



February 11, 2015

Mr. Jacob Evans  
Senior Environmental Specialist  
Noble Energy, Inc.  
2115 117<sup>th</sup> Avenue  
Greeley, Colorado 80634

RE: **Remediation Activity Summary**  
**Huwa 11-1,2 Tank Battery**  
**Weld County, Colorado**  
**COGCC Tracking #400704492**

Dear Mr. Evans:

LT Environmental, Inc. (LTE), under the direction of Noble Energy, Inc. (Noble), conducted environmental remediation and confirmation soil sampling following the identification of petroleum hydrocarbon impacted soil at the Huwa 11-1,2 Tank Battery (Site). This report describes the remediation work conducted on November 21 through December 1, 2014. The Site is located approximately 0.75 miles west of County Road 47 and 0.38 miles north of County Road 46 in Weld County, Colorado. The legal site description is the northeast quarter of the southwest quarter of Section 11, Township 4 North, Range 65 West, 6th Principal Meridian. The Site Location Map is provided as Figure 1.

### **Site History and Excavation Scope of Work**

During the removal of a water vault, petroleum hydrocarbon impacted soil was discovered at the Site. As a result, under the direction of Noble, LTE personnel were on site to oversee and document excavation activities, direct excavation work, field screen excavated soil, collect confirmation soil samples, and provide health and safety oversight. The contractor operating the excavation equipment was BG Services, LLC of Fort Lupton, Colorado. The excavated soil was field screened for volatile organic compounds using a photo-ionization detector (PID) to determine if further excavation was necessary.

The excavation activity was initiated on November 21, 2014, and completed on December 1, 2014. The excavation was located in the area of the tank battery. The total extent of the excavation was approximately 80 feet north-south by 40 feet east-west to a total depth of 6 feet below ground surface (bgs). The Excavation Site Map is provided as Figure 2.

Excavated soil consisted primarily of sandy clay from ground surface to total depth of the excavation at approximately 6 feet bgs. Petroleum hydrocarbon staining and odor was observed from approximately 1 foot bgs to total depth. Groundwater was encountered in the excavation at approximately 4 feet bgs. Following completion of excavation activities, 1,000 pounds of an activated carbon-based amendment (BOS 200®) and 500 pounds of gypsum was applied to the floor of the excavation to aid in the remediation of any residual petroleum hydrocarbon impact in



soil and groundwater. A total of 119 truckloads (approximately 1,190 cubic yards) of soil was removed from the Site and transported to the Waste Management Buffalo Ridge Landfill in Keenesburg, Colorado, and North Weld Landfill in Ault, Colorado, for final disposal.

### **Confirmation Soil Sampling**

On November 21 through December 1, 2014, under the direction of Noble, LTE personnel collected 13 discrete confirmation soil samples from the excavation sidewalls and floor. All confirmation soil samples were collected, placed on ice, then submitted with a completed chain of custody form to Summit Scientific (Summit) of Golden, Colorado, for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX), total petroleum hydrocarbons (TPH) as gasoline range organics (GRO), and naphthalene by United States Environmental Protection Agency (EPA) Method 8260B, and TPH as diesel range organics (DRO) by EPA Method 8015.

### **Excavation Groundwater Sampling**

On November 24, 2014, one groundwater grab sample (GW01) was collected from the excavation. The groundwater sample was collected, placed on ice, and delivered with a completed chain of custody form to Summit for analysis of BTEX by EPA Method 8260B.

### **Excavation Soil Analytical Results**

The Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 standards for BTEX, naphthalene, and TPH in soil are 0.17 milligrams per kilogram (mg/kg), 85 mg/kg, 100 mg/kg, 175 mg/kg, 23 mg/kg, and 500 mg/kg, respectively. Excavation soil analytical results indicated soil samples SS01@4' and SS04@4' exceeded the COGCC Table 910-1 standard for benzene at concentrations of 0.88 mg/kg and 0.83 mg/kg, respectively. Soil samples SS01@4', SS04@4', SS08@4', SS09@4', and SS12@4' exceeded the COGCC Table 910-1 standard for TPH at concentrations of 4,900 mg/kg, 1,059 mg/kg, 1,590 mg/kg, 3,100 mg/kg, and 1,480 mg/kg, respectively. All other soil samples representative of the final lateral extent of the excavation were compliant with applicable COGCC Table 910-1 standards. The laboratory soil analytical results are presented on Figure 3 and summarized in Table 1. The laboratory analytical reports are attached.

### **Excavation Groundwater Analytical Results**

The Colorado Department of Public Health and Environment-Water Quality Control Commission has established Regulation 41-The Basic Standards for Ground Water (WQCC Reg 41) for BTEX at 5.0 micrograms per liter (µg/L), 560 µg/L, 700 µg/L, and 1,400 µg/L, respectively. Laboratory groundwater analytical results indicated grab sample GW01 exceeded the WQCC Reg 41 standards for benzene and total xylenes at concentrations of 45 µg/L and 2,200 µg/L, respectively. Groundwater analytical results are presented on Figure 4 and summarized in Table 2. The laboratory analytical report is attached.



## Summary

LTE, under the direction of Noble, conducted oversight of source removal of petroleum hydrocarbon impacted soil at the Site and conducted confirmation soil sampling activities. Per the excavation activities conducted and confirmation soil sample laboratory analytical results, the lateral extent of impacted soil above the groundwater saturated zone was removed and a groundwater amendment was applied to the saturated interval. Approximately 1,190 cubic yards of soil was removed from the excavation and transported to the Waste Management Buffalo Ridge Landfill in Keenesburg, Colorado, and the North Weld Landfill in Ault, Colorado, for final disposal. Groundwater was encountered in the excavation at approximately 4 feet bgs. Groundwater analytical results from the sample collected from the open excavation exceeded the WQCC Reg 41 standards for benzene and total xylenes; therefore, a groundwater monitoring program will be implemented once monitoring wells are in place. Monitoring wells will be monitored on a quarterly basis until laboratory analytical results reflect four consecutive quarters in compliance with applicable WQCC Reg 41 standards. Further remediation efforts will be discussed in future correspondence.

LTE appreciates the opportunity to provide environmental services to Noble. Please call us at 303-433-9788 if you have any questions or comments regarding this report.

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in black ink, appearing to read 'Chris Roy'.

Chris Roy  
Project Manager

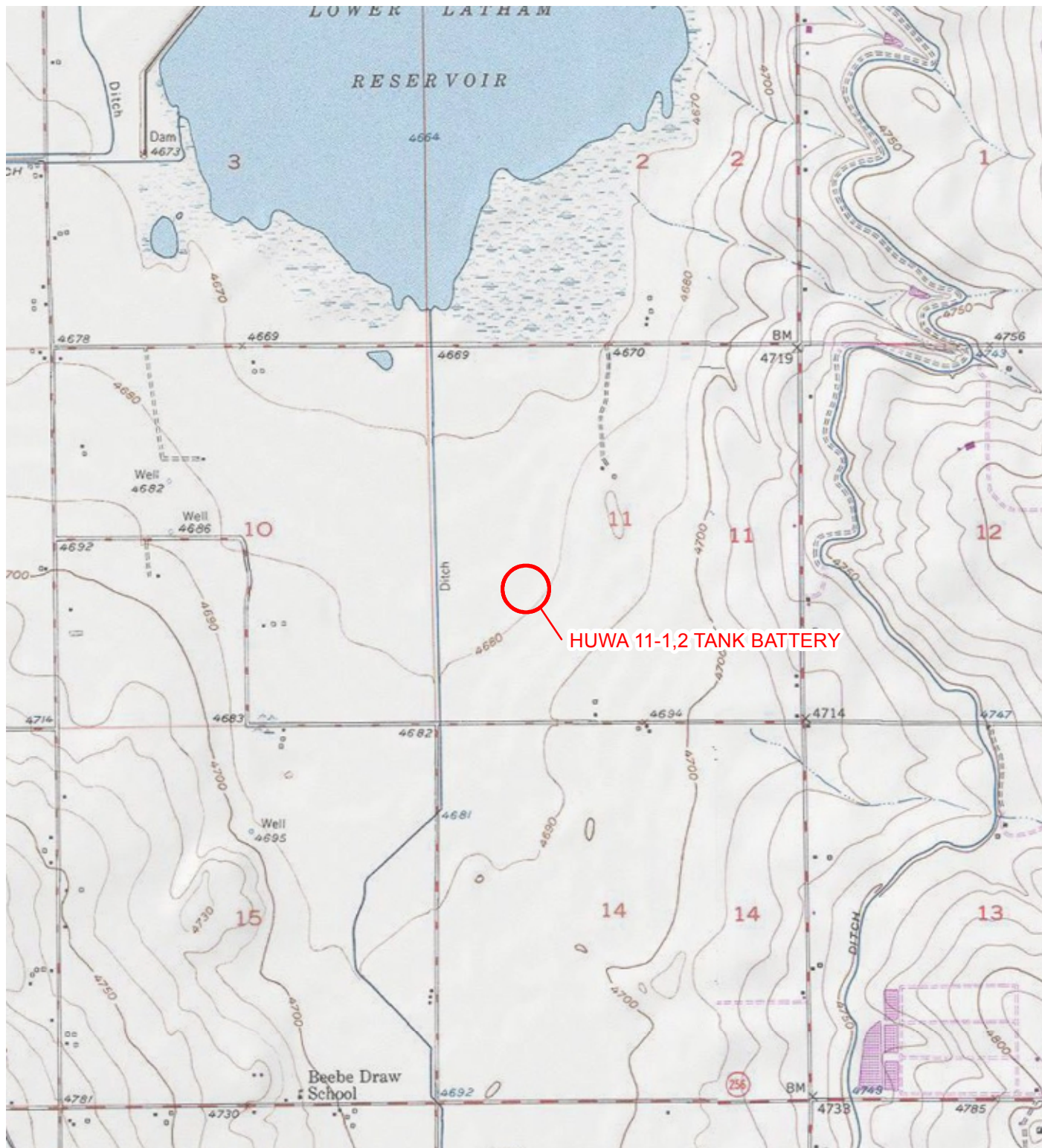
A handwritten signature in black ink, appearing to read 'Steve Kahn'.

Steve Kahn, P.E.  
Principal

## Attachments

|            |   |
|------------|---|
| Figure 1   | Site Location Map                         |
| Figure 2   | Excavation Site Map                       |
| Figure 3   | Excavation Soil Analytical Results        |
| Figure 4   | Excavation Groundwater Analytical Results |
| Table 1    | Excavation Soil Analytical Results        |
| Table 2    | Excavation Groundwater Analytical Results |
| Attachment | Laboratory Analytical Reports             |

## FIGURES



# LEGEND

IMAGE COURTESY OF ESRI/USGS

○ SITE LOCATION

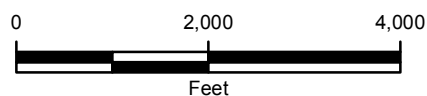


FIGURE 1  
SITE LOCATION MAP  
HUWA 11-1,2 TANK BATTERY  
WELD COUNTY, COLORADO

NOBLE ENERGY, INC.



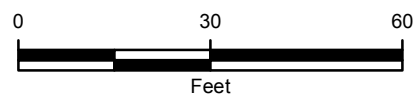




IMAGE COURTESY OF ESRI

## LEGEND

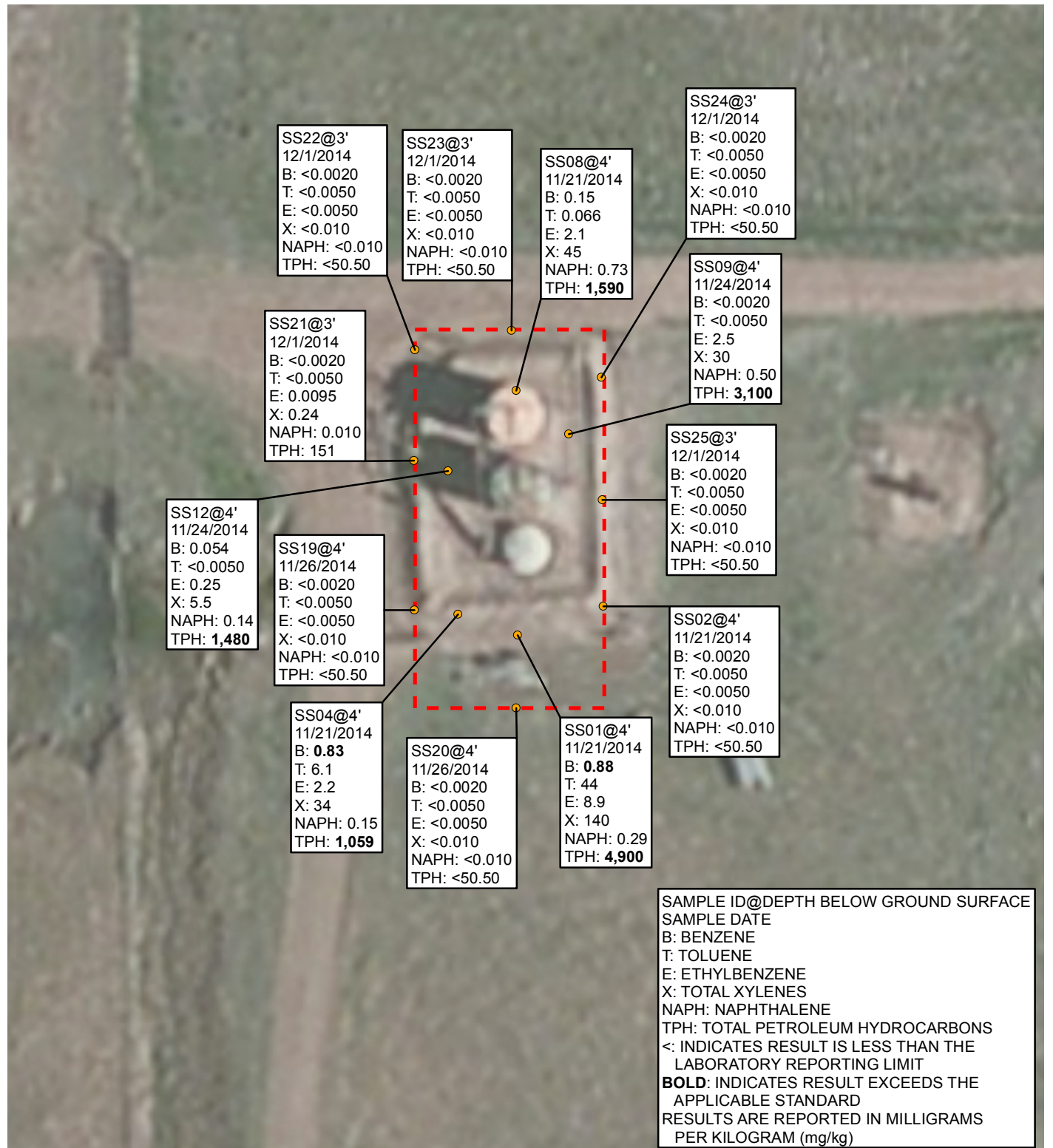
- EXCAVATION SOIL SAMPLE
- - - EXCAVATION EXTENT



**FIGURE 2**  
EXCAVATION SITE MAP  
HUWA 11-1,2 TANK BATTERY  
WELD COUNTY, COLORADO

**NOBLE ENERGY, INC.**

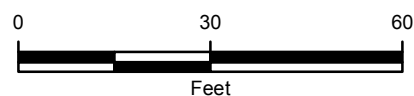




## LEGEND

- EXCAVATION SOIL SAMPLE
- EXCAVATION EXTENT

IMAGE COURTESY OF ESRI



**FIGURE 3**  
**EXCAVATION SOIL ANALYTICAL RESULTS**  
**HUWA 11-1,2 TANK BATTERY**  
**WELD COUNTY, COLORADO**

**NOBLE ENERGY, INC.**



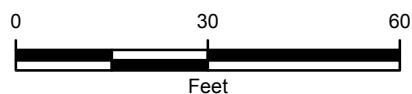




IMAGE COURTESY OF ESRI

## LEGEND

- EXCAVATION SOIL SAMPLE
- ⊕ EXCAVATION GROUNDWATER SAMPLE
- EXCAVATION EXTENT



**FIGURE 4**  
EXCAVATION GROUNDWATER ANALYTICAL RESULTS  
HUWA 11-1,2 TANK BATTERY  
WELD COUNTY, COLORADO

**NOBLE ENERGY, INC.**





## TABLES

TABLE 1

EXCAVATION SOIL ANALYTICAL RESULTS  
 HUWA 11-1,2 TANK BATTERY  
 WELD COUNTY, COLORADO  
 NOBLE ENERGY, INC.

| Soil Sample                       | Date       | Benzene<br>(mg/kg) | Toluene<br>(mg/kg) | Ethylbenzene<br>(mg/kg) | Total Xylenes<br>(mg/kg) | Naphthalene<br>(mg/kg) | GRO<br>(mg/kg) | DRO<br>(mg/kg) | TPH<br>(mg/kg) |
|-----------------------------------|------------|--------------------|--------------------|-------------------------|--------------------------|------------------------|----------------|----------------|----------------|
| SS01@4'                           | 11/21/2014 | <b>0.88</b>        | 44                 | 8.9                     | 140                      | 0.29                   | 3,100          | 1,800          | <b>4,900</b>   |
| SS02@4'                           | 11/21/2014 | <0.0020            | <0.0050            | <0.0050                 | <0.010                   | <0.010                 | <0.50          | <50            | <50.50         |
| SS04@4'                           | 11/21/2014 | <b>0.83</b>        | 6.1                | 2.2                     | 34                       | 0.15                   | 980            | 79             | <b>1,059</b>   |
| SS08@4'                           | 11/21/2014 | 0.15               | 0.066              | 2.1                     | 45                       | 0.73                   | 1,300          | 290            | <b>1,590</b>   |
| SS09@4'                           | 11/24/2014 | <0.0020            | <0.0050            | 2.5                     | 30                       | 0.50                   | 1,900          | 1,200          | <b>3,100</b>   |
| SS12@4'                           | 11/24/2014 | 0.054              | <0.0050            | 0.25                    | 5.5                      | 0.14                   | 380            | 1,100          | <b>1,480</b>   |
| SS19@4'                           | 11/26/2014 | <0.0020            | <0.0050            | <0.0050                 | <0.010                   | <0.010                 | <0.50          | <50            | <50.50         |
| SS20@4'                           | 11/26/2014 | <0.0020            | <0.0050            | <0.0050                 | <0.010                   | <0.010                 | <0.50          | <50            | <50.50         |
| SS21@3'                           | 12/1/2014  | <0.0020            | <0.0050            | 0.0095                  | 0.24                     | 0.010                  | 11             | 140            | 151            |
| SS22@3'                           | 12/1/2014  | <0.0020            | <0.0050            | <0.0050                 | <0.010                   | <0.010                 | <0.50          | <50            | <50.50         |
| SS23@3'                           | 12/1/2014  | <0.0020            | <0.0050            | <0.0050                 | <0.010                   | <0.010                 | <0.50          | <50            | <50.50         |
| SS24@3'                           | 12/1/2014  | <0.0020            | <0.0050            | <0.0050                 | <0.010                   | <0.010                 | <0.50          | <50            | <50.50         |
| SS25@3'                           | 12/1/2014  | <0.0020            | <0.0050            | <0.0050                 | <0.010                   | <0.010                 | <0.50          | <50            | <50.50         |
| <b>COGCC Table 910-1 Standard</b> |            | <b>0.17</b>        | <b>85</b>          | <b>100</b>              | <b>175</b>               | <b>23</b>              | <b>--</b>      | <b>--</b>      | <b>500</b>     |

**NOTES:**

COGCC - Colorado Oil and Gas Conservation Commission

DRO - diesel range organics analyzed by EPA Method 8015

GRO - gasoline range organics analyzed by EPA Method 8260B

mg/kg - milligrams per kilogram

TPH - total petroleum hydrocarbons is the sum of GRO and DRO

&lt; - indicates result is less than the stated laboratory reporting limit

-- - not applicable

**BOLD** indicates result exceeds the applicable standard

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

TABLE 2

EXCAVATION GROUNDWATER ANALYTICAL RESULTS  
HUWA 11-1,2 TANK BATTERY  
WELD COUNTY, COLORADO  
NOBLE ENERGY, INC.

| Soil Sample                | Date       | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethylbenzene<br>(µg/L) | Total Xylenes<br>(µg/L) |
|----------------------------|------------|-------------------|-------------------|------------------------|-------------------------|
| GW01                       | 11/24/2014 | <b>45</b>         | 23                | 170                    | <b>2,200</b>            |
| CDPHE WQCC Reg 41 Standard |            | <b>5.0</b>        | <b>560</b>        | <b>700</b>             | <b>1,400</b>            |

NOTES:

µg/L - micrograms per liter

**BOLD** indicates result exceeds the applicable standard

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-The Basic Standards for Ground Water

**ATTACHMENT**  
**LABORATORY ANALYTICAL REPORTS**





# Summit Scientific

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741 Corporate Circle – Suite J ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.374.5933 - fax

November 24, 2014

Chris Roy  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: Huwa 11-1, 2

Enclosed are the results of analyses for samples received by Summit Scientific on 11/21/14 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Joseph J Egry IV". The signature is fluid and cursive, with a small "IV" superscripted at the end.

Joseph J Egry IV For Paul Shrewsbury  
President

This report shall not be reproduced, except in its entirety, without the written approval of Summit Scientific. Test results relate only to samples analyzed.

Summit Scientific is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.



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

Project: Huwa 11-1, 2

Project Number: [none]  
Project Manager: Chris Roy

**Reported:**  
11/24/14 12:18

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| SS01@4'   | 1411161-01    | Soil   | 11/21/14 14:10 | 11/21/14 17:00 |
| SS02@4'   | 1411161-02    | Soil   | 11/21/14 14:20 | 11/21/14 17:00 |
| SS04@4'   | 1411161-03    | Soil   | 11/21/14 14:30 | 11/21/14 17:00 |
| SS08@4'   | 1411161-04    | Soil   | 11/21/14 16:00 | 11/21/14 17:00 |

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Summit Scientific

*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.*

---

Joseph J Egry IV For Paul Shrewsbury, President



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

Project: Huwa 11-1, 2

Project Number: [none]  
Project Manager: Chris Roy

Reported:  
11/24/14 12:18

# Summit Scientific 1411161

S<sub>2</sub>

741 Corporate Circle, Suite J&K ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-374-5933

Page 1 of 1

Client: LT Project Manager: Chris Roy  
Address: \_\_\_\_\_ E-Mail: croyle@ltenv.com  
City/State/Zip: \_\_\_\_\_  
Phone: 303-433-7368 Fax: \_\_\_\_\_ Project Name: Huwa 11-1, 2  
Sampler Name: 1411161 Project Number: \_\_\_\_\_

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative |                  |      |                 | Matrix      |      |                |                 | Analysis Requested |      |      |      |                  |        |       |  | Special Instructions |
|----|--------------------|--------------|--------------|-----------------|--------------|------------------|------|-----------------|-------------|------|----------------|-----------------|--------------------|------|------|------|------------------|--------|-------|--|----------------------|
|    |                    |              |              |                 | HCl          | HNO <sub>3</sub> | None | Other (Specify) | Groundwater | Soil | Air-Canister # | Other (Specify) | BTEX               | PAHs | PCBs | DDTs | Organophosphates | Metals | Other |  |                      |
| 1  | SS0104             | 11/21/14     | 1440         | 1               |              |                  |      |                 |             | X    |                |                 |                    |      |      |      |                  |        |       |  |                      |
| 2  | SS0204             |              | 1420         | 1               |              |                  |      |                 |             | X    |                |                 |                    |      |      |      |                  |        |       |  |                      |
| 3  | SS0304             |              | 1430         | 1               |              |                  |      |                 |             | X    |                |                 |                    |      |      |      |                  |        |       |  |                      |
| 4  | SS0404             |              | 1440         | 1               |              |                  |      |                 |             | X    |                |                 |                    |      |      |      |                  |        |       |  |                      |
| 5  |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |      |      |      |                  |        |       |  |                      |
| 6  |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |      |      |      |                  |        |       |  |                      |
| 7  |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |      |      |      |                  |        |       |  |                      |
| 8  |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |      |      |      |                  |        |       |  |                      |
| 9  |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |      |      |      |                  |        |       |  |                      |
| 10 |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |      |      |      |                  |        |       |  |                      |

|                                     |                                 |                                 |                                 |                                       |        |
|-------------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------------|--------|
| Relinquished by: <u>[Signature]</u> | Date/Time: <u>11/21/14 1700</u> | Received by: <u>[Signature]</u> | Date/Time: <u>11/21/14 1700</u> | Turn Around Time (Check)              | Notes: |
| Relinquished by:                    | Date/Time:                      | Received by:                    | Date/Time:                      | Same Day <u>X</u> 72 hours <u>—</u>   |        |
| Relinquished by:                    | Date/Time:                      | Received by:                    | Date/Time:                      | 24 hours <u>—</u> Standard <u>—</u>   |        |
| Relinquished by:                    | Date/Time:                      | Received by:                    | Date/Time:                      | 48 hours <u>—</u>                     |        |
| Sample Integrity:                   |                                 |                                 |                                 | Temperature Upon Receipt: <u>10°C</u> |        |
| Intact: <u>Yes</u> No               |                                 |                                 |                                 |                                       |        |

www.s2scientific.com

Soil samples reported on a wet-weight basis unless otherwise indicated on results page.

Summit Scientific

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.

[Signature]

Joseph J Egry IV For Paul Shrewsbury, President



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

Project: Huwa 11-1, 2  
Project Number: [none]  
Project Manager: Chris Roy

Reported:  
11/24/14 12:18

#### Sample Receipt Checklist

S2 Work Order: 1411161

Client: LEE

Client Project ID: Huwa 11-1, 2

Shipped Via: Pick up  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #:                     

Matrix (check all that apply):        Air   ✓   Soil/Solid        Water        Other:                      (Describe)

|           |             |  |  |  |  |
|-----------|-------------|--|--|--|--|
| Cooler ID | <u>1</u>    |  |  |  |  |
| Temp (°C) | <u>10.0</u> |  |  |  |  |

Thermometer ID: 61857155-K

|   | Yes | No | N/A | Comments (if any) |
|---|-----|----|-----|-------------------|
| If samples require cooling, was the temperature just above 0°C to ≤ 6°C <sup>(1)</sup> ?  |     | ✓  |     |                   |
| NOTE: If samples are delivered the same day of sampling, this requirement is waived provided that there is evidence that cooling has begun. |     |    |     |                   |
| Were all samples received intact <sup>(1)</sup> ?   | ✓   |    |     |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?  | ✓   |    |     |                   |
| If custody seals are present, are they intact <sup>(1)</sup> ?  |     |    | ✓   |                   |
| Are short holding time analytes or samples with HTs due within 48 hours present?  | ✓   |    |     | Same day TAT      |
| Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?   | ✓   |    |     |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?   | ✓   |    |     |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?   | ✓   |    |     |                   |
| Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?   | ✓   |    | ✓   |                   |
| For volatiles in water – is there headspace present? If yes, contact client and note in narrative.  |     |    | ✓   |                   |
| Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ?  |     |    | ✓   |                   |
| Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, etc.   |     |    |     |                   |
| If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ?  |     |    | ✓   |                   |
| Record the pH in Comments.  |     |    |     |                   |
| If dissolved metals are requested, were samples field filtered?   |     |    | ✓   |                   |
| Additional Comments (if any):   |     |    |     |                   |
|   |     |    |     |                   |
| <sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.                                   |     |    |     |                   |

Joseph J Egr IV  
Custodian Printed Name

Joseph J Egr IV  
Signature or Initials of Custodian

11/22/14  
Date/Time

Soil samples reported on a wet-weight basis unless otherwise indicated on results page.

Summit Scientific

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.

Joseph J Egr IV

Joseph J Egr IV For Paul Shrewsbury, President





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

Project: Huwa 11-1, 2  
Project Number: [none]  
Project Manager: Chris Roy

Reported:  
11/24/14 12:18

**SS01@4'**  
**1411161-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/21/14 14:10**

| Analyte              | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed       | Method | Notes |
|----------------------|-------------|-----------------|-------|----------|---------|----------|----------------|--------|-------|
| <b>C10-C28 (DRO)</b> | <b>1800</b> | 50              | mg/kg | 1        | 1411217 | 11/22/14 | 11/23/14 01:20 | 8015M  |       |

Date Sampled: **11/21/14 14:10**

| Analyte                       | Result       | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|--------------|-----------------|-------|----------|-------|----------|----------|--------|-------|
| <i>Surrogate: o-Terphenyl</i> | <i>119 %</i> | <i>30-150</i>   |       |          | "     | "        | "        | "      |       |

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/21/14 14:10**

| Analyte                            | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed       | Method    | Notes |
|------------------------------------|-------------|-----------------|-------|----------|---------|----------|----------------|-----------|-------|
| <b>Naphthalene</b>                 | <b>0.29</b> | 0.010           | mg/kg | 1        | 1411216 | 11/22/14 | 11/22/14 23:05 | EPA 8260B |       |
| <b>Benzene</b>                     | <b>0.88</b> | 0.20            | "     | 100      | "       | "        | 11/23/14 19:21 | "         |       |
| <b>Toluene</b>                     | <b>44</b>   | 0.50            | "     | "        | "       | "        | "              | "         |       |
| <b>Ethylbenzene</b>                | <b>8.9</b>  | 0.50            | "     | "        | "       | "        | "              | "         |       |
| <b>Xylenes (total)</b>             | <b>140</b>  | 1.0             | "     | "        | "       | "        | "              | "         |       |
| <b>Gasoline Range Hydrocarbons</b> | <b>3100</b> | 50              | "     | "        | "       | "        | "              | "         |       |

Date Sampled: **11/21/14 14:10**

| Analyte                                 | Result        | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed              | Method | Notes |
|---|---------------|-----------------|-------|----------|-------|----------|-----------------------|--------|-------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>94.4 %</i> | <i>23-173</i>   |       |          | "     | "        | <i>11/22/14 23:05</i> | "      |       |
| <i>Surrogate: Toluene-d8</i>            | <i>116 %</i>  | <i>20-170</i>   |       |          | "     | "        | "                     | "      |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>131 %</i>  | <i>21-167</i>   |       |          | "     | "        | "                     | "      |       |

Summit Scientific

*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.*

Joseph J Egry IV For Paul Shrewsbury, President



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

Project: Huwa 11-1, 2  
Project Number: [none]  
Project Manager: Chris Roy

Reported:  
11/24/14 12:18

SS02@4'  
1411161-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 11/21/14 14:20

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed       | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------------|--------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | 1411217 | 11/22/14 | 11/23/14 01:46 | 8015M  |       |

Date Sampled: 11/21/14 14:20

| Analyte                | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 99.7 % | 30-150          |       |          | "     | "        | "        | "      |       |

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/21/14 14:20

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed       | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------------|-----------|-------|
| Naphthalene                 | ND     | 0.010           | mg/kg | 1        | 1411216 | 11/22/14 | 11/23/14 19:45 | EPA 8260B |       |
| Benzene                     | ND     | 0.0020          | "     | "        | "       | "        | "              | "         |       |
| Toluene                     | ND     | 0.0050          | "     | "        | "       | "        | "              | "         |       |
| Ethylbenzene                | ND     | 0.0050          | "     | "        | "       | "        | "              | "         |       |
| Xylenes (total)             | ND     | 0.010           | "     | "        | "       | "        | "              | "         |       |
| Gasoline Range Hydrocarbons | ND     | 0.50            | "     | "        | "       | "        | "              | "         |       |

Date Sampled: 11/21/14 14:20

| Analyte                          | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 107 %  | 23-173          |       |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 91.9 % | 20-170          |       |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 106 %  | 21-167          |       |          | "     | "        | "        | "      |       |

Summit Scientific

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Joseph J Egry IV For Paul Shrewsbury, President



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

Project: Huwa 11-1, 2  
Project Number: [none]  
Project Manager: Chris Roy

Reported:  
11/24/14 12:18

**SS04@4'**  
**1411161-03 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/21/14 14:30**

| Analyte              | Result    | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed       | Method | Notes |
|----------------------|-----------|-----------------|-------|----------|---------|----------|----------------|--------|-------|
| <b>C10-C28 (DRO)</b> | <b>79</b> | 50              | mg/kg | 1        | 1411217 | 11/22/14 | 11/23/14 02:13 | 8015M  |       |

Date Sampled: **11/21/14 14:30**

| Analyte                       | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
| <i>Surrogate: o-Terphenyl</i> | 98.5 % | 30-150          |       |          | "     | "        | "        | "      |       |

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/21/14 14:30**

| Analyte                            | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed       | Method    | Notes |
|------------------------------------|-------------|-----------------|-------|----------|---------|----------|----------------|-----------|-------|
| <b>Naphthalene</b>                 | <b>0.15</b> | 0.010           | mg/kg | 1        | 1411216 | 11/22/14 | 11/22/14 23:53 | EPA 8260B |       |
| <b>Benzene</b>                     | <b>0.83</b> | 0.20            | "     | 100      | "       | "        | 11/23/14 20:09 | "         |       |
| <b>Toluene</b>                     | <b>6.1</b>  | 0.50            | "     | "        | "       | "        | "              | "         |       |
| <b>Ethylbenzene</b>                | <b>2.2</b>  | 0.50            | "     | "        | "       | "        | "              | "         |       |
| <b>Xylenes (total)</b>             | <b>34</b>   | 1.0             | "     | "        | "       | "        | "              | "         |       |
| <b>Gasoline Range Hydrocarbons</b> | <b>980</b>  | 50              | "     | "        | "       | "        | "              | "         |       |

Date Sampled: **11/21/14 14:30**

| Analyte                                 | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed       | Method | Notes |
|---|--------|-----------------|-------|----------|-------|----------|----------------|--------|-------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 90.9 % | 23-173          |       |          | "     | "        | 11/22/14 23:53 | "      |       |
| <i>Surrogate: Toluene-d8</i>            | 109 %  | 20-170          |       |          | "     | "        | "              | "      |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 109 %  | 21-167          |       |          | "     | "        | "              | "      |       |

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Joseph J Egry IV For Paul Shrewsbury, President



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

Project: Huwa 11-1, 2

Project Number: [none]  
Project Manager: Chris Roy

Reported:  
11/24/14 12:18

**SS08@4'**  
**1411161-04 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/21/14 16:00**

| Analyte              | Result     | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed       | Method | Notes |
|----------------------|------------|-----------------|-------|----------|---------|----------|----------------|--------|-------|
| <b>C10-C28 (DRO)</b> | <b>290</b> | 50              | mg/kg | 1        | 1411217 | 11/22/14 | 11/23/14 02:39 | 8015M  |       |

Date Sampled: **11/21/14 16:00**

| Analyte                       | Result       | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|--------------|-----------------|-------|----------|-------|----------|----------|--------|-------|
| <i>Surrogate: o-Terphenyl</i> | <i>100 %</i> | <i>30-150</i>   |       |          | "     | "        | "        | "      |       |

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/21/14 16:00**

| Analyte                            | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed       | Method    | Notes |
|------------------------------------|--------------|-----------------|-------|----------|---------|----------|----------------|-----------|-------|
| <b>Naphthalene</b>                 | <b>0.73</b>  | 0.010           | mg/kg | 1        | 1411216 | 11/22/14 | 11/23/14 00:17 | EPA 8260B |       |
| <b>Benzene</b>                     | <b>0.15</b>  | 0.0020          | "     | "        | "       | "        | "              | "         |       |
| <b>Toluene</b>                     | <b>0.066</b> | 0.0050          | "     | "        | "       | "        | "              | "         |       |
| <b>Ethylbenzene</b>                | <b>2.1</b>   | 0.50            | "     | 100      | "       | "        | "              | "         |       |
| <b>Xylenes (total)</b>             | <b>45</b>    | 1.0             | "     | "        | "       | "        | "              | "         |       |
| <b>Gasoline Range Hydrocarbons</b> | <b>1300</b>  | 50              | "     | "        | "       | "        | "              | "         |       |

Date Sampled: **11/21/14 16:00**

| Analyte                                 | Result        | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---------------|-----------------|-------|----------|-------|----------|----------|--------|-------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>92.0 %</i> | <i>23-173</i>   |       |          | "     | "        | "        | "      |       |
| <i>Surrogate: Toluene-d8</i>            | <i>119 %</i>  | <i>20-170</i>   |       |          | "     | "        | "        | "      |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>112 %</i>  | <i>21-167</i>   |       |          | "     | "        | "        | "      |       |

Summit Scientific

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Joseph J Egry IV For Paul Shrewsbury, President





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

Project: Huwa 11-1, 2

Project Number: [none]  
Project Manager: Chris Roy

**Reported:**  
11/24/14 12:18

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

| Analyte | Reporting |       |       | Spike | Source |      | %REC   |     | RPD   |       |
|---------|-----------|-------|-------|-------|--------|------|--------|-----|-------|-------|
|         | Result    | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

**Batch 1411217 - EPA 3550A**

**Blank (1411217-BLK1)**

Prepared & Analyzed: 11/22/14

|                        |      |    |       |      |  |     |        |  |  |  |
|------------------------|------|----|-------|------|--|-----|--------|--|--|--|
| C10-C28 (DRO)          | ND   | 50 | mg/kg |      |  |     |        |  |  |  |
| Surrogate: o-Terphenyl | 12.8 |    | "     | 12.2 |  | 105 | 30-150 |  |  |  |

**LCS (1411217-BS1)**

Prepared & Analyzed: 11/22/14

|                        |      |    |       |      |  |      |        |  |  |  |
|------------------------|------|----|-------|------|--|------|--------|--|--|--|
| C10-C28 (DRO)          | 481  | 50 | mg/kg | 501  |  | 96.1 | 73-134 |  |  |  |
| Surrogate: o-Terphenyl | 12.2 |    | "     | 12.2 |  | 100  | 30-150 |  |  |  |

**Matrix Spike (1411217-MS1)**

Source: 1411161-01

Prepared: 11/22/14 Analyzed: 11/23/14

|                        |      |    |       |      |      |     |        |  |  |  |
|------------------------|------|----|-------|------|------|-----|--------|--|--|--|
| C10-C28 (DRO)          | 2540 | 50 | mg/kg | 501  | 1820 | 144 | 50-148 |  |  |  |
| Surrogate: o-Terphenyl | 16.9 |    | "     | 12.2 |      | 138 | 30-150 |  |  |  |

**Matrix Spike Dup (1411217-MSD1)**

Source: 1411161-01

Prepared: 11/22/14 Analyzed: 11/23/14

|                        |      |    |       |      |      |     |        |       |    |  |
|------------------------|------|----|-------|------|------|-----|--------|-------|----|--|
| C10-C28 (DRO)          | 2520 | 50 | mg/kg | 501  | 1820 | 139 | 50-148 | 0.862 | 13 |  |
| Surrogate: o-Terphenyl | 15.1 |    | "     | 12.2 |      | 124 | 30-150 |       |    |  |

Summit Scientific

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Joseph J Egry IV For Paul Shrewsbury, President



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

Project: Huwa 11-1, 2  
Project Number: [none]  
Project Manager: Chris Roy

Reported:  
11/24/14 12:18

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

| Analyte | Reporting |       |       | Spike | Source |      | %REC   |     | RPD   |       |
|---------|-----------|-------|-------|-------|--------|------|--------|-----|-------|-------|
|         | Result    | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

#### Batch 1411216 - EPA 5030 Soil MS

##### Blank (1411216-BLK1)

Prepared & Analyzed: 11/22/14

|                                  |        |        |       |        |  |      |        |  |  |  |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Naphthalene                      | ND     | 0.010  | mg/kg |        |  |      |        |  |  |  |
| Benzene                          | ND     | 0.0020 | "     |        |  |      |        |  |  |  |
| Toluene                          | ND     | 0.0050 | "     |        |  |      |        |  |  |  |
| Ethylbenzene                     | ND     | 0.0050 | "     |        |  |      |        |  |  |  |
| Xylenes (total)                  | ND     | 0.010  | "     |        |  |      |        |  |  |  |
| Gasoline Range Hydrocarbons      | ND     | 0.50   | "     |        |  |      |        |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0388 |        | "     | 0.0396 |  | 97.9 | 23-173 |  |  |  |
| Surrogate: Toluene-d8            | 0.0388 |        | "     | 0.0400 |  | 97.1 | 20-170 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.0404 |        | "     | 0.0400 |  | 101  | 21-167 |  |  |  |

##### LCS (1411216-BS1)

Prepared & Analyzed: 11/22/14

|                                  |        |        |       |        |  |      |        |  |  |  |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Naphthalene                      | ND     | 0.010  | mg/kg |        |  |      | 66-138 |  |  |  |
| Benzene                          | 0.104  | 0.0020 | "     | 0.100  |  | 104  | 58-130 |  |  |  |
| Toluene                          | 0.103  | 0.0050 | "     | 0.100  |  | 103  | 61-134 |  |  |  |
| Ethylbenzene                     | 0.111  | 0.0050 | "     | 0.0992 |  | 111  | 74-139 |  |  |  |
| m,p-Xylene                       | 0.211  | 0.010  | "     | 0.200  |  | 106  | 73-137 |  |  |  |
| o-Xylene                         | 0.103  | 0.0050 | "     | 0.0984 |  | 105  | 73-141 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0352 |        | "     | 0.0396 |  | 88.9 | 23-173 |  |  |  |
| Surrogate: Toluene-d8            | 0.0395 |        | "     | 0.0400 |  | 98.8 | 20-170 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.0401 |        | "     | 0.0400 |  | 100  | 21-167 |  |  |  |

##### Matrix Spike (1411216-MS1)

Source: 1411162-01

Prepared: 11/22/14 Analyzed: 11/23/14

|                                  |        |        |       |        |    |      |        |  |  |  |
|----------------------------------|--------|--------|-------|--------|----|------|--------|--|--|--|
| Naphthalene                      | ND     | 0.010  | mg/kg |        | ND |      | 10-158 |  |  |  |
| Benzene                          | 0.103  | 0.0020 | "     | 0.100  | ND | 103  | 30-131 |  |  |  |
| Toluene                          | 0.102  | 0.0050 | "     | 0.100  | ND | 102  | 30-134 |  |  |  |
| Ethylbenzene                     | 0.111  | 0.0050 | "     | 0.0992 | ND | 112  | 22-153 |  |  |  |
| m,p-Xylene                       | 0.211  | 0.010  | "     | 0.200  | ND | 106  | 10-159 |  |  |  |
| o-Xylene                         | 0.106  | 0.0050 | "     | 0.0984 | ND | 108  | 31-151 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0382 |        | "     | 0.0396 |    | 96.5 | 23-173 |  |  |  |
| Surrogate: Toluene-d8            | 0.0387 |        | "     | 0.0400 |    | 96.8 | 20-170 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.0395 |        | "     | 0.0400 |    | 98.8 | 21-167 |  |  |  |

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Joseph J Egry IV For Paul Shrewsbury, President



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

Project: Huwa 11-1, 2  
Project Number: [none]  
Project Manager: Chris Roy

Reported:  
11/24/14 12:18

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

| Analyte | Reporting |       |       | Spike | Source |      | %REC   |     | RPD   |       |
|---------|-----------|-------|-------|-------|--------|------|--------|-----|-------|-------|
|         | Result    | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

**Batch 1411216 - EPA 5030 Soil MS**

| Matrix Spike Dup (1411216-MSD1)  |        | Source: 1411162-01 |       |        | Prepared: 11/22/14 |      | Analyzed: 11/23/14 |       |    |
|----------------------------------|--------|--------------------|-------|--------|--------------------|------|--------------------|-------|----|
| Naphthalene                      | ND     | 0.010              | mg/kg |        | ND                 |      | 10-158             |       | 42 |
| Benzene                          | 0.0994 | 0.0020             | "     | 0.100  | ND                 | 99.4 | 30-131             | 3.64  | 34 |
| Toluene                          | 0.101  | 0.0050             | "     | 0.100  | ND                 | 101  | 30-134             | 1.18  | 30 |
| Ethylbenzene                     | 0.111  | 0.0050             | "     | 0.0992 | ND                 | 112  | 22-153             | 0.243 | 24 |
| m,p-Xylene                       | 0.209  | 0.010              | "     | 0.200  | ND                 | 105  | 10-159             | 0.971 | 68 |
| o-Xylene                         | 0.103  | 0.0050             | "     | 0.0984 | ND                 | 105  | 31-151             | 2.79  | 38 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0364 |                    | "     | 0.0396 |                    | 91.9 | 23-173             |       |    |
| Surrogate: Toluene-d8            | 0.0379 |                    | "     | 0.0400 |                    | 94.6 | 20-170             |       |    |
| Surrogate: 4-Bromofluorobenzene  | 0.0407 |                    | "     | 0.0400 |                    | 102  | 21-167             |       |    |

Summit Scientific

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Joseph J Egry IV For Paul Shrewsbury, President



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

Project: Huwa 11-1, 2  
Project Number: [none]  
Project Manager: Chris Roy

**Reported:**  
11/24/14 12:18

### Notes and Definitions

|     |  |
|-----|--|
| DET | Analyte DETECTED                                     |
| ND  | Analyte NOT DETECTED at or above the reporting limit |
| NR  | Not Reported   |
| dry | Sample results reported on a dry weight basis        |
| RPD | Relative Percent Difference                          |

---

Summit Scientific

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A handwritten signature in black ink, appearing to read 'Joseph J Egry IV'.

---

Joseph J Egry IV For Paul Shrewsbury, President



Items for Project Manager Review

| LabNumber    | Analysis          | Analyte     | Exception                     |
|--------------|-------------------|-------------|-------------------------------|
| 1411216-BS1  | 8260B GBTEXN TXYL | Naphthalene | No spike level                |
| 1411216-MSD1 | 8260B GBTEXN TXYL | Naphthalene | No spike level                |
| 1411216-MS1  | 8260B GBTEXN TXYL | Naphthalene | No spike level                |
|              |                   |             | VERSION 6.12:2015             |
|              |                   |             | Default Report (not modified) |

# Summit Scientific

---

741 Corporate Circle – Suite J ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.374.5933 - fax

January 06, 2015

Chris Roy  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: Huwa 11-1, 2

Enclosed are the results of analyses for samples received by Summit Scientific on 11/24/14 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Joseph J Egry IV". The signature is fluid and cursive, with a small "IV" at the end.

Joseph J Egry IV For Paul Shrewsbury  
President

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

Project: Huwa 11-1, 2  
Project Number: 008314069  
Project Manager: Chris Roy

**Reported:**  
01/06/15 12:31

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| SS09@4'   | 1411176-01    | Soil   | 11/24/14 12:00 | 11/24/14 17:00 |
| SS12@4'   | 1411176-02    | Soil   | 11/24/14 14:00 | 11/24/14 17:00 |
| GW01      | 1411176-03    | Water  | 11/24/14 14:00 | 11/24/14 17:00 |

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Summit Scientific

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---

Joseph J Egry IV For Paul Shrewsbury, President



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

Project: Huwa 11-1, 2  
Project Number: 008314069  
Project Manager: Chris Roy

Reported:  
01/06/15 12:31

# Summit Scientific 1411176

S<sub>2</sub>

741 Corporate Circle, Suite J&K ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-374-5933

Page 1 of 1

Client: LT Environmental Project Manager: Chris Roy  
Address: 4600 West 60th Avenue E-Mail: Chris Roy, Steve Kahn, Rob Rebel, Chuck Greeson  
City/State/Zip: Arvada, CO 80003 Fawn Spangler, Todd Cullum, Justin Jepperson, Jacob Evans  
Phone: 303-433-9788 Fax: 303-374-5933 Project Name: Huwa 11-1, 2  
Sampler Name: D. Asler Project Number: 0083-13062-008314069

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative |                  |      |                 | Matrix      |      |                |                 | Analysis Requested |     |             |     |        |     |         | Special Instructions |
|----|--------------------|--------------|--------------|-----------------|--------------|------------------|------|-----------------|-------------|------|----------------|-----------------|--------------------|-----|-------------|-----|--------|-----|---------|----------------------|
|    |                    |              |              |                 | HCl          | HNO <sub>3</sub> | Nose | Other (Specify) | Groundwater | Soil | Air-Canister # | Other (Specify) | BTEX               | GRO | Naphthalene | DRO | pH, EC | SAR | Arsenic |                      |
| 1  | SS 20' 4'          | 11/24/14     | 1200         | 1               |              |                  |      |                 |             | X    |                |                 |                    | X   | X           | X   | X      |     |         |                      |
| 2  | SS 12' 4'          | 11/24/14     | 1400         | 1               |              |                  |      |                 |             | X    |                |                 |                    | X   | X           | X   | X      |     |         |                      |
| 3  | GW 01              | 11/24/14     | 1400         | 3               |              |                  |      |                 | X           |      |                |                 |                    | X   |             |     |        |     |         |                      |
| 4  |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |     |             |     |        |     |         |                      |
| 5  |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |     |             |     |        |     |         |                      |
| 6  |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |     |             |     |        |     |         |                      |
| 7  |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |     |             |     |        |     |         |                      |
| 8  |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |     |             |     |        |     |         |                      |
| 9  |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |     |             |     |        |     |         |                      |
| 10 |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |     |             |     |        |     |         |                      |

|                                     |                          |                                 |                          |   |               |
|-------------------------------------|--------------------------|---------------------------------|--------------------------|---|---------------|
| Relinquished by: <i>[Signature]</i> | Date/Time: 11/24/14 1700 | Received by: <i>[Signature]</i> | Date/Time: 11/24/14 1700 | Turn Around Time (Check)  | Notes:        |
| Relinquished by:                    | Date/Time:               | Received by:                    | Date/Time:               | Same Day <input checked="" type="checkbox"/> 72 hours                       | Invoice To:   |
| Relinquished by:                    | Date/Time:               | Received by:                    | Date/Time:               | 24 hours  | Fawn Spangler |
| Relinquished by:                    | Date/Time:               | Received by:                    | Date/Time:               | 48 hours  | Jacob Evans   |
| Relinquished by:                    | Date/Time:               | Received by:                    | Date/Time:               | Sample Integrity:   | Todd Cullum   |
|                                     |                          |                                 |                          | Temperature Upon Receipt: 6°C   | LTE           |
|                                     |                          |                                 |                          | Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |               |

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Soil samples reported on a wet-weight basis unless otherwise indicated on results page.

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*[Signature]*

Joseph J Egry IV For Paul Shrewsbury, President



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

Project: Huwa 11-1, 2  
Project Number: 008314069  
Project Manager: Chris Roy

Reported:  
01/06/15 12:31

**SS09@4'**  
**1411176-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 11/24/14 12:00

| Analyte              | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed       | Method | Notes |
|----------------------|-------------|-----------------|-------|----------|---------|----------|----------------|--------|-------|
| <b>C10-C28 (DRO)</b> | <b>1200</b> | 50              | mg/kg | 1        | 1411227 | 11/24/14 | 11/24/14 19:13 | 8015M  |       |

Date Sampled: 11/24/14 12:00

| Analyte                | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|-------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 101 %  | 30-150          |       |          | "     | "        | "        | "      |       |

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 11/24/14 12:00

| Analyte                            | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed       | Method    | Notes |
|------------------------------------|-------------|-----------------|-------|----------|---------|----------|----------------|-----------|-------|
| <b>Naphthalene</b>                 | <b>0.50</b> | 0.010           | mg/kg | 1        | 1411218 | 11/24/14 | 11/24/14 21:38 | EPA 8260B |       |
| Benzene                            | ND          | 0.0020          | "     | "        | "       | "        | "              | "         |       |
| Toluene                            | ND          | 0.0050          | "     | "        | "       | "        | "              | "         |       |
| <b>Ethylbenzene</b>                | <b>2.5</b>  | 0.50            | "     | 100      | "       | "        | 11/24/14 19:12 | "         |       |
| <b>Xylenes (total)</b>             | <b>30</b>   | 1.0             | "     | "        | "       | "        | "              | "         |       |
| <b>Gasoline Range Hydrocarbons</b> | <b>1900</b> | 50              | "     | "        | "       | "        | "              | "         |       |

Date Sampled: 11/24/14 12:00

| Analyte                          | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed       | Method | Notes |
|----------------------------------|--------|-----------------|-------|----------|-------|----------|----------------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 93.1 % | 23-173          |       |          | "     | "        | 11/24/14 21:38 | "      |       |
| Surrogate: Toluene-d8            | 88.3 % | 20-170          |       |          | "     | "        | "              | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 112 %  | 21-167          |       |          | "     | "        | "              | "      |       |

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Joseph J Egry IV For Paul Shrewsbury, President



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

Project: Huwa 11-1, 2  
Project Number: 008314069  
Project Manager: Chris Roy

Reported:  
01/06/15 12:31

**SS12@4'**  
**1411176-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/24/14 14:00**

| Analyte              | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed       | Method | Notes |
|----------------------|-------------|-----------------|-------|----------|---------|----------|----------------|--------|-------|
| <b>C10-C28 (DRO)</b> | <b>1100</b> | 50              | mg/kg | 1        | 1411227 | 11/24/14 | 11/24/14 19:39 | 8015M  |       |

Date Sampled: **11/24/14 14:00**

| Analyte                       | Result       | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|--------------|-----------------|-------|----------|-------|----------|----------|--------|-------|
| <i>Surrogate: o-Terphenyl</i> | <i>101 %</i> | <i>30-150</i>   |       |          | "     | "        | "        | "      |       |

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/24/14 14:00**

| Analyte                            | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed       | Method    | Notes |
|------------------------------------|--------------|-----------------|-------|----------|---------|----------|----------------|-----------|-------|
| <b>Naphthalene</b>                 | <b>0.14</b>  | 0.010           | mg/kg | 1        | 1411218 | 11/24/14 | 11/24/14 21:13 | EPA 8260B |       |
| <b>Benzene</b>                     | <b>0.054</b> | 0.0020          | "     | "        | "       | "        | "              | "         |       |
| Toluene                            | ND           | 0.0050          | "     | "        | "       | "        | "              | "         |       |
| <b>Ethylbenzene</b>                | <b>0.25</b>  | 0.0050          | "     | "        | "       | "        | "              | "         |       |
| <b>Xylenes (total)</b>             | <b>5.5</b>   | 1.0             | "     | 100      | "       | "        | 11/24/14 19:36 | "         |       |
| <b>Gasoline Range Hydrocarbons</b> | <b>380</b>   | 50              | "     | "        | "       | "        | "              | "         |       |

Date Sampled: **11/24/14 14:00**

| Analyte                                 | Result        | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed              | Method | Notes |
|---|---------------|-----------------|-------|----------|-------|----------|-----------------------|--------|-------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>110 %</i>  | <i>23-173</i>   |       |          | "     | "        | <i>11/24/14 21:13</i> | "      |       |
| <i>Surrogate: Toluene-d8</i>            | <i>85.1 %</i> | <i>20-170</i>   |       |          | "     | "        | "                     | "      |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>99.4 %</i> | <i>21-167</i>   |       |          | "     | "        | "                     | "      |       |

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Joseph J Egry IV For Paul Shrewsbury, President



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

Project: Huwa 11-1, 2  
Project Number: 008314069  
Project Manager: Chris Roy

Reported:  
01/06/15 12:31

**GW01**  
**1411176-03 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **11/24/14 14:00**

| Analyte                | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed       | Method    | Notes |
|------------------------|-------------|-----------------|-------|----------|---------|----------|----------------|-----------|-------|
| <b>Benzene</b>         | <b>45</b>   | 1.0             | ug/l  | 1        | 1411225 | 11/24/14 | 11/24/14 19:40 | EPA 8260B |       |
| <b>Toluene</b>         | <b>23</b>   | 1.0             | "     | "        | "       | "        | "              | "         |       |
| <b>Ethylbenzene</b>    | <b>170</b>  | 1.0             | "     | "        | "       | "        | "              | "         |       |
| <b>Xylenes (total)</b> | <b>2200</b> | 100             | "     | 100      | "       | "        | 11/24/14 18:48 | "         |       |

Date Sampled: **11/24/14 14:00**

| Analyte                                 | Result        | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed              | Method | Notes |
|---|---------------|-----------------|-------|----------|-------|----------|-----------------------|--------|-------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>92.3 %</i> | <i>37-154</i>   |       |          | "     | "        | <i>11/24/14 19:40</i> | "      |       |
| <i>Surrogate: Toluene-d8</i>            | <i>112 %</i>  | <i>45-149</i>   |       |          | "     | "        | "                     | "      |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>102 %</i>  | <i>45-146</i>   |       |          | "     | "        | "                     | "      |       |

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Joseph J Egry IV For Paul Shrewsbury, President





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

Project: Huwa 11-1, 2  
Project Number: 008314069  
Project Manager: Chris Roy

**Reported:**  
01/06/15 12:31

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

| Analyte | Reporting |       |       | Spike | Source |      | %REC   |     | RPD   |       |
|---------|-----------|-------|-------|-------|--------|------|--------|-----|-------|-------|
|         | Result    | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

**Batch 1411227 - EPA 3550A**

**Blank (1411227-BLK1)**

Prepared & Analyzed: 11/24/14

|                        |      |    |       |      |  |     |        |  |  |  |
|------------------------|------|----|-------|------|--|-----|--------|--|--|--|
| C10-C28 (DRO)          | ND   | 50 | mg/kg |      |  |     |        |  |  |  |
| Surrogate: o-Terphenyl | 12.8 |    | "     | 12.2 |  | 105 | 30-150 |  |  |  |

**LCS (1411227-BS1)**

Prepared & Analyzed: 11/24/14

|                        |      |    |       |      |  |      |        |  |  |  |
|------------------------|------|----|-------|------|--|------|--------|--|--|--|
| C10-C28 (DRO)          | 458  | 50 | mg/kg | 501  |  | 91.4 | 73-134 |  |  |  |
| Surrogate: o-Terphenyl | 12.6 |    | "     | 12.2 |  | 104  | 30-150 |  |  |  |

**Matrix Spike (1411227-MS1)**

**Source: 1411171-01**

Prepared & Analyzed: 11/24/14

|                        |      |    |       |      |  |      |        |  |  |  |
|------------------------|------|----|-------|------|--|------|--------|--|--|--|
| C10-C28 (DRO)          | 484  | 50 | mg/kg | 488  |  | 99.1 | 50-148 |  |  |  |
| Surrogate: o-Terphenyl | 12.8 |    | "     | 11.9 |  | 108  | 30-150 |  |  |  |

**Matrix Spike Dup (1411227-MSD1)**

**Source: 1411171-01**

Prepared & Analyzed: 11/24/14

|                        |      |    |       |      |  |      |        |      |    |  |
|------------------------|------|----|-------|------|--|------|--------|------|----|--|
| C10-C28 (DRO)          | 441  | 50 | mg/kg | 464  |  | 95.1 | 50-148 | 9.25 | 13 |  |
| Surrogate: o-Terphenyl | 11.5 |    | "     | 11.3 |  | 101  | 30-150 |      |    |  |

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Joseph J Egry IV For Paul Shrewsbury, President



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

Project: Huwa 11-1, 2  
Project Number: 008314069  
Project Manager: Chris Roy

Reported:  
01/06/15 12:31

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

| Analyte | Reporting |       |       | Spike | Source |      | %REC   |     | RPD   |       |
|---------|-----------|-------|-------|-------|--------|------|--------|-----|-------|-------|
|         | Result    | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

#### Batch 1411218 - EPA 5030 Soil MS

##### Blank (1411218-BLK1)

Prepared & Analyzed: 11/24/14

|                                  |        |        |       |        |  |      |        |  |  |  |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Naphthalene                      | ND     | 0.010  | mg/kg |        |  |      |        |  |  |  |
| Benzene                          | ND     | 0.0020 | "     |        |  |      |        |  |  |  |
| Toluene                          | ND     | 0.0050 | "     |        |  |      |        |  |  |  |
| Ethylbenzene                     | ND     | 0.0050 | "     |        |  |      |        |  |  |  |
| Xylenes (total)                  | ND     | 0.010  | "     |        |  |      |        |  |  |  |
| Gasoline Range Hydrocarbons      | ND     | 0.50   | "     |        |  |      |        |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0398 |        | "     | 0.0396 |  | 100  | 23-173 |  |  |  |
| Surrogate: Toluene-d8            | 0.0402 |        | "     | 0.0400 |  | 100  | 20-170 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.0390 |        | "     | 0.0400 |  | 97.4 | 21-167 |  |  |  |

##### LCS (1411218-BS1)

Prepared & Analyzed: 11/24/14

|                                  |        |        |       |        |  |      |        |  |  |  |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Naphthalene                      | 0.149  | 0.010  | mg/kg | 0.150  |  | 99.5 | 66-138 |  |  |  |
| Benzene                          | 0.138  | 0.0020 | "     | 0.150  |  | 92.2 | 58-130 |  |  |  |
| Toluene                          | 0.147  | 0.0050 | "     | 0.150  |  | 98.1 | 61-134 |  |  |  |
| Ethylbenzene                     | 0.147  | 0.0050 | "     | 0.150  |  | 98.3 | 74-139 |  |  |  |
| m,p-Xylene                       | 0.344  | 0.010  | "     | 0.300  |  | 115  | 73-137 |  |  |  |
| o-Xylene                         | 0.170  | 0.0050 | "     | 0.150  |  | 113  | 73-141 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0354 |        | "     | 0.0396 |  | 89.4 | 23-173 |  |  |  |
| Surrogate: Toluene-d8            | 0.0400 |        | "     | 0.0400 |  | 100  | 20-170 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.0422 |        | "     | 0.0400 |  | 106  | 21-167 |  |  |  |

##### Matrix Spike (1411218-MS1)

Source: 1411155-01

Prepared & Analyzed: 11/24/14

|                                  |        |        |       |        |         |      |        |  |  |  |
|----------------------------------|--------|--------|-------|--------|---------|------|--------|--|--|--|
| Naphthalene                      | 0.181  | 0.010  | mg/kg | 0.150  | 0.00434 | 117  | 10-158 |  |  |  |
| Benzene                          | 0.159  | 0.0020 | "     | 0.150  | ND      | 106  | 30-131 |  |  |  |
| Toluene                          | 0.152  | 0.0050 | "     | 0.150  | ND      | 101  | 30-134 |  |  |  |
| Ethylbenzene                     | 0.161  | 0.0050 | "     | 0.150  | ND      | 107  | 22-153 |  |  |  |
| m,p-Xylene                       | 0.318  | 0.010  | "     | 0.300  | 0.00221 | 105  | 10-159 |  |  |  |
| o-Xylene                         | 0.159  | 0.0050 | "     | 0.150  | 0.00140 | 105  | 31-151 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0360 |        | "     | 0.0396 |         | 90.8 | 23-173 |  |  |  |
| Surrogate: Toluene-d8            | 0.0398 |        | "     | 0.0400 |         | 99.4 | 20-170 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.0411 |        | "     | 0.0400 |         | 103  | 21-167 |  |  |  |

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Joseph J Egry IV For Paul Shrewsbury, President



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

Project: Huwa 11-1, 2  
Project Number: 008314069  
Project Manager: Chris Roy

Reported:  
01/06/15 12:31

## Volatile Organic Compounds by EPA Method 8260B - Quality Control

### Summit Scientific

| Analyte | Reporting |       |       | Spike | Source |      | %REC   |     | RPD   |       |
|---------|-----------|-------|-------|-------|--------|------|--------|-----|-------|-------|
|         | Result    | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

#### Batch 1411218 - EPA 5030 Soil MS

| Matrix Spike Dup (1411218-MSD1)  |        |        |       | Source: 1411155-01 |         | Prepared & Analyzed: 11/24/14 |        |      |    |  |
|----------------------------------|--------|--------|-------|--------------------|---------|-------------------------------|--------|------|----|--|
| Naphthalene                      | 0.205  | 0.010  | mg/kg | 0.150              | 0.00434 | 134                           | 10-158 | 12.6 | 42 |  |
| Benzene                          | 0.163  | 0.0020 | "     | 0.150              | ND      | 109                           | 30-131 | 2.68 | 34 |  |
| Toluene                          | 0.160  | 0.0050 | "     | 0.150              | ND      | 107                           | 30-134 | 5.36 | 30 |  |
| Ethylbenzene                     | 0.170  | 0.0050 | "     | 0.150              | ND      | 114                           | 22-153 | 5.73 | 24 |  |
| m,p-Xylene                       | 0.335  | 0.010  | "     | 0.300              | 0.00221 | 111                           | 10-159 | 5.15 | 68 |  |
| o-Xylene                         | 0.168  | 0.0050 | "     | 0.150              | 0.00140 | 111                           | 31-151 | 5.78 | 38 |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0378 |        | "     | 0.0396             |         | 95.5                          | 23-173 |      |    |  |
| Surrogate: Toluene-d8            | 0.0392 |        | "     | 0.0400             |         | 98.0                          | 20-170 |      |    |  |
| Surrogate: 4-Bromofluorobenzene  | 0.0412 |        | "     | 0.0400             |         | 103                           | 21-167 |      |    |  |

#### Batch 1411225 - EPA 5030 Water MS

| Blank (1411225-BLK1)             |      |     |      | Prepared & Analyzed: 11/24/14 |  |      |        |  |  |  |
|----------------------------------|------|-----|------|-------------------------------|--|------|--------|--|--|--|
| Benzene                          | ND   | 1.0 | ug/l |                               |  |      |        |  |  |  |
| Toluene                          | ND   | 1.0 | "    |                               |  |      |        |  |  |  |
| Ethylbenzene                     | ND   | 1.0 | "    |                               |  |      |        |  |  |  |
| Xylenes (total)                  | ND   | 1.0 | "    |                               |  |      |        |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 12.4 |     | "    | 13.2                          |  | 93.6 | 37-154 |  |  |  |
| Surrogate: Toluene-d8            | 13.0 |     | "    | 13.3                          |  | 97.7 | 45-149 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 13.3 |     | "    | 13.3                          |  | 100  | 45-146 |  |  |  |
| LCS (1411225-BS1)                |      |     |      | Prepared & Analyzed: 11/24/14 |  |      |        |  |  |  |
| Benzene                          | 33.9 | 1.0 | ug/l | 33.3                          |  | 102  | 51-132 |  |  |  |
| Toluene                          | 33.8 | 1.0 | "    | 33.3                          |  | 101  | 51-138 |  |  |  |
| Ethylbenzene                     | 35.9 | 1.0 | "    | 33.1                          |  | 109  | 58-146 |  |  |  |
| m,p-Xylene                       | 68.4 | 2.0 | "    | 66.5                          |  | 103  | 57-144 |  |  |  |
| o-Xylene                         | 33.6 | 1.0 | "    | 32.8                          |  | 103  | 53-146 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 12.4 |     | "    | 13.2                          |  | 94.2 | 37-154 |  |  |  |
| Surrogate: Toluene-d8            | 13.2 |     | "    | 13.3                          |  | 99.1 | 45-149 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 13.4 |     | "    | 13.3                          |  | 100  | 45-146 |  |  |  |

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Joseph J Egry IV For Paul Shrewsbury, President



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

Project: Huwa 11-1, 2  
Project Number: 008314069  
Project Manager: Chris Roy

Reported:  
01/06/15 12:31

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

| Analyte | Reporting |       |       | Spike | Source |      | %REC   |     | RPD   |       |
|---------|-----------|-------|-------|-------|--------|------|--------|-----|-------|-------|
|         | Result    | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

**Batch 1411225 - EPA 5030 Water MS**

| Matrix Spike (1411225-MS1)       |      | Source: 1411170-01 |      |      | Prepared & Analyzed: 11/24/14 |      |        |  |  |  |
|----------------------------------|------|--------------------|------|------|-------------------------------|------|--------|--|--|--|
| Benzene                          | 33.8 | 1.0                | ug/l | 33.3 | ND                            | 101  | 34-141 |  |  |  |
| Toluene                          | 34.3 | 1.0                | "    | 33.3 | ND                            | 103  | 27-151 |  |  |  |
| Ethylbenzene                     | 36.9 | 1.0                | "    | 33.1 | ND                            | 111  | 29-160 |  |  |  |
| m,p-Xylene                       | 70.2 | 2.0                | "    | 66.5 | ND                            | 105  | 20-166 |  |  |  |
| o-Xylene                         | 34.6 | 1.0                | "    | 32.8 | ND                            | 106  | 33-159 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 12.4 |                    | "    | 13.2 |                               | 93.9 | 37-154 |  |  |  |
| Surrogate: Toluene-d8            | 12.8 |                    | "    | 13.3 |                               | 95.9 | 45-149 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 13.3 |                    | "    | 13.3 |                               | 99.5 | 45-146 |  |  |  |

| Matrix Spike Dup (1411225-MSD1)  |      | Source: 1411170-01 |      |      | Prepared & Analyzed: 11/24/14 |      |        |       |    |  |
|----------------------------------|------|--------------------|------|------|-------------------------------|------|--------|-------|----|--|
| Benzene                          | 34.3 | 1.0                | ug/l | 33.3 | ND                            | 103  | 34-141 | 1.59  | 32 |  |
| Toluene                          | 34.9 | 1.0                | "    | 33.3 | ND                            | 105  | 27-151 | 1.79  | 25 |  |
| Ethylbenzene                     | 36.4 | 1.0                | "    | 33.1 | ND                            | 110  | 29-160 | 1.37  | 50 |  |
| m,p-Xylene                       | 69.7 | 2.0                | "    | 66.5 | ND                            | 105  | 20-166 | 0.715 | 36 |  |
| o-Xylene                         | 34.1 | 1.0                | "    | 32.8 | ND                            | 104  | 33-159 | 1.63  | 26 |  |
| Surrogate: 1,2-Dichloroethane-d4 | 13.0 |                    | "    | 13.2 |                               | 98.6 | 37-154 |       |    |  |
| Surrogate: Toluene-d8            | 13.4 |                    | "    | 13.3 |                               | 100  | 45-149 |       |    |  |
| Surrogate: 4-Bromofluorobenzene  | 13.2 |                    | "    | 13.3 |                               | 99.4 | 45-146 |       |    |  |

Summit Scientific

*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.*

Joseph J Egry IV For Paul Shrewsbury, President



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

Project: Huwa 11-1, 2  
Project Number: 008314069  
Project Manager: Chris Roy

**Reported:**  
01/06/15 12:31

### Notes and Definitions

|     |  |
|-----|--|
| DET | Analyte DETECTED                                     |
| ND  | Analyte NOT DETECTED at or above the reporting limit |
| NR  | Not Reported   |
| dry | Sample results reported on a dry weight basis        |
| RPD | Relative Percent Difference                          |

---

Summit Scientific

*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.*

A handwritten signature in black ink, appearing to read 'Joseph J Egry IV'.

---

Joseph J Egry IV For Paul Shrewsbury, President

# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

November 30, 2014

Chris Roy  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: Huwa 11-1, 2

Enclosed are the results of analyses for samples received by Summit Scientific on 11/26/14 17:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury  
President



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

Project: Huwa 11-1, 2  
Project Number: 008314069  
Project Manager: Chris Roy

**Reported:**  
11/30/14 15:53

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| SS19@4'   | 1411189-01    | Soil   | 11/26/14 09:30 | 11/26/14 17:15 |
| SS20@4'   | 1411189-02    | Soil   | 11/26/14 11:00 | 11/26/14 17:15 |

Summit Scientific

A handwritten signature in black ink, appearing to be 'MSM'.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*





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

Project: Huwa 11-1, 2  
Project Number: 008314069  
Project Manager: Chris Roy

Reported:  
11/30/14 15:53

# Summit Scientific 1411189

S<sub>2</sub>

741 Corporate Circle, Suite J&K ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-374-5933

Page 1 of 1

Client: LT Environmental, Inc.

Project Manager: Chris Roy

Address: 4600 West 60th Ave

E-Mail: Noble Group

City/State/Zip: Arvada, CO 80003

Phone: 303-433-9788

Fax: 303-433-1432

Project Name: Huwa 11-1, 2

Sampler Name: D. Hester

Project Number: 008314069

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative |                  |      |                 | Matrix      |      |                |                 | Analysis Requested |         |       |  | Special Instructions |  |
|----|--------------------|--------------|--------------|-----------------|--------------|------------------|------|-----------------|-------------|------|----------------|-----------------|--------------------|---------|-------|--|----------------------|--|
|    |                    |              |              |                 | HCl          | HNO <sub>3</sub> | None | Other (Specify) | Groundwater | Soil | Air-Canister # | Other (Specify) | DTEX               | GRD DRG | Depth |  |                      |  |
| 1  | SS1904'            | 11/26/14     | 0930         | 1               |              |                  |      |                 |             |      |                |                 |                    |         |       |  |                      |  |
| 2  | SS2004'            | 11/26/14     | 1100         | 1               |              |                  |      |                 |             |      |                |                 |                    |         |       |  |                      |  |
| 3  |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |         |       |  |                      |  |
| 4  |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |         |       |  |                      |  |
| 5  |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |         |       |  |                      |  |
| 6  |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |         |       |  |                      |  |
| 7  |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |         |       |  |                      |  |
| 8  |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |         |       |  |                      |  |
| 9  |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |         |       |  |                      |  |
| 10 |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |         |       |  |                      |  |

|                  |                          |              |                          |  |                           |
|------------------|--------------------------|--------------|--------------------------|--|---------------------------|
| Relinquished by: | Date/Time: 11/26/14 1600 | Received by: | Date/Time: 11/26/14 1715 | Turn Around Time (Check)   | Notes:                    |
| Relinquished by: | Date/Time:               | Received by: | Date/Time:               | Same Day <input checked="" type="checkbox"/> 72 hours <input type="checkbox"/> | Sam Monday<br>Dec 1, 2014 |
| Relinquished by: | Date/Time:               | Received by: | Date/Time:               | 24 hours <input type="checkbox"/> Standard <input type="checkbox"/>            |                           |
| Relinquished by: | Date/Time:               | Received by: | Date/Time:               | 48 hours <input type="checkbox"/>  |                           |
|                  |                          |              |                          | Sample Integrity:  |                           |
|                  |                          |              |                          | Temperature Upon Receipt: 3°C  |                           |
|                  |                          |              |                          | Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No          |                           |

www.s2scientific.com



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

Project: Huwa 11-1, 2  
Project Number: 008314069  
Project Manager: Chris Roy

Reported:  
11/30/14 15:53

SS19@4'  
1411189-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 11/26/14 09:30

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|--------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | 1411254 | 11/28/14 | 11/29/14 | 8015M  |       |

Date Sampled: 11/26/14 09:30

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl |        | 96.0 %          | 30-150 |          | "     | "        | "        | "      |       |

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/26/14 09:30

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Naphthalene                 | ND     | 0.010           | mg/kg | 1        | 1411253 | 11/28/14 | 11/29/14 | EPA 8260B |       |
| Benzene                     | ND     | 0.0020          | "     | "        | "       | "        | "        | "         |       |
| Toluene                     | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | ND     | 0.010           | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | ND     | 0.50            | "     | "        | "       | "        | "        | "         |       |

Date Sampled: 11/26/14 09:30

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 |        | 123 %           | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 101 %           | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 101 %           | 21-167 |          | "     | "        | "        | "      |       |

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Huwa 11-1, 2  
Project Number: 008314069  
Project Manager: Chris Roy

Reported:  
11/30/14 15:53

SS20@4'  
1411189-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 11/26/14 11:00

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|--------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | 1411254 | 11/28/14 | 11/29/14 | 8015M  |       |

Date Sampled: 11/26/14 11:00

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl |        | 97.9 %          | 30-150 |          | "     | "        | "        | "      |       |

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 11/26/14 11:00

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Naphthalene                 | ND     | 0.010           | mg/kg | 1        | 1411253 | 11/28/14 | 11/29/14 | EPA 8260B |       |
| Benzene                     | ND     | 0.0020          | "     | "        | "       | "        | "        | "         |       |
| Toluene                     | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | ND     | 0.010           | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | ND     | 0.50            | "     | "        | "       | "        | "        | "         |       |

Date Sampled: 11/26/14 11:00

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 |        | 115 %           | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 100 %           | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 102 %           | 21-167 |          | "     | "        | "        | "      |       |

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Huwa 11-1, 2  
Project Number: 008314069  
Project Manager: Chris Roy

**Reported:**  
11/30/14 15:53

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

| Analyte | Reporting |       |       | Spike | Source |      | %REC   |     | RPD   |       |
|---------|-----------|-------|-------|-------|--------|------|--------|-----|-------|-------|
|         | Result    | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

**Batch 1411254 - EPA 3550A**

**Blank (1411254-BLK1)**

Prepared & Analyzed: 11/28/14

|                        |      |    |       |      |  |     |        |  |  |  |
|------------------------|------|----|-------|------|--|-----|--------|--|--|--|
| C10-C28 (DRO)          | ND   | 50 | mg/kg |      |  |     |        |  |  |  |
| Surrogate: o-Terphenyl | 12.9 |    | "     | 12.2 |  | 106 | 30-150 |  |  |  |

**LCS (1411254-BS1)**

Prepared & Analyzed: 11/28/14

|                        |      |    |       |      |  |     |        |  |  |  |
|------------------------|------|----|-------|------|--|-----|--------|--|--|--|
| C10-C28 (DRO)          | 504  | 50 | mg/kg | 501  |  | 101 | 73-134 |  |  |  |
| Surrogate: o-Terphenyl | 12.5 |    | "     | 12.2 |  | 102 | 30-150 |  |  |  |

**Matrix Spike (1411254-MS1)**

Source: 1411188-01

Prepared & Analyzed: 11/28/14

|                        |      |    |       |      |      |      |        |  |  |  |
|------------------------|------|----|-------|------|------|------|--------|--|--|--|
| C10-C28 (DRO)          | 462  | 50 | mg/kg | 453  | 16.5 | 98.4 | 50-148 |  |  |  |
| Surrogate: o-Terphenyl | 11.0 |    | "     | 11.0 |      | 100  | 30-150 |  |  |  |

**Matrix Spike Dup (1411254-MSD1)**

Source: 1411188-01

Prepared & Analyzed: 11/28/14

|                        |      |    |       |      |      |     |        |      |    |  |
|------------------------|------|----|-------|------|------|-----|--------|------|----|--|
| C10-C28 (DRO)          | 490  | 50 | mg/kg | 454  | 16.5 | 104 | 50-148 | 5.90 | 13 |  |
| Surrogate: o-Terphenyl | 11.7 |    | "     | 11.1 |      | 106 | 30-150 |      |    |  |

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Huwa 11-1, 2  
Project Number: 008314069  
Project Manager: Chris Roy

Reported:  
11/30/14 15:53

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

| Analyte | Reporting |       |       | Spike | Source |      | %REC   |     | RPD   |       |
|---------|-----------|-------|-------|-------|--------|------|--------|-----|-------|-------|
|         | Result    | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

**Batch 1411253 - EPA 5030 Soil MS**

**Blank (1411253-BLK1)**

Prepared: 11/28/14 Analyzed: 11/29/14

|   |               |        |          |               |  |             |               |  |  |  |
|---|---------------|--------|----------|---------------|--|-------------|---------------|--|--|--|
| Naphthalene                             | ND            | 0.010  | mg/kg    |               |  |             |               |  |  |  |
| Benzene                                 | ND            | 0.0020 | "        |               |  |             |               |  |  |  |
| Toluene                                 | ND            | 0.0050 | "        |               |  |             |               |  |  |  |
| Ethylbenzene                            | ND            | 0.0050 | "        |               |  |             |               |  |  |  |
| Xylenes (total)                         | ND            | 0.010  | "        |               |  |             |               |  |  |  |
| Gasoline Range Hydrocarbons             | ND            | 0.50   | "        |               |  |             |               |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0422</i> |        | <i>"</i> | <i>0.0396</i> |  | <i>107</i>  | <i>23-173</i> |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | <i>0.0388</i> |        | <i>"</i> | <i>0.0400</i> |  | <i>96.9</i> | <i>20-170</i> |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>0.0398</i> |        | <i>"</i> | <i>0.0400</i> |  | <i>99.4</i> | <i>21-167</i> |  |  |  |

**LCS (1411253-BS1)**

Prepared: 11/28/14 Analyzed: 11/29/14

|   |               |        |          |               |  |             |               |  |  |  |
|---|---------------|--------|----------|---------------|--|-------------|---------------|--|--|--|
| Naphthalene                             | ND            | 0.010  | mg/kg    |               |  |             | 66-138        |  |  |  |
| Benzene                                 | 0.0906        | 0.0020 | "        | 0.100         |  | 90.6        | 58-130        |  |  |  |
| Toluene                                 | 0.0871        | 0.0050 | "        | 0.100         |  | 87.1        | 61-134        |  |  |  |
| Ethylbenzene                            | 0.0936        | 0.0050 | "        | 0.0992        |  | 94.3        | 74-139        |  |  |  |
| m,p-Xylene                              | 0.181         | 0.010  | "        | 0.200         |  | 90.8        | 73-137        |  |  |  |
| o-Xylene                                | 0.0946        | 0.0050 | "        | 0.0984        |  | 96.2        | 73-141        |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0429</i> |        | <i>"</i> | <i>0.0396</i> |  | <i>108</i>  | <i>23-173</i> |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | <i>0.0401</i> |        | <i>"</i> | <i>0.0400</i> |  | <i>100</i>  | <i>20-170</i> |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>0.0396</i> |        | <i>"</i> | <i>0.0400</i> |  | <i>99.1</i> | <i>21-167</i> |  |  |  |

**Matrix Spike (1411253-MS1)**

Source: 1411188-01

Prepared: 11/28/14 Analyzed: 11/29/14

|   |               |        |          |               |    |             |               |  |  |  |
|---|---------------|--------|----------|---------------|----|-------------|---------------|--|--|--|
| Naphthalene                             | ND            | 0.010  | mg/kg    |               | ND |             | 10-158        |  |  |  |
| Benzene                                 | 0.0843        | 0.0020 | "        | 0.0919        | ND | 91.8        | 30-131        |  |  |  |
| Toluene                                 | 0.0817        | 0.0050 | "        | 0.0919        | ND | 88.9        | 30-134        |  |  |  |
| Ethylbenzene                            | 0.0893        | 0.0050 | "        | 0.0912        | ND | 98.0        | 22-153        |  |  |  |
| m,p-Xylene                              | 0.173         | 0.010  | "        | 0.183         | ND | 94.4        | 10-159        |  |  |  |
| o-Xylene                                | 0.0909        | 0.0050 | "        | 0.0904        | ND | 101         | 31-151        |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0398</i> |        | <i>"</i> | <i>0.0364</i> |    | <i>109</i>  | <i>23-173</i> |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | <i>0.0366</i> |        | <i>"</i> | <i>0.0368</i> |    | <i>99.7</i> | <i>20-170</i> |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>0.0363</i> |        | <i>"</i> | <i>0.0368</i> |    | <i>98.8</i> | <i>21-167</i> |  |  |  |

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Huwa 11-1, 2  
Project Number: 008314069  
Project Manager: Chris Roy

**Reported:**  
11/30/14 15:53

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

| Analyte | Reporting |       |       | Spike | Source |      | %REC   |     | RPD   |       |
|---------|-----------|-------|-------|-------|--------|------|--------|-----|-------|-------|
|         | Result    | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

**Batch 1411253 - EPA 5030 Soil MS**

| Matrix Spike Dup (1411253-MSD1)  |        | Source: 1411188-01 |       |        | Prepared: 11/28/14 |      | Analyzed: 11/29/14 |       |  |    |
|----------------------------------|--------|--------------------|-------|--------|--------------------|------|--------------------|-------|--|----|
| Naphthalene                      | ND     | 0.010              | mg/kg |        | ND                 |      | 10-158             |       |  | 42 |
| Benzene                          | 0.0850 | 0.0020             | "     | 0.0916 | ND                 | 92.8 | 30-131             | 0.803 |  | 34 |
| Toluene                          | 0.0821 | 0.0050             | "     | 0.0916 | ND                 | 89.6 | 30-134             | 0.440 |  | 30 |
| Ethylbenzene                     | 0.0905 | 0.0050             | "     | 0.0908 | ND                 | 99.7 | 22-153             | 1.35  |  | 24 |
| m,p-Xylene                       | 0.175  | 0.010              | "     | 0.183  | ND                 | 95.5 | 10-159             | 0.821 |  | 68 |
| o-Xylene                         | 0.0927 | 0.0050             | "     | 0.0901 | ND                 | 103  | 31-151             | 1.88  |  | 38 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0398 |                    | "     | 0.0363 |                    | 110  | 23-173             |       |  |    |
| Surrogate: Toluene-d8            | 0.0362 |                    | "     | 0.0366 |                    | 98.8 | 20-170             |       |  |    |
| Surrogate: 4-Bromofluorobenzene  | 0.0365 |                    | "     | 0.0366 |                    | 99.7 | 21-167             |       |  |    |

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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

Project: Huwa 11-1, 2

Project Number: 008314069  
Project Manager: Chris Roy

**Reported:**  
11/30/14 15:53

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

---

Summit Scientific

A handwritten signature in black ink, appearing to be 'MSM'.

*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.*



# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 02, 2014

Chris Roy  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: Huwa 11-1, 2

Enclosed are the results of analyses for samples received by Summit Scientific on 12/01/14 16:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury  
President



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

Project: Huwa 11-1, 2

Project Number: 008314068  
Project Manager: Chris Roy

**Reported:**  
12/02/14 06:34

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| SS21@3'   | 1412002-01    | Soil   | 12/01/14 09:30 | 12/01/14 16:10 |
| SS22@3'   | 1412002-02    | Soil   | 12/01/14 10:00 | 12/01/14 16:10 |
| SS23@3'   | 1412002-03    | Soil   | 12/01/14 10:30 | 12/01/14 16:10 |
| SS24@3'   | 1412002-04    | Soil   | 12/01/14 13:00 | 12/01/14 16:10 |
| SS25@3'   | 1412002-05    | Soil   | 12/01/14 13:30 | 12/01/14 16:10 |

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

Project: Huwa 11-1, 2

Project Number: 008314068  
Project Manager: Chris Roy

Reported:  
12/02/14 06:34

# Summit Scientific 1412002

S<sub>2</sub>

741 Corporate Circle, Suite J&K ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-374-5933

Page 1 of 1

Client: LT Environmental, Inc. Project Manager: Chris Roy  
Address: 4600 West 60th Ave E-Mail: Doble group  
City/State/Zip: Arvada, CO 80003  
Phone: 303-433-9788 Fax: 303-433-1432 Project Name: Huwa 11-1, 2  
Sampler Name: D. Hasker Project Number: 008314068

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative |                  |      |                 | Matrix      |      |                |                 | Analysis Requested |     |     |      | Special Instructions |
|----|--------------------|--------------|--------------|-----------------|--------------|------------------|------|-----------------|-------------|------|----------------|-----------------|--------------------|-----|-----|------|----------------------|
|    |                    |              |              |                 | HCl          | HNO <sub>3</sub> | None | Other (Specify) | Groundwater | Soil | Air-Canister # | Other (Specify) | BTEX               | Chl | DRO | NegH |                      |
| 1  | SS2103'            | 12/1/14      | 0930         | 1               |              |                  |      |                 |             | X    |                |                 |                    | X   | X   | X    |                      |
| 2  | SS2203'            | ↓            | 1000         | 1               |              |                  |      |                 |             |      |                |                 |                    |     |     |      |                      |
| 3  | SS2303'            | ↓            | 1030         | 1               |              |                  |      |                 |             |      |                |                 |                    |     |     |      |                      |
| 4  | SS2403'            | ↓            | 1300         | 1               |              |                  |      |                 |             |      |                |                 |                    |     |     |      |                      |
| 5  | SS2503'            | ↓            | 1330         | 1               |              |                  |      |                 |             |      |                |                 |                    |     |     |      |                      |
| 6  |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |     |     |      |                      |
| 7  |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |     |     |      |                      |
| 8  |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |     |     |      |                      |
| 9  |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |     |     |      |                      |
| 10 |                    |              |              |                 |              |                  |      |                 |             |      |                |                 |                    |     |     |      |                      |

|                             |                           |                        |                                |   |        |
|-----------------------------|---------------------------|------------------------|--------------------------------|---|--------|
| Relinquished by: <u>SHH</u> | Date/Time: <u>12/1/14</u> | Received by: <u>MR</u> | Date/Time: <u>12/1/14 1615</u> | Turn Around Time (Check)<br>Same Day <u>X</u> 72 hours —<br>24 hours — Standard —<br>48 hours — | Notes: |
| Relinquished by:            | Date/Time:                | Received by:           | Date/Time:                     | Sample Integrity:<br>Temperature Upon Receipt: <u>4°C</u><br>Intact: <u>(Yes)</u> No            |        |
| Relinquished by:            | Date/Time:                | Received by:           | Date/Time:                     |   |        |

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

Project: Huwa 11-1, 2

Project Number: 008314068  
Project Manager: Chris Roy

Reported:  
12/02/14 06:34

SS21@3'  
1412002-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/01/14 09:30

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|--------|-------|
| C10-C28 (DRO) | 140    | 50              | mg/kg | 1        | 1412007 | 12/01/14 | 12/01/14 | 8015M  |       |

Date Sampled: 12/01/14 09:30

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl |        | 107 %           | 30-150 |          | "     | "        | "        | "      |       |

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/01/14 09:30

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Naphthalene                 | 0.010  | 0.010           | mg/kg | 1        | 1412010 | 12/01/14 | 12/01/14 | EPA 8260B |       |
| Benzene                     | ND     | 0.0020          | "     | "        | "       | "        | "        | "         |       |
| Toluene                     | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | 0.0095 | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | 0.24   | 0.010           | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | 11     | 0.50            | "     | "        | "       | "        | "        | "         |       |

Date Sampled: 12/01/14 09:30

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 |        | 97.7 %          | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 91.3 %          | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 124 %           | 21-167 |          | "     | "        | "        | "      |       |

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

Project: Huwa 11-1, 2  
Project Number: 008314068  
Project Manager: Chris Roy

**Reported:**  
12/02/14 06:34

**SS22@3'**  
**1412002-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 12/01/14 10:00

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|--------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | 1412007 | 12/01/14 | 12/01/14 | 8015M  |       |

Date Sampled: 12/01/14 10:00

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl |        | 103 %           | 30-150 |          | "     | "        | "        | "      |       |

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 12/01/14 10:00

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Naphthalene                 | ND     | 0.010           | mg/kg | 1        | 1412010 | 12/01/14 | 12/01/14 | EPA 8260B |       |
| Benzene                     | ND     | 0.0020          | "     | "        | "       | "        | "        | "         |       |
| Toluene                     | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | ND     | 0.010           | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | ND     | 0.50            | "     | "        | "       | "        | "        | "         |       |

Date Sampled: 12/01/14 10:00

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 |        | 117 %           | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 101 %           | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 100 %           | 21-167 |          | "     | "        | "        | "      |       |

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

Project: Huwa 11-1, 2

Project Number: 008314068  
Project Manager: Chris Roy

**Reported:**  
12/02/14 06:34

**SS23@3'**  
**1412002-03 (Soil)**

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/01/14 10:30

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|--------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | 1412007 | 12/01/14 | 12/01/14 | 8015M  |       |

Date Sampled: 12/01/14 10:30

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl |        | 104 %           | 30-150 |          | "     | "        | "        | "      |       |

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/01/14 10:30

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Naphthalene                 | ND     | 0.010           | mg/kg | 1        | 1412010 | 12/01/14 | 12/01/14 | EPA 8260B |       |
| Benzene                     | ND     | 0.0020          | "     | "        | "       | "        | "        | "         |       |
| Toluene                     | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | ND     | 0.010           | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | ND     | 0.50            | "     | "        | "       | "        | "        | "         |       |

Date Sampled: 12/01/14 10:30

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 |        | 97.3 %          | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 91.5 %          | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 90.6 %          | 21-167 |          | "     | "        | "        | "      |       |

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

Project: Huwa 11-1, 2  
Project Number: 008314068  
Project Manager: Chris Roy

Reported:  
12/02/14 06:34

**SS24@3'**  
**1412002-04 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 12/01/14 13:00

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|--------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | 1412007 | 12/01/14 | 12/01/14 | 8015M  |       |

Date Sampled: 12/01/14 13:00

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl |        | 101 %           | 30-150 |          | "     | "        | "        | "      |       |

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: 12/01/14 13:00

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Naphthalene                 | ND     | 0.010           | mg/kg | 1        | 1412010 | 12/01/14 | 12/01/14 | EPA 8260B |       |
| Benzene                     | ND     | 0.0020          | "     | "        | "       | "        | "        | "         |       |
| Toluene                     | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | ND     | 0.010           | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | ND     | 0.50            | "     | "        | "       | "        | "        | "         |       |

Date Sampled: 12/01/14 13:00

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 |        | 99.4 %          | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 91.2 %          | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 92.3 %          | 21-167 |          | "     | "        | "        | "      |       |

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

Project: Huwa 11-1, 2

Project Number: 008314068  
Project Manager: Chris Roy

**Reported:**  
12/02/14 06:34

**SS25@3'**  
**1412002-05 (Soil)**

### Summit Scientific

#### Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/01/14 13:30

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|--------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | 1412007 | 12/01/14 | 12/01/14 | 8015M  |       |

Date Sampled: 12/01/14 13:30

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl |        | 103 %           | 30-150 |          | "     | "        | "        | "      |       |

#### Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/01/14 13:30

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Naphthalene                 | ND     | 0.010           | mg/kg | 1        | 1412010 | 12/01/14 | 12/01/14 | EPA 8260B |       |
| Benzene                     | ND     | 0.0020          | "     | "        | "       | "        | "        | "         |       |
| Toluene                     | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND     | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | ND     | 0.010           | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | ND     | 0.50            | "     | "        | "       | "        | "        | "         |       |

Date Sampled: 12/01/14 13:30

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 |        | 110 %           | 23-173 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 89.0 %          | 20-170 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 92.7 %          | 21-167 |          | "     | "        | "        | "      |       |

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

Project: Huwa 11-1, 2  
Project Number: 008314068  
Project Manager: Chris Roy

**Reported:**  
12/02/14 06:34

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

| Analyte | Reporting |       |       | Spike | Source |      | %REC   |     | RPD   |       |
|---------|-----------|-------|-------|-------|--------|------|--------|-----|-------|-------|
|         | Result    | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

**Batch 1412007 - EPA 3550A**

**Blank (1412007-BLK1)**

Prepared & Analyzed: 12/01/14

|                        |      |    |       |      |     |        |  |  |  |  |
|------------------------|------|----|-------|------|-----|--------|--|--|--|--|
| C10-C28 (DRO)          | ND   | 50 | mg/kg |      |     |        |  |  |  |  |
| Surrogate: o-Terphenyl | 12.6 |    | "     | 12.2 | 104 | 30-150 |  |  |  |  |

**LCS (1412007-BS1)**

Prepared & Analyzed: 12/01/14

|                        |      |    |       |      |      |        |  |  |  |  |
|------------------------|------|----|-------|------|------|--------|--|--|--|--|
| C10-C28 (DRO)          | 491  | 50 | mg/kg | 501  | 98.0 | 73-134 |  |  |  |  |
| Surrogate: o-Terphenyl | 12.5 |    | "     | 12.2 | 102  | 30-150 |  |  |  |  |

**Matrix Spike (1412007-MS1)**

Source: 1411192-01

Prepared & Analyzed: 12/01/14

|                        |      |    |       |      |     |        |        |  |  |  |
|------------------------|------|----|-------|------|-----|--------|--------|--|--|--|
| C10-C28 (DRO)          | 511  | 50 | mg/kg | 498  | ND  | 103    | 50-148 |  |  |  |
| Surrogate: o-Terphenyl | 13.3 |    | "     | 12.1 | 110 | 30-150 |        |  |  |  |

**Matrix Spike Dup (1412007-MSD1)**

Source: 1411192-01

Prepared & Analyzed: 12/01/14

|                        |      |    |       |      |     |        |        |      |    |  |
|------------------------|------|----|-------|------|-----|--------|--------|------|----|--|
| C10-C28 (DRO)          | 475  | 50 | mg/kg | 489  | ND  | 97.0   | 50-148 | 7.42 | 13 |  |
| Surrogate: o-Terphenyl | 12.0 |    | "     | 11.9 | 100 | 30-150 |        |      |    |  |

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

Project: Huwa 11-1, 2  
Project Number: 008314068  
Project Manager: Chris Roy

Reported:  
12/02/14 06:34

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

| Analyte | Reporting |       |       | Spike | Source |      | %REC   |     | RPD   |       |
|---------|-----------|-------|-------|-------|--------|------|--------|-----|-------|-------|
|         | Result    | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

**Batch 1412010 - EPA 5030 Soil MS**

**Blank (1412010-BLK1)**

Prepared & Analyzed: 12/01/14

|   |               |        |          |               |  |             |               |  |  |  |
|---|---------------|--------|----------|---------------|--|-------------|---------------|--|--|--|
| Naphthalene                             | ND            | 0.010  | mg/kg    |               |  |             |               |  |  |  |
| Benzene                                 | ND            | 0.0020 | "        |               |  |             |               |  |  |  |
| Toluene                                 | ND            | 0.0050 | "        |               |  |             |               |  |  |  |
| Ethylbenzene                            | ND            | 0.0050 | "        |               |  |             |               |  |  |  |
| Xylenes (total)                         | ND            | 0.010  | "        |               |  |             |               |  |  |  |
| Gasoline Range Hydrocarbons             | ND            | 0.50   | "        |               |  |             |               |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0416</i> |        | <i>"</i> | <i>0.0396</i> |  | <i>105</i>  | <i>23-173</i> |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | <i>0.0385</i> |        | <i>"</i> | <i>0.0400</i> |  | <i>96.3</i> | <i>20-170</i> |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>0.0400</i> |        | <i>"</i> | <i>0.0400</i> |  | <i>99.9</i> | <i>21-167</i> |  |  |  |

**LCS (1412010-BS1)**

Prepared & Analyzed: 12/01/14

|   |               |        |          |               |  |             |               |  |  |  |
|---|---------------|--------|----------|---------------|--|-------------|---------------|--|--|--|
| Naphthalene                             | ND            | 0.010  | mg/kg    |               |  |             | 66-138        |  |  |  |
| Benzene                                 | 0.0913        | 0.0020 | "        | 0.100         |  | 91.3        | 58-130        |  |  |  |
| Toluene                                 | 0.0903        | 0.0050 | "        | 0.100         |  | 90.3        | 61-134        |  |  |  |
| Ethylbenzene                            | 0.101         | 0.0050 | "        | 0.0992        |  | 102         | 74-139        |  |  |  |
| m,p-Xylene                              | 0.192         | 0.010  | "        | 0.200         |  | 96.2        | 73-137        |  |  |  |
| o-Xylene                                | 0.102         | 0.0050 | "        | 0.0984        |  | 104         | 73-141        |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0415</i> |        | <i>"</i> | <i>0.0396</i> |  | <i>105</i>  | <i>23-173</i> |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | <i>0.0402</i> |        | <i>"</i> | <i>0.0400</i> |  | <i>100</i>  | <i>20-170</i> |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>0.0395</i> |        | <i>"</i> | <i>0.0400</i> |  | <i>98.7</i> | <i>21-167</i> |  |  |  |

**Matrix Spike (1412010-MS1)**

Source: 1412002-02

Prepared & Analyzed: 12/01/14

|   |               |        |          |               |    |             |               |  |  |  |
|---|---------------|--------|----------|---------------|----|-------------|---------------|--|--|--|
| Naphthalene                             | ND            | 0.010  | mg/kg    |               | ND |             | 10-158        |  |  |  |
| Benzene                                 | 0.0892        | 0.0020 | "        | 0.0990        | ND | 90.1        | 30-131        |  |  |  |
| Toluene                                 | 0.0882        | 0.0050 | "        | 0.0990        | ND | 89.1        | 30-134        |  |  |  |
| Ethylbenzene                            | 0.0986        | 0.0050 | "        | 0.0982        | ND | 100         | 22-153        |  |  |  |
| m,p-Xylene                              | 0.188         | 0.010  | "        | 0.198         | ND | 95.4        | 10-159        |  |  |  |
| o-Xylene                                | 0.101         | 0.0050 | "        | 0.0974        | ND | 104         | 31-151        |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0423</i> |        | <i>"</i> | <i>0.0392</i> |    | <i>108</i>  | <i>23-173</i> |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | <i>0.0392</i> |        | <i>"</i> | <i>0.0396</i> |    | <i>98.9</i> | <i>20-170</i> |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>0.0385</i> |        | <i>"</i> | <i>0.0396</i> |    | <i>97.3</i> | <i>21-167</i> |  |  |  |

Summit Scientific

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

Project: Huwa 11-1, 2  
Project Number: 008314068  
Project Manager: Chris Roy

Reported:  
12/02/14 06:34

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

| Analyte | Reporting |       |       | Spike | Source |      | %REC   |     | RPD   |       |
|---------|-----------|-------|-------|-------|--------|------|--------|-----|-------|-------|
|         | Result    | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

**Batch 1412010 - EPA 5030 Soil MS**

| Matrix Spike Dup (1412010-MSD1)  |        | Source: 1412002-02 |       |        | Prepared & Analyzed: 12/01/14 |      |        |      |    |  |
|----------------------------------|--------|--------------------|-------|--------|-------------------------------|------|--------|------|----|--|
| Naphthalene                      | ND     | 0.010              | mg/kg |        | ND                            |      | 10-158 |      | 42 |  |
| Benzene                          | 0.0943 | 0.0020             | "     | 0.0998 | ND                            | 94.4 | 30-131 | 5.54 | 34 |  |
| Toluene                          | 0.0929 | 0.0050             | "     | 0.0998 | ND                            | 93.1 | 30-134 | 5.27 | 30 |  |
| Ethylbenzene                     | 0.104  | 0.0050             | "     | 0.0990 | ND                            | 105  | 22-153 | 5.38 | 24 |  |
| m,p-Xylene                       | 0.202  | 0.010              | "     | 0.199  | ND                            | 102  | 10-159 | 7.16 | 68 |  |
| o-Xylene                         | 0.107  | 0.0050             | "     | 0.0982 | ND                            | 109  | 31-151 | 5.51 | 38 |  |
| Surrogate: 1,2-Dichloroethane-d4 |        | 0.0472             | "     | 0.0395 |                               | 119  | 23-173 |      |    |  |
| Surrogate: Toluene-d8            |        | 0.0393             | "     | 0.0399 |                               | 98.3 | 20-170 |      |    |  |
| Surrogate: 4-Bromofluorobenzene  |        | 0.0410             | "     | 0.0399 |                               | 103  | 21-167 |      |    |  |

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### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

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A handwritten signature in black ink, appearing to be 'MSM'.