.004 | "     | 0.200 | 0.0006 | 81.8 | 73-141   | 23.9 | 20.9 | QM-07 |
| Surrogate: 1,2-Dichloroethane-d4 | 70.4 |       | ug/L  | 62.5  |        | 113  | 77.6-134 |      |      |       |
| Surrogate: Toluene-d8            | 57.2 |       | "     | 62.5  |        | 91.5 | 81.4-121 |      |      |       |
| Surrogate: 4-Bromofluorobenzene  | 51.7 |       | "     | 62.5  |        | 82.7 | 74.7-123 |      |      |       |

Origins Laboratory, Inc.

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Noelle E Doyle, Laboratory Manager

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

Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6Jl

### Notes and Definitions

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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---

July 07, 2009

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

Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6JI

---

Attached are the analytical results for Noble – Phillips L30-6JI received by Origins Laboratory, Inc. 7/2/2009 2:40:00PM. 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: NEP0909  
Project: Noble – Phillips L30-6JI

#### CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Sampled             | Date Received    |
|-----------|---------------|--------|---------------------|------------------|
| S13       | X907011-01    | Soil   | 7/2/2009 9:40:00AM  | 07/02/2009 14:40 |
| S14       | X907011-02    | Soil   | 7/2/2009 10:40:00AM | 07/02/2009 14:40 |
| S15       | X907011-03    | Soil   | 7/2/2009 11:50:00AM | 07/02/2009 14:40 |
| S16       | X907011-04    | Soil   | 7/2/2009 1:10:00PM  | 07/02/2009 14:40 |

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Noelle E Doyle, Laboratory Manager

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

Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6JI

1107011  
page 1 of 1



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Client: LT ENV. INC.  
Address: 4600 W. 60th Ave.  
Telephone Number: 303.433.9788  
E-Mail Address: b.dodek@LTenvi.com

Project Manager: Brian Dodek  
Project Name: Phillips L30-6JI  
Project Number: NEP0909  
Samples Collected by: PJH

| Sample ID - Description | Date Sampled | Time Sampled | Number of Containers | Preservative |     |                  |             | Matrix      |      | Analysis | Sample Instructions |
|-------------------------|--------------|--------------|----------------------|--------------|-----|------------------|-------------|-------------|------|----------|---------------------|
|                         |              |              |                      | Unpreserved  | HCl | HNO <sub>3</sub> | Other - ICF | Groundwater | Soil |          |                     |
| S13                     | 7-2-09       | 940          | 1                    | X            |     |                  |             |             |      |          | 1                   |
| S14                     | 7-2-09       | 1040         | 1                    | X            |     |                  |             |             |      |          | 2                   |
| S15                     | 7-2-09       | 1150         | 1                    | X            |     |                  |             |             |      |          | 3                   |
| S16                     | 7-2-09       | 1310         | 1                    | X            |     |                  |             |             |      |          | 4                   |
|                         |              |              |                      |              |     |                  |             |             |      |          | 5                   |
|                         |              |              |                      |              |     |                  |             |             |      |          | 6                   |
|                         |              |              |                      |              |     |                  |             |             |      |          | 7                   |
|                         |              |              |                      |              |     |                  |             |             |      |          | 8                   |
|                         |              |              |                      |              |     |                  |             |             |      |          | 9                   |
|                         |              |              |                      |              |     |                  |             |             |      |          | 10                  |

| Relinquished by: | Date   | Time | Received by: | Date   | Time | Temperature Upon Receipt: |
|------------------|--------|------|--------------|--------|------|---------------------------|
| W. Dodek         | 7/2/09 | 1140 | D. Dodek     | 7-2-09 | 1440 | Turn Around Time: 24-hr   |
| D. Dodek         | 7-2-09 | 1540 | D. Dodek     | 7-2-09 | 1740 | 48-hr                     |
|                  |        |      |              |        |      | 72-hr                     |

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

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Noelle E Doyle, Laboratory Manager

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Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6Jl

**S13**  
**X907011-01 (Soil)**

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

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**BTEX by EPA 8260B**

|              |    |         |       |   |         |            |            |
|--------------|----|---------|-------|---|---------|------------|------------|
| Benzene      | ND | 0.00400 | mg/kg | 1 | 9G02003 | 07/02/2009 | 07/03/2009 |
| Toluene      | ND | 0.00400 | "     | " | "       | "          | "          |
| Ethylbenzene | ND | 0.00400 | "     | " | "       | "          | "          |
| o-Xylene     | ND | 0.00400 | "     | " | "       | "          | "          |
| m,p-Xylene   | ND | 0.00800 | "     | " | "       | "          | "          |

|                                  |        |          |  |  |   |   |        |
|----------------------------------|--------|----------|--|--|---|---|--------|
| Surrogate: 1,2-Dichloroethane-d4 | 182 %  | 77.6-134 |  |  | " | " | " S-GC |
| Surrogate: Toluene-d8            | 83.1 % | 81.4-121 |  |  | " | " | "      |
| Surrogate: 4-Bromofluorobenzene  | 113 %  | 74.7-123 |  |  | " | " | "      |

**GRO/DRO by EPA 8015M**

|                   |    |      |       |   |         |            |            |
|-------------------|----|------|-------|---|---------|------------|------------|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | 9G02004 | 07/02/2009 | 07/02/2009 |
| Diesel (C10-C28)  | ND | 50.0 | "     | " | "       | "          | "          |

|                        |        |        |  |  |   |   |   |
|------------------------|--------|--------|--|--|---|---|---|
| Surrogate: o-Terphenyl | 93.1 % | 65-140 |  |  | " | " | " |
|------------------------|--------|--------|--|--|---|---|---|

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Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6Jl

**S14**  
**X907011-02 (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 | 9G02003 | 07/02/2009 | 07/03/2009 |
| Toluene      | ND | 0.00400 | "     | " | "       | "          | "          |
| Ethylbenzene | ND | 0.00400 | "     | " | "       | "          | "          |
| o-Xylene     | ND | 0.00400 | "     | " | "       | "          | "          |
| m,p-Xylene   | ND | 0.00800 | "     | " | "       | "          | "          |

|                                  |        |          |   |   |   |   |
|----------------------------------|--------|----------|---|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 107 %  | 77.6-134 | " | " | " | " |
| Surrogate: Toluene-d8            | 102 %  | 81.4-121 | " | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 94.1 % | 74.7-123 | " | " | " | " |

**GRO/DRO by EPA 8015M**

|                   |    |      |       |   |         |            |            |
|-------------------|----|------|-------|---|---------|------------|------------|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | 9G02004 | 07/02/2009 | 07/02/2009 |
| Diesel (C10-C28)  | ND | 50.0 | "     | " | "       | "          | "          |

|                        |        |        |   |   |   |   |
|------------------------|--------|--------|---|---|---|---|
| Surrogate: o-Terphenyl | 95.3 % | 65-140 | " | " | " | " |
|------------------------|--------|--------|---|---|---|---|

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Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6Jl

**S15**  
**X907011-03 (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 | 9G02003 | 07/02/2009 | 07/03/2009 |
| Toluene      | ND | 0.00400 | "     | " | "       | "          | "          |
| Ethylbenzene | ND | 0.00400 | "     | " | "       | "          | "          |
| o-Xylene     | ND | 0.00400 | "     | " | "       | "          | "          |
| m,p-Xylene   | ND | 0.00800 | "     | " | "       | "          | "          |

|                                  |        |          |  |  |   |   |   |
|----------------------------------|--------|----------|--|--|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 102 %  | 77.6-134 |  |  | " | " | " |
| Surrogate: Toluene-d8            | 101 %  | 81.4-121 |  |  | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 92.6 % | 74.7-123 |  |  | " | " | " |

**GRO/DRO by EPA 8015M**

|                   |    |      |       |   |         |            |            |
|-------------------|----|------|-------|---|---------|------------|------------|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | 9G02004 | 07/02/2009 | 07/02/2009 |
| Diesel (C10-C28)  | ND | 50.0 | "     | " | "       | "          | "          |

|                        |        |        |  |  |   |   |   |
|------------------------|--------|--------|--|--|---|---|---|
| Surrogate: o-Terphenyl | 96.3 % | 65-140 |  |  | " | " | " |
|------------------------|--------|--------|--|--|---|---|---|

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Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6Jl

**S16**  
**X907011-04 (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 | 9G02003 | 07/02/2009 | 07/03/2009 |
| Toluene      | ND | 0.00400 | "     | " | "       | "          | "          |
| Ethylbenzene | ND | 0.00400 | "     | " | "       | "          | "          |
| o-Xylene     | ND | 0.00400 | "     | " | "       | "          | "          |
| m,p-Xylene   | ND | 0.00800 | "     | " | "       | "          | "          |

|                                  |        |          |   |   |   |
|----------------------------------|--------|----------|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 104 %  | 77.6-134 | " | " | " |
| Surrogate: Toluene-d8            | 95.2 % | 81.4-121 | " | " | " |
| Surrogate: 4-Bromofluorobenzene  | 89.5 % | 74.7-123 | " | " | " |

**GRO/DRO by EPA 8015M**

|                   |    |      |       |   |         |            |            |
|-------------------|----|------|-------|---|---------|------------|------------|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg | 1 | 9G02004 | 07/02/2009 | 07/06/2009 |
| Diesel (C10-C28)  | ND | 50.0 | "     | " | "       | "          | "          |

|                        |        |        |   |   |   |
|------------------------|--------|--------|---|---|---|
| Surrogate: o-Terphenyl | 95.6 % | 65-140 | " | " | " |
|------------------------|--------|--------|---|---|---|

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Project: Noble – Phillips L30-6Jl

**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 9G02004 – Default Prep GC-Semi**

**Blank (9G02004-BLK1)**

Prepared: 07/02/2009 Analyzed: 07/02/2009

|                   |    |      |       |
|-------------------|----|------|-------|
| Gasoline (C6-C10) | ND | 50.0 | mg/kg |
| Diesel (C10-C28)  | ND | 50.0 | "     |

Surrogate: o-Terphenyl 62.1 g 50.0 124 65-140

**LCS (9G02004-BS1)**

Prepared: 07/02/2009 Analyzed: 07/02/2009

|                   |      |      |       |     |     |        |
|-------------------|------|------|-------|-----|-----|--------|
| Gasoline (C6-C10) | 629  | 50.0 | mg/kg | 500 | 126 | 65-140 |
| Diesel (C10-C28)  | 69.6 | 50.0 | "     |     |     | 60-140 |

Surrogate: o-Terphenyl 47.5 g 50.0 95.0 65-140

**LCS Dup (9G02004-BSD1)**

Prepared: 07/02/2009 Analyzed: 07/02/2009

|                   |      |      |       |     |     |        |       |    |
|-------------------|------|------|-------|-----|-----|--------|-------|----|
| Gasoline (C6-C10) | 627  | 50.0 | mg/kg | 500 | 125 | 65-140 | 0.383 | 25 |
| Diesel (C10-C28)  | 68.9 | 50.0 | "     |     |     | 60-140 | 1.04  | 25 |

Surrogate: o-Terphenyl 47.5 g 50.0 94.9 65-140

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 Project Number: NEP0909  
 Project: Noble – Phillips L30-6Jl

**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 9G02003 – EPA 5030B**

**Blank (9G02003-BLK1)**

Prepared: 07/02/2009 Analyzed: 07/03/2009

|                                  |      |       |       |      |  |      |          |  |  |  |
|----------------------------------|------|-------|-------|------|--|------|----------|--|--|--|
| 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 | 66.8 |       | ug/L  | 62.5 |  | 107  | 77.6-134 |  |  |  |
| Surrogate: Toluene-d8            | 58.1 |       | "     | 62.5 |  | 93.0 | 81.4-121 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 53.7 |       | "     | 62.5 |  | 85.9 | 74.7-123 |  |  |  |

**LCS (9G02003-BS1)**

Prepared: 07/02/2009 Analyzed: 07/03/2009

|                                  |      |       |       |       |  |      |          |  |  |  |
|----------------------------------|------|-------|-------|-------|--|------|----------|--|--|--|
| Benzene                          | 0.23 | 0.004 | mg/kg | 0.200 |  | 116  | 81.7-142 |  |  |  |
| Toluene                          | 0.17 | 0.004 | "     | 0.200 |  | 86.4 | 72.2-134 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 70.3 |       | ug/L  | 62.5  |  | 113  | 77.6-134 |  |  |  |
| Surrogate: Toluene-d8            | 57.4 |       | "     | 62.5  |  | 91.9 | 81.4-121 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 53.4 |       | "     | 62.5  |  | 85.5 | 74.7-123 |  |  |  |

**Matrix Spike (9G02003-MS1)**

Source: X906117-02

Prepared: 07/02/2009 Analyzed: 07/03/2009

|                                  |      |       |       |       |        |      |          |  |  |  |
|----------------------------------|------|-------|-------|-------|--------|------|----------|--|--|--|
| Benzene                          | 0.26 | 0.004 | mg/kg | 0.200 | ND     | 129  | 89.6-143 |  |  |  |
| Toluene                          | 0.19 | 0.004 | "     | 0.200 | 0.0008 | 95.0 | 73-141   |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 70.0 |       | ug/L  | 62.5  |        | 112  | 77.6-134 |  |  |  |
| Surrogate: Toluene-d8            | 57.9 |       | "     | 62.5  |        | 92.7 | 81.4-121 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 52.0 |       | "     | 62.5  |        | 83.2 | 74.7-123 |  |  |  |

**Matrix Spike Dup (9G02003-MSD1)**

Source: X906117-02

Prepared: 07/02/2009 Analyzed: 07/03/2009

|                                  |      |       |       |       |        |      |          |      |      |  |
|----------------------------------|------|-------|-------|-------|--------|------|----------|------|------|--|
| Benzene                          | 0.26 | 0.004 | mg/kg | 0.200 | ND     | 130  | 89.6-143 | 1.07 | 13.1 |  |
| Toluene                          | 0.19 | 0.004 | "     | 0.200 | 0.0008 | 93.3 | 73-141   | 1.80 | 20.9 |  |
| Surrogate: 1,2-Dichloroethane-d4 | 68.9 |       | ug/L  | 62.5  |        | 110  | 77.6-134 |      |      |  |
| Surrogate: Toluene-d8            | 56.6 |       | "     | 62.5  |        | 90.5 | 81.4-121 |      |      |  |
| Surrogate: 4-Bromofluorobenzene  | 52.6 |       | "     | 62.5  |        | 84.2 | 74.7-123 |      |      |  |

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Brian Dodek  
Project Number: NEP0909  
Project: Noble – Phillips L30-6Jl

### Notes and Definitions

|      |   |
|------|---|
| S-GC | Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate. |
| ND   | Analyte NOT DETECTED at or above the reporting limit  |
| RPD  | Relative Percent Difference   |

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