

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

☐ Initial Report ☒ Final Report

Name of Company <b>ConocoPhillips Company</b>	Contact <b>Ashley Maxwell</b>
Address <b>3401 E. 30th St., Farmington, NM 87402</b>	Telephone No. <b>505-324-5169</b>
Facility Name <b>Newberry A 2</b>	Facility Type <b>Gas Well</b> Lease # <b>SF-078146</b>

Surface Owner <b>Federal</b>	Mineral Owner <b>Federal</b>	API No. <b>3004511892</b>
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<b>K</b>	<b>09</b>	<b>31N</b>	<b>12W</b>	<b>1750'</b>	<b>South</b>	<b>1550'</b>	<b>West</b>	<b>San Juan County</b>

Latitude **36.9111921° N** Longitude **-108.1048707° W**

**NATURE OF RELEASE**

Type of Release <b>Hydrocarbon Produced water</b>	Volume of Release <b>Hydrocarbon- 25 BBL Produced water- 5 BBL</b>	Volume Recovered <b>Hydrocarbon- 0 BBL Produced water- 0 BBL</b>
Source of Release <b>Oil Production Tank</b>	Date and Hour of Occurrence <b>Unknown</b>	Date and Hour of Discovery <b>5/18/2012 @ 7:00 AM</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Brandon Powell – NMOCD Mark Kelly – BLM FFO</b>	<b>RCVD NOV 16 '12 OIL CONS. DIV.</b>
By Whom? <b>Ashley Maxwell</b>	Date and Hour <b>NMOCD – 5/21//2012 @ 6:53 AM BLM FFO – 5/21/2012 @ 6:55 AM</b>	<b>DIST. 3</b>
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

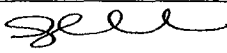
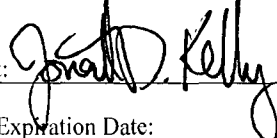
Describe Cause of Problem and Remedial Action Taken.\*

**An oil production tank developed a hole releasing 25 BBL of hydrocarbon and 5 BBL produced water. Leak was contained in the berm with zero BBL recovered. Oil production tank will be replaced.**

Describe Area Affected and Cleanup Action Taken.\*

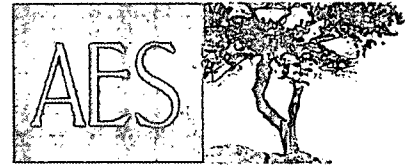
Loose contaminated soil will be removed using hydrovac. COPC will then assess the soil and determine a path forward for clean-up. Excavation was required based on NMOCD Guidelines for Remediation of Leaks, Spills and Releases. The excavation was 50'X75'X3' and 468 yds<sup>3</sup> of soil was transported to a third party land farm. Excavation and confirmation sampling occurred. Analytical results were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases; therefore no further action is needed.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Ashley Maxwell</b>	Approved by Environmental Specialist: 	
Title: <b>Field Environmental Specialist</b>	Approval Date: <b>1/8/2014</b>	Expiration Date:
E-mail Address: <b>ashley.p.wethington@conocophillips.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>November 12, 2012</b> Phone: <b>505-324-5169</b>		

\* Attach Additional Sheets If Necessary

**NSK 1400840990**



Animas Environmental Services, LLC

[www.animasenvironmental.com](http://www.animasenvironmental.com)

624 E. Comanche  
Farmington, NM 87401  
505-564-2281

Durango, Colorado  
970-403-3274

November 1, 2012

Ashley Maxwell  
ConocoPhillips  
San Juan Business Unit  
Office 216-2  
5525 Hwy 64  
Farmington, New Mexico 87401

**RE: Initial Release Assessment and Final Excavation Report  
Newberry A #2  
San Juan County, New Mexico**

Dear Ms. Maxwell:

On June 4 and July 9, 2012, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) Newberry A #2, located in San Juan County, New Mexico. The initial excavation was completed by AES on June 4, 2012. The final excavation was completed by CoP contractors while AES was on location on July 9, 2012. The release was a result of a leaking production tank and consisted of approximately 25 barrels (bbl) of petroleum hydrocarbons and 5 bbls of produced water.

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## 1.0 Site Information

### 1.1 Location

Location – NE¼ SW¼, Section 9, T31N, R12W, San Juan County, New Mexico  
Well Head Latitude/Longitude – N36.91135 and W108.10482, respectively  
Release Location Latitude/Longitude – N36.91166 and W108.10507, respectively  
Land Jurisdiction – Bureau of Land Management (BLM)  
Figure 1. Topographic Site Location Map  
Figure 2. Aerial Site Map, June 2012

### 1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a C-144 dated July 1999 for the Newberry LS #4 well located approximately 1,200 feet southwest of the release area reported the depth to groundwater as greater than 100 feet below ground surface (bgs). The New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby water wells, and no registered water wells were reported to be located within 1,000 feet of the

location. Additionally, Google Earth and the New Mexico Tech Petroleum Recovery Research Center online mapping tool (<http://ford.nmt.edu/react/project.html>) were accessed to aid in the identification of downgradient surface water.

Once on site, AES personnel further assessed the ranking using topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site was greater than 100 feet bgs. An unnamed wash is located approximately 230 feet southeast of the location. Based on this information, the location was assessed a ranking score of 10 per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993).

### *1.3 Initial Assessment and Excavation Confirmation Sampling*

AES was initially contacted by Ashley Maxwell of CoP on June 4, 2012, and the same day, Tami Ross and Zachary Trujillo of AES completed the release assessment field work. The assessment included collection and field screening of soil samples from 18 soil borings (SB-1 through SB-18) near the location of the former production tank. Based on the field screening and laboratory analytical results, AES recommended excavation of the release area. Sample locations and excavation extents are shown on Figure 3.

On July 9, 2012, AES returned to the location to collect confirmation soil samples of the excavation. The field screening activities included collection of 16 confirmation soil samples (SC-1 through SC-16) from the walls and base of the excavation. The area of the final excavation was approximately 2,400 ft<sup>2</sup> and about 1 to 4 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

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## **2.0 Soil Sampling**

A total of 18 soil samples were collected during the initial assessment, and 16 composite soil samples were collected as part of excavation confirmation sampling. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Four of the soil samples collected during the initial assessment (SB-4, SB-10, SB-14, and SB-16) and six composite soil samples (SC-1, SC-2, SC-8, and SC-14 through SC-16) collected during the excavation were submitted for laboratory analysis.

### *2.1 Field Screening*

#### **2.1.1 Volatile Organic Compounds**

Field screening for VOC vapors was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

### 2.1.2 Total Petroleum Hydrocarbons

Field TPH samples were analyzed per USEPA Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck). A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES's *Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1*.

## 2.2 Laboratory Analyses

The 10 soil samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8260B; and/or
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B.

## 2.3 Field Screening and Laboratory Analytical Results

On June 6, 2012, initial assessment field screening readings for VOCs via OVM ranged from 5.1 ppm in SB-17 up to 3,504 ppm in SB-10. Field TPH concentrations ranged from 567 mg/kg in SB-18 up to greater than 5,000 mg/kg in SB-7, SB-11, SB-15, and SB-16.

On July 9, 2012, final excavation field screening results for VOCs via OVM ranged from 23.7 ppm in SC-3 to 2,735 ppm in SC-15. Field TPH concentrations ranged from 37.1 mg/kg in SC-13 up to 558 mg/kg in SC-1. Results are included below in Table 1 and on Figures 3 and 4. Field screening reports are attached.

Table 1. Soil Field Screening VOCs and TPH Results  
Newberry A #2 Release Assessment and Final Excavation, June and July 2012

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>Field TPH (mg/kg)</i>
	<i>NMOCDA Action Level*</i>		<i>100</i>	<i>1,000</i>
SB-1	6/4/12	0.5	2,415	NA
SB-2	6/4/12	0.5	2,551	NA
SB-3	6/4/12	1	285	NA
SB-4	6/4/12	1	2,739	939

<b>Sample ID</b>	<b>Date Sampled</b>	<b>Sample Depth (ft bgs)</b>	<b>VOCs via OVM (ppm)</b>	<b>Field TPH (mg/kg)</b>
		<b>NMOCD Action Level*</b>	<b>100</b>	<b>1,000</b>
SB-5	6/4/12	1	2,551	NA
SB-6	6/4/12	1	2,000	4,960
SB-7	6/4/12	1	2,130	>5,000
SB-8	6/4/12	1	47.3	NA
SB-9	6/4/12	1	22.3	1,420
SB-10	6/4/12	1	3,504	627
SB-11	6/4/12	1	2,001	>5,000
SB-12	6/4/12	1	15.4	705
SB-13	6/4/12	1	97.2	945
SB-14	6/4/12	2	1,629	3,600
SB-15	6/4/12	4.5	1,511	>5,000
SB-16	6/4/12	4.5	1,075	>5,000
SB-17	6/4/12	4.5	5.1	645
SB-18	6/4/12	0.5	24.4	567
SC-1	7/9/12	0.5 to 1	1,753	558
SC-2	7/9/12	1 to 3	185	80.9
SC-3	7/9/12	0.5 to 1	23.7	60.4
SC-4	7/9/12	1 to 3	1,915	NA
SC-5	7/9/12	1 to 3	1,665	NA
SC-6	7/9/12	1 to 6	720	NA
SC-7	7/9/12	1 to 6	2,665	NA
SC-8	7/9/12	1 to 6	1,228	180
SC-9	7/9/12	1 to 3	434	NA
SC-10	7/9/12	0.5 to 1	2,257	NA
SC-11	7/9/12	1 to 3	2,280	NA
SC-12	7/9/12	1 to 6	74.9	134
SC-13	7/9/12	1 to 6	36.7	37.1
SC-14	7/9/12	0.5 to 1	792	87.8
SC-15	7/9/12	1 to 6	2,735	NA
SC-16	7/9/12	1 to 3	2,708	NA

NA – Not Analyzed

\*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993)

Laboratory analyses for SB-4, SB-10, SB-14, and SB-16 were used to confirm field screening results from the initial assessment. Benzene concentrations ranged from less than 0.25 mg/kg in SB-4, SB-10, and SB-14 up to 19 mg/kg in SB-16. Total BTEX concentrations ranged from less than 1.25 mg/kg in SB-10 up to 1,170 mg/kg in SB-16. The reported TPH concentration (as GRO/DRO) in SB-16 was 13,400 mg/kg.

Laboratory analyses for SC-1, SC-2, SC-8, and SC-14 through SC-16 were used to confirm field screening results during excavation activities. Benzene concentrations ranged from below laboratory detection limits in five samples up to 0.076 mg/kg in SC-16. Total BTEX concentrations ranged from 0.67 mg/kg in SC-2 up to 14 mg/kg in SC-16. TPH concentrations (as GRO/DRO) were reported as 199 mg/kg in SC-15 and 271 mg/kg in SC-16. Results are presented in Table 2 and on Figures 3 and 4. Laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results – Benzene, BTEX and TPH  
Newberry A #2 Release Assessment and Final Excavation, June and July 2012

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>Benzene (mg/kg)</i>	<i>BTEX (mg/kg)</i>	<i>GRO (mg/kg)</i>	<i>DRO (mg/kg)</i>
<i>NMOCD Action Level*</i>			<i>10</i>	<i>50</i>	<i>1,000</i>	
SB-4	6/4/12	1	<0.25	3.7	NA	NA
SB-10	6/4/12	1	<0.25	<1.25	NA	NA
SB-14	6/4/12	1	<0.25	49.5	NA	NA
SB-16	6/4/12	4.5	<b>19</b>	<b>1,170</b>	<b>12,000</b>	<b>1,400</b>
SC-1	7/9/12	0.5 to 1	<0.25	2.6	NA	NA
SC-2	7/9/12	1 to 3	<0.050	0.67	NA	NA
SC-8	7/9/12	1 to 6	<0.25	1.4	NA	NA
SC-14	7/9/12	0.5 to 1	<0.25	2.5	NA	NA
SC-15	7/9/12	1 to 6	<0.25	6.2	160	39
SC-16	7/9/12	1 to 3	0.076	14	230	41

NA – Not Analyzed

\*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993)

### 3.0 Conclusions and Recommendations

On June 4 and July 9, 2012, AES conducted an initial assessment of petroleum contaminated soils associated with a release from the production tank at the Newberry A #2, located in San Juan County, New Mexico. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993), and the release was assigned a rank of 10. Field screening reported concentrations above the NMOCD action levels of 100 ppm VOCs in 12 of the 18 samples collected, with the highest concentration in SB-10 (3,504 ppm). Field screening of TPH exceeded the NMOCD action level of 1,000 mg/kg in SB-6, SB-7, SB-9, SB-11, SB-14, SB-15, and SB-16. TPH concentrations were greater than 5,000 mg/kg in SB-7, SB-11, SB-15, and SB-16.

Laboratory analyses collected on June 4, 2012, showed that benzene, total BTEX, and TPH concentrations were above the applicable NMOCD thresholds in SB-16 with 19 mg/kg benzene, 1,170 mg/kg BTEX, and 13,400 mg/kg TPH. Based on field screening and laboratory analytical results, excavation of the release area was recommended for the location.

On July 9, 2012, final assessment of the excavation area was completed. Field screening results of the excavation extents showed that VOC concentrations were above applicable NMOCD action levels in SC-1, SC-2, SC-4 through SC-11, SC-15, and SC-16, with the highest concentration reported in SC-15 with 2,735 ppm. The field TPH concentrations reported in samples SC-1 through SC-14 were below the NMOCD action level of 1,000 mg/kg. Analytical results showed that benzene and total BTEX concentrations in each sample were reported below the applicable NMOCD action levels. TPH as GRO/DRO in SC-15 and SC-16 were reported below the NMOCD action levels of 1,000 mg/kg.

Based on the final field screening and laboratory results from confirmation samples from the final excavation of petroleum contaminated soils at the Newberry A #2, benzene, total BTEX, VOCs, and TPH concentrations were below applicable NMOCD action levels. No further work is recommended.

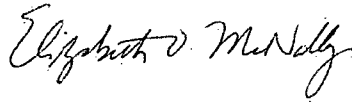
If you have any questions about this report or site conditions, please do not hesitate to contact Deborah Watson at (505) 564-2281.

Sincerely,



Heather M. Woods

Staff Geologist

A handwritten signature in cursive script that reads "Elizabeth McNally".

Elizabeth McNally, PE

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, June 2012
- Figure 3. Initial Assessment Soil Sample Locations and Results, June 2012
- Figure 4. Final Excavation Soil Sample Locations and Results, July 2012
- AES Field Screening Report 060412
- AES Field Screening Report 070912
- Hall Laboratory Analytical Report 1206100
- Hall Laboratory Analytical Report 1207263

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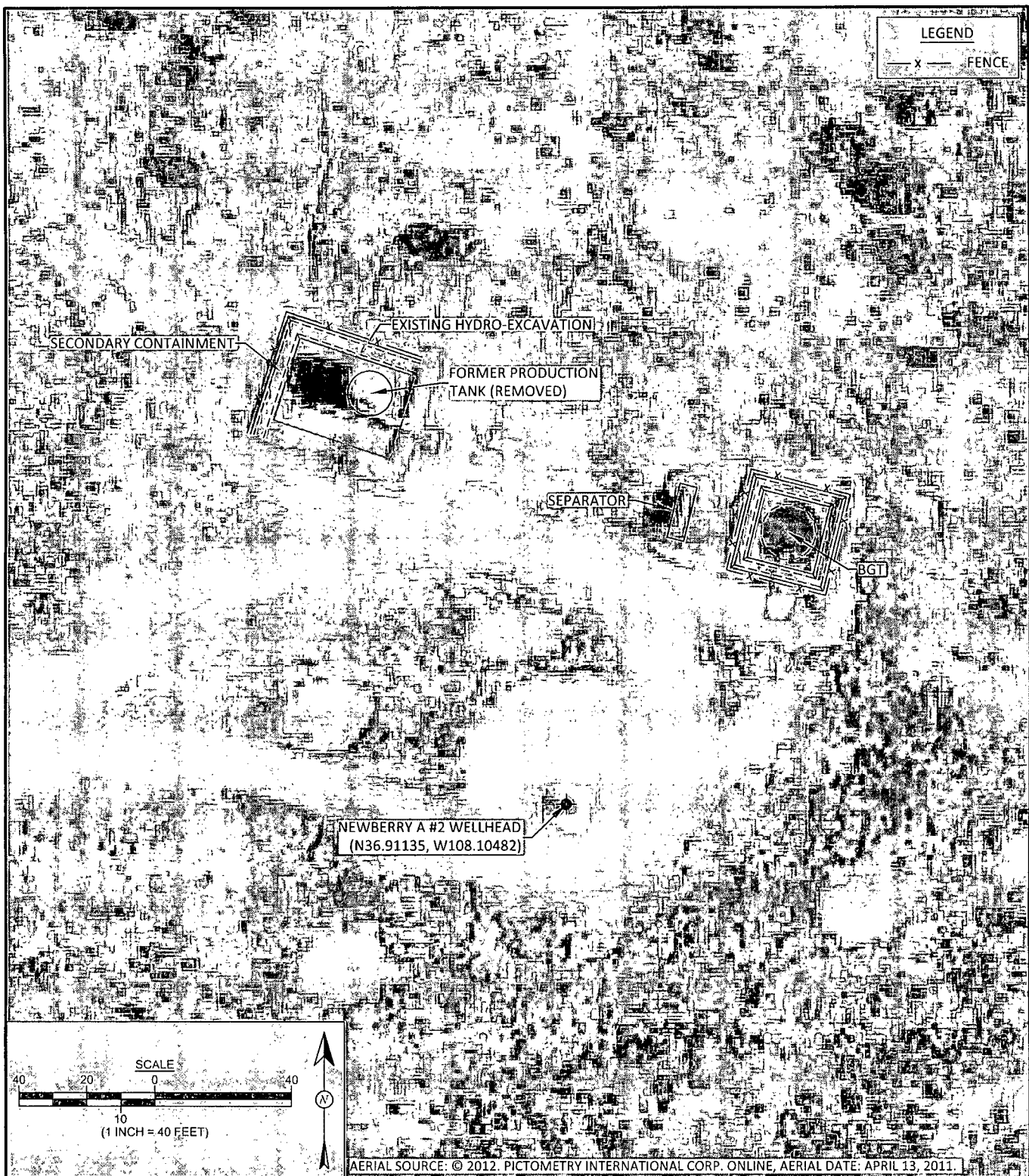




<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> June 5, 2012
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> October 19, 2012
<b>CHECKED BY:</b> D. Watson	<b>DATE CHECKED:</b> October 19, 2012
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> October 19, 2012

## FIGURE 1

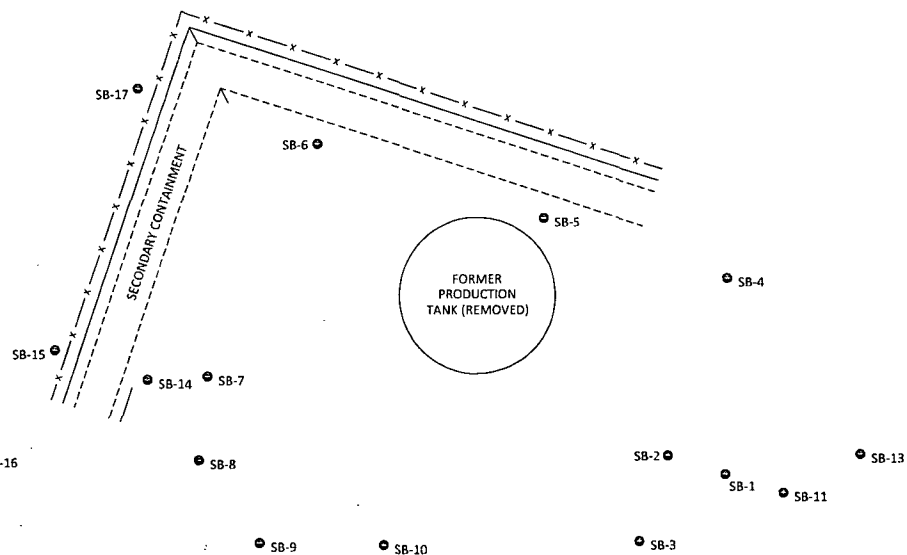
**TOPOGRAPHIC SITE LOCATION MAP**  
ConocoPhillips  
NEWBERRY A #2  
SAN JUAN COUNTY, NEW MEXICO  
NE¼ SW¼, SECTION 9, T31N, R12W  
N36.91135, W108.10482



<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> June 5, 2012
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> October 19, 2012
<b>CHECKED BY:</b> D. Watson	<b>DATE CHECKED:</b> October 19, 2012
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> October 19, 2012

**FIGURE 2**

**AERIAL SITE MAP**  
 ConocoPhillips  
 NEWBERRY A #2  
 SAN JUAN COUNTY, NEW MEXICO  
 NE¼ SW¼, SECTION 9, T31N, R12W  
 N36.91135, W108.10482



Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	5,000
SB-1	6/4/12	0.5	2,415	NA
SB-2	6/4/12	0.5	2,551	NA
SB-3	6/4/12	1	285	NA
SB-4	6/4/12	1	2,739	939
SB-5	6/4/12	1	2,551	NA
SB-6	6/4/12	1	2,000	4,960
SB-7	6/4/12	1	2,130	>5,000*
SB-8	6/4/12	1	47.3	NA
SB-9	6/4/12	1	22.3	1,420
SB-10	6/4/12	1	3,504	627
SB-11	6/4/12	1	2,001	>5,000*
SB-12	6/4/12	1	15.4	705
SB-13	6/4/12	1	97.2	945
SB-14	6/4/12	2	1,629	3,600
SB-15	6/4/12	4.5	1,511	>5,000*
SB-16	6/4/12	4.5	1,075	>5,000*
SB-17	6/4/12	4.5	5.1	645
SB-18	6/4/12	.5	24.4	567

NA - NOT ANALYZED  
\*TPH DILUTION NOT RUN PER CoP

Laboratory Analytical Results						
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
NMOCD ACTION LEVEL			10	50	5,000	
SB-4	6/4/12	1	<0.25	3.7	NA	NA
SB-10	6/4/12	1	<0.25	<1.3	NA	NA
SB-14	6/4/12	2	<0.25	49.5	NA	NA
SB-16	6/4/12	4.5	19	1,170	12,000	1,400
ALL SAMPLES WERE ANALYZED PER EPA METHOD 8260B AND/OR 8015B. NA- NOT ANALYZED.						

**FIGURE 3**

**INITIAL ASSESSMENT SOIL SAMPLE LOCATIONS AND RESULTS**  
JUNE 2012  
ConocoPhillips  
NEWBERRY A #2  
SAN JUAN COUNTY, NEW MEXICO  
NE¼ SW¼, SECTION 9, T31N, R12W  
N36.91135, W108.10482

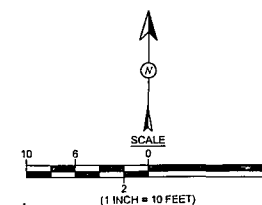


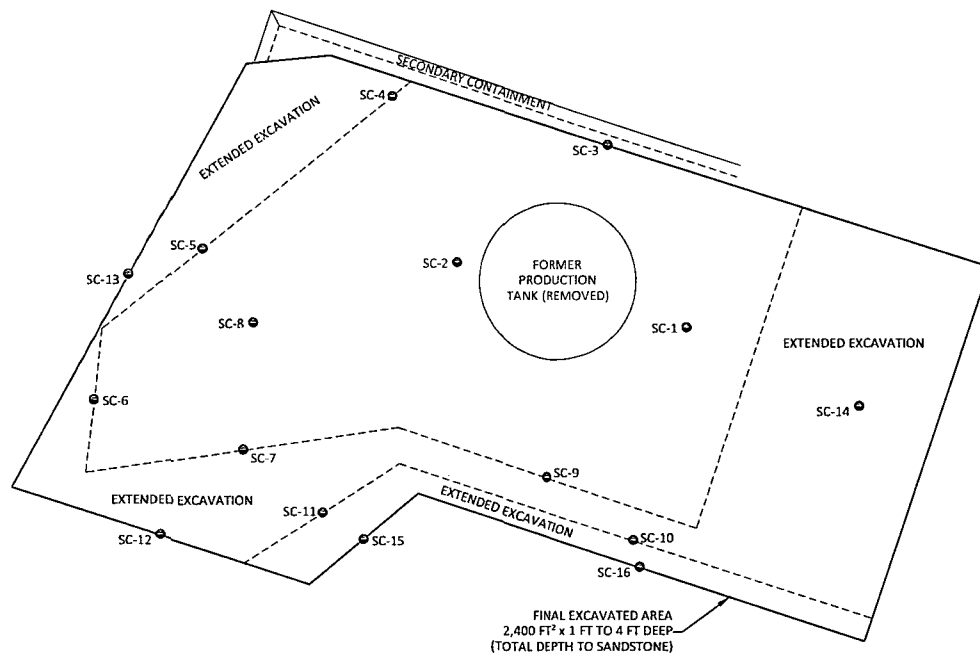
Animas Environmental Services, LLC

<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> June 5, 2012
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> October 19, 2012
<b>CHECKED BY:</b> D. Watson	<b>DATE CHECKED:</b> October 19, 2012
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> October 19, 2012

**LEGEND**

- x — FENCE
- SAMPLE LOCATIONS





Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	1,000
SC-1	7/9/12	0.5 to 1	1,753	558
SC-2	7/9/12	3	185	80.9
SC-3	7/9/12	0.5 to 1	23.7	60.4
SC-4	7/9/12	1 to 3	1,915	NA
SC-5	7/9/12	1 to 6	1,665	NA
SC-6	7/9/12	1 to 6	720	NA
SC-7	7/9/12	1 to 6	2,665	NA
SC-8	7/9/12	6	1,228	180
SC-9	7/9/12	1 to 3	434	NA
SC-10	7/9/12	1 to 3	2,257	NA
SC-11	7/9/12	1 to 6	2,280	NA
SC-12	7/9/12	1 to 6	74.9	134
SC-13	7/9/12	0.5 to 6	36.7	37.1
SC-14	7/9/12	0.5 to 1	792	87.8
SC-15	7/9/12	1 to 6	2,735	NA
SC-16	7/9/12	1 to 3	2,708	NA
NA - NOT ANALYZED				

Laboratory Analytical Results						
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
NMOCD ACTION LEVEL			10	50	1,000	
SC-1	7/9/12	0.5 to 1	<0.25	2.6	NA	NA
SC-2	7/9/12	3	<0.050	0.76	NA	NA
SC-8	7/9/12	6	<0.25	1.4	NA	NA
SC-14	7/9/12	0.5 to 1	<0.25	2.5	NA	NA
SC-15	7/9/12	1 to 6	<0.25	6.2	160	39
SC-16	7/9/12	1 to 3	0.076	14	230	41
ALL SAMPLES WERE ANALYZED PER EPA METHOD 8260B AND/OR 8015B. NA - NOT ANALYZED.						

**FIGURE 4**

**FINAL EXCAVATION SOIL  
SAMPLE LOCATIONS AND RESULTS  
JULY 2012**  
ConocoPhillips  
NEWBERRY A #2  
SAN JUAN COUNTY, NEW MEXICO  
NE¼ SW¼, SECTION 9, T31N, R12W  
N36.91135, W108.10482

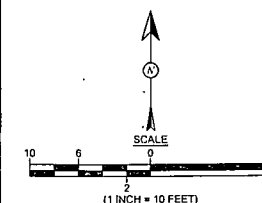


Animas Environmental Services, LLC

<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> June 5, 2012
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> October 19, 2012
<b>CHECKED BY:</b> D. Watson	<b>DATE CHECKED:</b> October 19, 2012
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> October 19, 2012

**LEGEND**

● SAMPLE LOCATIONS



# AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

Client: ConocoPhillips

Project Location: Newberry A #2

Date: 6/4/2012

Matrix: Soil

624 E. Comanche  
Farmington, NM 87401  
505-564-2231

Durango, Colorado  
970-403-3274

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ 0.5'	6/4/2012	10:35	2,415	Not Analyzed for TPH.			
SB-2 @ 0.5'	6/4/2012	10:40	2,551	Not Analyzed for TPH.			
SB-3 @ 1'	6/4/2012	10:45	285	Not Analyzed for TPH.			
SB-4 @ 1'	6/4/2012	10:47	2,739	939	100	1	TCR
SB-5 @ 1'	6/4/2012	10:50	2,551	Not Analyzed for TPH.			
SB-6 @ 1'	6/4/2012	10:53	2,000	4,960	100	1	TCR
SB-7 @ 1'	6/4/2012	10:56	2,130	>5,000	100	1	TCR
SB-8 @ 1'	6/4/2012	11:00	47.3	Not Analyzed for TPH.			
SB-9 @ 1'	6/4/2012	11:05	22.3	1,420	100	1	TCR
SB-10 @ 1'	6/4/2012	11:08	3,504	627	100	1	TCR
SB-11 @ 1'	6/4/2012	11:10	2,001	>5,000	100	1	TCR
SB-12 @ 1'	6/4/2012	13:15	15.4	705	100	1	TCR
SB-13 @ 1'	6/4/2012	13:20	97.2	945	100	1	TCR
SB-14 @ 2'	6/4/2012	13:25	1,629	3,600	100	1	TCR
SB-15 @ 4.5'	6/4/2012	13:30	1,511	>5,000	100	1	TCR
SB-16 @ 4.5'	6/4/2012	14:44	1,075	>5,000	100	1	TCR
SB-17 @ 4.5'	6/4/2012	14:50	5.1	645	100	1	TCR
SB-18 @ 0.5'	6/4/2012	15:00	24.4	567	100	1	TCR

Total Petroleum Hydrocarbons - USEPA 418.1

PQL Practical Quantitation Limit

ND Not Detected at the Reporting Limit

DF Dilution Factor

NA Not Analyzed

\*Field TPH concentrations recorded may be below PQL.

Analyst:

*Jami Ross*

# AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

Client: ConocoPhillips

Project Location: Newberry A #2

Date: 7/9/2012

Matrix: Soil

624 E. Comanche  
Farmington, NM 87401  
505-564-2281

Durango, Colorado  
970-403-3274

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	7/9/2012	13:00	1,753	15:10	558	20.0	1	DAW
SC-2	7/9/2012	13:03	185	15:14	80.9	20.0	1	DAW
SC-3	7/9/2012	13:05	23.7	15:18	60.4	20.0	1	DAW
SC-4	7/9/2012	13:08	1,915	Not Analyzed for TPH				
SC-5	7/9/2012	13:10	1,665	Not Analyzed for TPH				
SC-6	7/9/2012	13:14	720	Not Analyzed for TPH				
SC-7	7/9/2012	13:16	2,665	Not Analyzed for TPH				
SC-8	7/9/2012	13:18	1,228	15:23	180	20.0	1	DAW
SC-9	7/9/2012	13:20	434	Not Analyzed for TPH				
SC-10	7/9/2012	14:45	2,257	Not Analyzed for TPH				
SC-11	7/9/2012	14:48	2,280	Not Analyzed for TPH				
SC-12	7/9/2012	14:50	74.9	15:54	134	20.0	1	DAW
SC-13	7/9/2012	15:00	36.7	15:49	37.1	20.0	1	DAW
SC-14	7/9/2012	15:05	792	15:55	87.8	20.0	1	DAW
SC-15	7/9/2012	15:50	2,735	Not Analyzed for TPH				
SC-16	7/9/2012	16:00	2,708	Not Analyzed for TPH				

Total Petroleum Hydrocarbons - USEPA 418.1

PQL Practical Quantitation Limit  
ND Not Detected at the Reporting Limit  
DF Dilution Factor  
NA Not Analyzed

Analyst:

*Debrah Wata*



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

June 06, 2012

Tami Ross

Animas Environmental Services  
624 East Comanche  
Farmington, NM 87401  
TEL: (505) 793-2072  
FAX

RE: Newberry A #2

OrderNo.: 1206100

Dear Tami Ross:

Hall Environmental Analysis Laboratory received 4 sample(s) on 6/5/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order 1206100

Date Reported: 6/6/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SB-4 @ 1'**Project:** Newberry A #2**Collection Date:** 6/4/2012 10:47:00 AM**Lab ID:** 1206100-001**Matrix:** MEOH (SOIL)**Received Date:** 6/5/2012 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: BDH
Benzene	ND	0.25		mg/Kg	5	6/5/2012 4:01:04 PM
Toluene	0.33	0.25		mg/Kg	5	6/5/2012 4:01:04 PM
Ethylbenzene	ND	0.25		mg/Kg	5	6/5/2012 4:01:04 PM
Xylenes, Total	3.4	0.50		mg/Kg	5	6/5/2012 4:01:04 PM
Surr: 1,2-Dichloroethane-d4	88.2	70-130		%REC	5	6/5/2012 4:01:04 PM
Surr: 4-Bromofluorobenzene	115	70-130		%REC	5	6/5/2012 4:01:04 PM
Surr: Dibromofluoromethane	91.7	71.7-132		%REC	5	6/5/2012 4:01:04 PM
Surr: Toluene-d8	92.2	70-130		%REC	5	6/5/2012 4:01:04 PM

**Qualifiers:** \* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit



**Analytical Report**

Lab Order 1206100

Date Reported: 6/6/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SB-10 @ 1'**Project:** Newberry A #2**Collection Date:** 6/4/2012 11:08:00 AM**Lab ID:** 1206100-002**Matrix:** MEOH (SOIL)**Received Date:** 6/5/2012 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: BDH
Benzene	ND	0.25		mg/Kg	5	6/5/2012 4:31:03 PM
Toluene	ND	0.25		mg/Kg	5	6/5/2012 4:31:03 PM
Ethylbenzene	ND	0.25		mg/Kg	5	6/5/2012 4:31:03 PM
Xylenes, Total	ND	0.50		mg/Kg	5	6/5/2012 4:31:03 PM
Surr: 1,2-Dichloroethane-d4	87.0	70-130		%REC	5	6/5/2012 4:31:03 PM
Surr: 4-Bromofluorobenzene	102	70-130		%REC	5	6/5/2012 4:31:03 PM
Surr: Dibromofluoromethane	91.5	71.7-132		%REC	5	6/5/2012 4:31:03 PM
Surr: Toluene-d8	95.0	70-130		%REC	5	6/5/2012 4:31:03 PM

**Qualifiers:**   \*/X   Value exceeds Maximum Contaminant Level.  
                  E    Value above quantitation range  
                  J    Analyte detected below quantitation limits  
                  R    RPD outside accepted recovery limits  
                  S    Spike Recovery outside accepted recovery limits

B   Analyte detected in the associated Method Blank  
H   Holding times for preparation or analysis exceeded  
ND  Not Detected at the Reporting Limit  
RL  Reporting Detection Limit

**Analytical Report**

Lab Order 1206100

Date Reported: 6/6/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SB-14 @ 2'**Project:** Newberry A #2**Collection Date:** 6/4/2012 1:25:00 PM**Lab ID:** 1206100-003**Matrix:** MEOH (SOIL)**Received Date:** 6/5/2012 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: BDH
Benzene	ND	0.25		mg/Kg	5	6/5/2012 5:01:00 PM
Toluene	10	0.25		mg/Kg	5	6/5/2012 5:01:00 PM
Ethylbenzene	2.5	0.25		mg/Kg	5	6/5/2012 5:01:00 PM
Xylenes, Total	37	0.50		mg/Kg	5	6/5/2012 5:01:00 PM
Surr: 1,2-Dichloroethane-d4	91.1	70-130		%REC	5	6/5/2012 5:01:00 PM
Surr: 4-Bromofluorobenzene	114	70-130		%REC	5	6/5/2012 5:01:00 PM
Surr: Dibromofluoromethane	91.5	71.7-132		%REC	5	6/5/2012 5:01:00 PM
Surr: Toluene-d8	90.9	70-130		%REC	5	6/5/2012 5:01:00 PM

**Qualifiers:** \*X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

**Analytical Report**

Lab Order 1206100

Date Reported: 6/6/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SB-16**Project:** Newberry A #2**Collection Date:** 6/4/2012 2:44:00 PM**Lab ID:** 1206100-004**Matrix:** MEOH (SOIL)**Received Date:** 6/5/2012 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: JMP
Diesel Range Organics (DRO)	1400	99		mg/Kg	10	6/5/2012 11:54:40 AM
Surr: DNOP	0	82.1-121	S	%REC	10	6/5/2012 11:54:40 AM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: BDH
Benzene	19	5.0		mg/Kg	100	6/5/2012 1:39:34 PM
Toluene	440	5.0		mg/Kg	100	6/5/2012 1:39:34 PM
Ethylbenzene	51	5.0		mg/Kg	100	6/5/2012 1:39:34 PM
Xylenes, Total	660	10		mg/Kg	100	6/5/2012 1:39:34 PM
Surr: 1,2-Dichloroethane-d4	86.1	70-130		%REC	100	6/5/2012 1:39:34 PM
Surr: 4-Bromofluorobenzene	105	70-130		%REC	100	6/5/2012 1:39:34 PM
Surr: Dibromofluoromethane	87.4	71.7-132		%REC	100	6/5/2012 1:39:34 PM
Surr: Toluene-d8	87.3	70-130		%REC	100	6/5/2012 1:39:34 PM
<b>EPA METHOD 8015B MOD: GASOLINE RANGE</b>						Analyst: BDH
Gasoline Range Organics (GRO)	12000	500		mg/Kg	100	6/5/2012 1:39:34 PM
Surr: BFB	105	70-130		%REC	100	6/5/2012 1:39:34 PM

**Qualifiers:** \*X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206100

06-Jun-12

Client: Animas Environmental Services

Project: Newberry A #2

Sample ID	MB-2234	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	2234	RunNo:	3194					
Prep Date:	6/5/2012	Analysis Date:	6/5/2012	SeqNo:	89051	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		105	82.1	121			

Sample ID	LCS-2234	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	2234	RunNo:	3194					
Prep Date:	6/5/2012	Analysis Date:	6/5/2012	SeqNo:	89052	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	10	50.00	0	74.8	52.6	130			
Surr: DNOP	4.4		5.000		87.2	82.1	121			

## Qualifiers:

\*X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1206100

06-Jun-12

Client: Animas Environmental Services

Project: Newberry A #2

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	LCSS	Batch ID:	R3214	RunNo:	3214					
Prep Date:		Analysis Date:	6/5/2012	SeqNo:	89725	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	100	70.7	123			
Toluene	0.94	0.050	1.000	0	94.0	80	120			
Surr: 1,2-Dichloroethane-d4	0.41		0.5000		81.1	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.6	70	130			
Surr: Dibromofluoromethane	0.42		0.5000		83.1	71.7	132			
Surr: Toluene-d8	0.42		0.5000		84.4	70	130			

Sample ID	1206100-002ams	SampType:	MS	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	SB-10 @ 1'	Batch ID:	R3214	RunNo:	3214					
Prep Date:		Analysis Date:	6/5/2012	SeqNo:	89730	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.25	1.000	0	100	81.3	119			
Toluene	1.3	0.25	1.000	0	134	75	121			S
Surr: 1,2-Dichloroethane-d4	2.3		2.500		90.5	70	130			
Surr: 4-Bromofluorobenzene	2.6		2.500		102	70	130			
Surr: Dibromofluoromethane	2.3		2.500		90.2	71.7	132			
Surr: Toluene-d8	2.4		2.500		94.0	70	130			

Sample ID	1206100-002amsd	SampType:	MSD	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	SB-10 @ 1'	Batch ID:	R3214	RunNo:	3214					
Prep Date:		Analysis Date:	6/5/2012	SeqNo:	89731	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.25	1.000	0	92.3	81.3	119	8.25	15.7	
Toluene	1.1	0.25	1.000	0	112	75	121	17.6	16.2	R
Surr: 1,2-Dichloroethane-d4	2.2		2.500		87.9	70	130	0	0	
Surr: 4-Bromofluorobenzene	2.5		2.500		101	70	130	0	0	
Surr: Dibromofluoromethane	2.2		2.500		89.0	71.7	132	0	0	
Surr: Toluene-d8	2.3		2.500		91.6	70	130	0	0	

Sample ID	5mL rb	SampType:	MBLK	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	PBS	Batch ID:	R3214	RunNo:	3214					
Prep Date:		Analysis Date:	6/5/2012	SeqNo:	89735	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		86.7	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.6	70	130			

### Qualifiers:

\*X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206100

06-Jun-12

Client: Animas Environmental Services

Project: Newberry A #2

Sample ID: 5mL rb	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: R3214	RunNo: 3214								
Prep Date:	Analysis Date: 6/5/2012	SeqNo: 89735 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.43		0.5000		86.0	71.7	132			
Surr: Toluene-d8	0.46		0.5000		91.3	70	130			

## Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206100

06-Jun-12

Client: Animas Environmental Services

Project: Newberry A #2

Sample ID	5mL rb	SampType:	MBLK	TestCode:	EPA Method 8015B Mod: Gasoline Range					
Client ID:	PBS	Batch ID:	R3214	RunNo:	3214					
Prep Date:		Analysis Date:	6/5/2012	SeqNo:	89341	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	470		500.0		93.6	70	130			

Sample ID	2.5ug gro lcs	SampType:	LCS	TestCode:	EPA Method 8015B Mod: Gasoline Range					
Client ID:	LCSS	Batch ID:	R3214	RunNo:	3214					
Prep Date:		Analysis Date:	6/5/2012	SeqNo:	89781	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.7	85	115			
Surr: BFB	560		500.0		111	70	130			

## Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87105  
TEL: 505-345-3975 FAX: 505-345-4105  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name:	Animas Environmental	Work Order Number:	1206100
Received by/date:	LM 06/05/12		
Logged By:	Michelle Garcia	6/5/2012 9:50:00 AM	Michelle Garcia
Completed By:	Michelle Garcia	6/5/2012 9:56:08 AM	Michelle Garcia
Reviewed By:	[Signature]	06/05/12	

### Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

### Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH:	
( $<2$ or $>12$ unless noted)	
Adjusted?	
Checked by:	

### Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

18. Additional remarks:

### 19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good	Yes			



Client: Animos Environmental

Mailing Address: 624 E Comanche  
Farmington, NM 87401

Phone #: 505 564-2281

email or Fax#: tosse@animosenvironmental.com

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other \_\_\_\_\_

☐ EDD (Type) \_\_\_\_\_

☐ Standard ☒ Rush SAME DAY

Project Name: Newberry A #2

Project #:

Project Manager:

**Sampler:**

Office ☒ Yes ☐ No

# Sample Temperature

Container Type and #	Preservative Type
M3	02/05/12

04/05/12

# HEALING

0611

MeOH

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111

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Scheduled labor

## HALL ENVIRONMENTAL ANALYSIS LABORATORY

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975      Fax 505-345-4107

## Analysis Request

	X	X	X	BTEX + MTBE + TMB's (8021)
				BTEX + MTBE + TPH (Gas only)
	X			TPH Method 8015B (Gas/Diesel)
				TPH (Method 418.1)
				EDB (Method 504.1)
				8310 (PNA or PAH)
				RCRA 8 Metals
				Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )
				8081 Pesticides / 8082 PCB's
				8260B (VOA)
				8270 (Semi-VOA)
				Air Rubbles (Y or N)

Air Bubbles (Y or N)

Date:	Time:	Relinquished by:	Received by:	Date:	Time
6/4/12	1647	Dani Ross	Christine Woeter	6/4/12	1647
Date:	Time:	Relinquished by:	Received by:	Date:	Time
6/4/12	1747	Christine Woeter	Christine Woeter	6/5/12	0945

Remarks: BILL TO CONDO PHILLIPS



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

July 16, 2012

Ross Kennemer

Animas Environmental Services  
624 East Comanche  
Farmington, NM 87401  
TEL: (505) 486-1776  
FAX (505) 324-2022

RE: Newberry A #2

OrderNo.: 1207263

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 6 sample(s) on 7/10/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 1207263

Date Reported: 7/16/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: Newberry A #2

Collection Date: 7/9/2012 1:00:00 PM

Lab ID: 1207263-001

Matrix: MEOH (SOIL)

Received Date: 7/10/2012 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.25		mg/Kg	5	7/10/2012 1:05:11 PM
Toluene	0.29	0.25		mg/Kg	5	7/10/2012 1:05:11 PM
Ethylbenzene	ND	0.25		mg/Kg	5	7/10/2012 1:05:11 PM
Xylenes, Total	2.3	0.50		mg/Kg	5	7/10/2012 1:05:11 PM
Surr: 1,2-Dichloroethane-d4	91.8	70-130		%REC	5	7/10/2012 1:05:11 PM
Surr: 4-Bromofluorobenzene	96.9	70-130		%REC	5	7/10/2012 1:05:11 PM
Surr: Dibromofluoromethane	98.0	70-130		%REC	5	7/10/2012 1:05:11 PM
Surr: Toluene-d8	99.3	70-130		%REC	5	7/10/2012 1:05:11 PM

Qualifiers: \*X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit  
U Samples with CalcVal < MDL

**Analytical Report**Lab Order **1207263**Date Reported: **7/16/2012****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SC-2**Project:** Newberry A #2**Collection Date:** 7/9/2012 1:03:00 AM**Lab ID:** 1207263-002**Matrix:** MEOH (SOIL)**Received Date:** 7/10/2012 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: <b>RAA</b>
Benzene	ND	0.050		mg/Kg	1	7/10/2012 1:33:32 PM
Toluene	0.21	0.050		mg/Kg	1	7/10/2012 1:33:32 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/10/2012 1:33:32 PM
Xylenes, Total	0.46	0.10		mg/Kg	1	7/10/2012 1:33:32 PM
Surr: 1,2-Dichloroethane-d4	96.0	70-130		%REC	1	7/10/2012 1:33:32 PM
Surr: 4-Bromofluorobenzene	89.2	70-130		%REC	1	7/10/2012 1:33:32 PM
Surr: Dibromofluoromethane	101	70-130		%REC	1	7/10/2012 1:33:32 PM
Surr: Toluene-d8	98.6	70-130		%REC	1	7/10/2012 1:33:32 PM

**Qualifiers:**

- \*X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

**Analytical Report**

Lab Order 1207263

Date Reported: 7/16/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SC-8**Project:** Newberry A #2**Collection Date:** 7/9/2012 1:18:00 PM**Lab ID:** 1207263-003**Matrix:** MEOH (SOIL)**Received Date:** 7/10/2012 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: RAA
Benzene	ND	0.25		mg/Kg	5	7/10/2012 2:01:52 PM
Toluene	0.26	0.25		mg/Kg	5	7/10/2012 2:01:52 PM
Ethylbenzene	ND	0.25		mg/Kg	5	7/10/2012 2:01:52 PM
Xylenes, Total	1.1	0.50		mg/Kg	5	7/10/2012 2:01:52 PM
Surr: 1,2-Dichloroethane-d4	93.5	70-130		%REC	5	7/10/2012 2:01:52 PM
Surr: 4-Bromofluorobenzene	97.7	70-130		%REC	5	7/10/2012 2:01:52 PM
Surr: Dibromofluoromethane	103	70-130		%REC	5	7/10/2012 2:01:52 PM
Surr: Toluene-d8	97.3	70-130		%REC	5	7/10/2012 2:01:52 PM

**Qualifiers:** \* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit  
U Samples with CalcVal < MDL

**Analytical Report**

Lab Order 1207263

Date Reported: 7/16/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SC-14**Project:** Newberry A #2**Collection Date:** 7/9/2012 3:05:00 PM**Lab ID:** 1207263-004**Matrix:** MEOH (SOIL)**Received Date:** 7/10/2012 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: RAA
Benzene	ND	0.25		mg/Kg	5	7/10/2012 2:30:14 PM
Toluene	0.56	0.25		mg/Kg	5	7/10/2012 2:30:14 PM
Ethylbenzene	ND	0.25		mg/Kg	5	7/10/2012 2:30:14 PM
Xylenes, Total	1.9	0.50		mg/Kg	5	7/10/2012 2:30:14 PM
Surr: 1,2-Dichloroethane-d4	92.4	70-130		%REC	5	7/10/2012 2:30:14 PM
Surr: 4-Bromofluorobenzene	99.3	70-130		%REC	5	7/10/2012 2:30:14 PM
Surr: Dibromofluoromethane	98.9	70-130		%REC	5	7/10/2012 2:30:14 PM
Surr: Toluene-d8	98.3	70-130		%REC	5	7/10/2012 2:30:14 PM

**Qualifiers:**   \*/X   Value exceeds Maximum Contaminant Level.  
                  E    Value above quantitation range  
                  J    Analyte detected below quantitation limits  
                  R    RPD outside accepted recovery limits  
                  S    Spike Recovery outside accepted recovery limits

                  B    Analyte detected in the associated Method Blank  
                  H    Holding times for preparation or analysis exceeded  
                  ND   Not Detected at the Reporting Limit  
                  RL   Reporting Detection Limit  
                  U    Samples with CalcVal < MDL

# Analytical Report

Lab Order 1207263

Date Reported: 7/16/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-15

Project: Newberry A #2

Collection Date: 7/9/2012 3:50:00 PM

Lab ID: 1207263-005

Matrix: MEOH (SOIL)

Received Date: 7/10/2012 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: SCC
Diesel Range Organics (DRO)	39	10		mg/Kg	1	7/10/2012 12:18:22 PM
Surr: DNOP	102	77.6-140		%REC	1	7/10/2012 12:18:22 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: RAA
Benzene	ND	0.25		mg/Kg	5	7/10/2012 1:33:24 PM
Toluene	0.77	0.25		mg/Kg	5	7/10/2012 1:33:24 PM
Ethylbenzene	0.30	0.25		mg/Kg	5	7/10/2012 1:33:24 PM
Xylenes, Total	5.1	0.50		mg/Kg	5	7/10/2012 1:33:24 PM
Surr: 1,2-Dichloroethane-d4	83.9	70-130		%REC	5	7/10/2012 1:33:24 PM
Surr: 4-Bromofluorobenzene	98.3	70-130		%REC	5	7/10/2012 1:33:24 PM
Surr: Dibromofluoromethane	83.3	71.7-132		%REC	5	7/10/2012 1:33:24 PM
Surr: Toluene-d8	84.7	70-130		%REC	5	7/10/2012 1:33:24 PM
<b>EPA METHOD 8015B MOD: GASOLINE RANGE</b>						Analyst: RAA
Gasoline Range Organics (GRO)	160	25		mg/Kg	5	7/10/2012 1:33:24 PM
Surr: BFB	98.3	70-130		%REC	5	7/10/2012 1:33:24 PM

Qualifiers: \* /X Value exceeds Maximum Contaminant Level.  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 R RPD outside accepted recovery limits  
 S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 RL Reporting Detection Limit  
 U Samples with CalcVal < MDL

**Analytical Report**

Lab Order 1207263

Date Reported: 7/16/2012

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental Services**Client Sample ID:** SC-16**Project:** Newberry A #2**Collection Date:** 7/9/2012 4:00:00 PM**Lab ID:** 1207263-006**Matrix:** MEOH (SOIL)**Received Date:** 7/10/2012 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: SCC
Diesel Range Organics (DRO)	41	9.9		mg/Kg	1	7/10/2012 12:40:27 PM
Surr: DNOP	112	77.6-140		%REC	1	7/10/2012 12:40:27 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: RAA
Benzene	0.076	0.050		mg/Kg	1	7/10/2012 1:05:39 PM
Toluene	2.9	0.050		mg/Kg	1	7/10/2012 1:05:39 PM
Ethylbenzene	0.66	0.050		mg/Kg	1	7/10/2012 1:05:39 PM
Xylenes, Total	10	0.10		mg/Kg	1	7/10/2012 1:05:39 PM
Surr: 1,2-Dichloroethane-d4	88.3	70-130		%REC	1	7/10/2012 1:05:39 PM
Surr: 4-Bromofluorobenzene	120	70-130		%REC	1	7/10/2012 1:05:39 PM
Surr: Dibromofluoromethane	90.6	71.7-132		%REC	1	7/10/2012 1:05:39 PM
Surr: Toluene-d8	85.2	70-130		%REC	1	7/10/2012 1:05:39 PM
<b>EPA METHOD 8015B MOD: GASOLINE RANGE</b>						Analyst: RAA
Gasoline Range Organics (GRO)	230	5.0		mg/Kg	1	7/10/2012 1:05:39 PM
Surr: BFB	120	70-130		%REC	1	7/10/2012 1:05:39 PM

**Qualifiers:**

- \*X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1207263

16-Jul-12

Client: Animas Environmental Services

Project: Newberry A #2

Sample ID	MB-2731	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	2731	RunNo:	3905					
Prep Date:	7/8/2012	Analysis Date:	7/9/2012	SeqNo:	111052	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		107	77.6	140			

Sample ID	LCS-2731	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	2731	RunNo:	3905					
Prep Date:	7/8/2012	Analysis Date:	7/9/2012	SeqNo:	111053	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		92.3	77.6	140			

Sample ID	MB-2732	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	2732	RunNo:	3905					
Prep Date:	7/8/2012	Analysis Date:	7/9/2012	SeqNo:	111542	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		108	77.6	140			

Sample ID	LCS-2732	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	2732	RunNo:	3905					
Prep Date:	7/8/2012	Analysis Date:	7/9/2012	SeqNo:	111543	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		92.5	77.6	140			

Sample ID	1207211-009BMS	SampType:	MS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	2732	RunNo:	3905					
Prep Date:	7/8/2012	Analysis Date:	7/9/2012	SeqNo:	111546	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		4.941		78.0	77.6	140			

Sample ID	1207211-009BMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	2732	RunNo:	3905					
Prep Date:	7/8/2012	Analysis Date:	7/10/2012	SeqNo:	111548	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		4.965		79.1	77.6	140	0	0	

Sample ID	MB-2755	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	2755	RunNo:	3905					
Prep Date:	7/10/2012	Analysis Date:	7/10/2012	SeqNo:	112276	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1207263

16-Jul-12

Client: Animas Environmental Services

Project: Newberry A #2

Sample ID	MB-2755		SampType: MBLK		TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS		Batch ID: 2755		RunNo: 3905					
Prep Date:	7/10/2012		Analysis Date: 7/10/2012		SeqNo: 112276		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		113	77.6	140			

Sample ID	LCS-2755		SampType: LCS		TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 2755		RunNo: 3905					
Prep Date:	7/10/2012		Analysis Date: 7/10/2012		SeqNo: 112346		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	10	50.00	0	71.5	52.6	130			
Surr: DNOP	5.0		5.000		99.6	77.6	140			

Sample ID	1207263-005AMS		SampType:	MS		TestCode:	EPA Method 8015B: Diesel Range Organics				
Client ID:	SC-15		Batch ID:	2755		RunNo:	3924				
Prep Date:	7/10/2012		Analysis Date:	7/10/2012		SeqNo:	112423		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	100	10	50.15	39.14	125	57.2	146				
Surr: DNOP	15		15.05		97.1	77.6	140				

Sample ID	1207263-005AMSD		SampType:	MSD		TestCode:	EPA Method 8015B: Diesel Range Organics				
Client ID:	SC-15		Batch ID:	2755		RunNo:	3924				
Prep Date:	7/10/2012		Analysis Date:	7/10/2012		SeqNo:	112424		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	100	10	50.45	39.14	123	57.2	146	0.579	24.5		
Surr: DNOP	15		15.14		102	77.6	140	0	0		

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1207263

16-Jul-12

Client: Animas Environmental Services

Project: Newberry A #2

Sample ID	5ml-rb	SampType:	MBLK	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	PBS	Batch ID:	R3941	RunNo:	3941					
Prep Date:		Analysis Date:	7/10/2012	SeqNo:	113524	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		84.0	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.4	70	130			
Surr: Dibromofluoromethane	0.39		0.5000		78.6	71.7	132			
Surr: Toluene-d8	0.45		0.5000		89.2	70	130			

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	LCSS	Batch ID:	R3941	RunNo:	3941					
Prep Date:		Analysis Date:	7/10/2012	SeqNo:	113525	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.050	1.000	0	94.0	70.7	123			
Toluene	0.93	0.050	1.000	0	92.9	80	120			
Surr: 1,2-Dichloroethane-d4	0.40		0.5000		80.2	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.5	70	130			
Surr: Dibromofluoromethane	0.36		0.5000		72.9	71.7	132			
Surr: Toluene-d8	0.42		0.5000		83.8	70	130			

Sample ID	1207264-002a ms	SampType:	MS	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	BatchQC	Batch ID:	R3941	RunNo:	3941					
Prep Date:		Analysis Date:	7/10/2012	SeqNo:	113526	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.78	0.050	0.7810	0	99.3	81.3	119			
Toluene	0.72	0.050	0.7810	0	91.7	75	121			
Surr: 1,2-Dichloroethane-d4	0.32		0.3905		81.2	70	130			
Surr: 4-Bromofluorobenzene	0.34		0.3905		85.8	70	130			
Surr: Dibromofluoromethane	0.31		0.3905		79.8	71.7	132			
Surr: Toluene-d8	0.33		0.3905		84.3	70	130			

Sample ID	1207264-002a msd	SampType:	MSD	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	BatchQC	Batch ID:	R3941	RunNo:	3941					
Prep Date:		Analysis Date:	7/10/2012	SeqNo:	113527	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.74	0.050	0.7810	0	94.3	81.3	119	5.19	15.7	
Toluene	0.68	0.050	0.7810	0	86.8	75	121	5.47	16.2	
Surr: 1,2-Dichloroethane-d4	0.31		0.3905		80.1	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.35		0.3905		88.5	70	130	0	0	

## Qualifiers:

\*X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1207263

16-Jul-12

Client: Animas Environmental Services

Project: Newberry A #2

Sample ID	1207264-002a msd	SampType:	MSD	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	BatchQC	Batch ID:	R3941	RunNo:	3941					
Prep Date:		Analysis Date:	7/10/2012	SeqNo:	113527	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.30		0.3905		76.1	71.7	132	0	0	
Surr: Toluene-d8	0.33		0.3905		83.9	70	130	0	0	

Sample ID	5ml-rb	SampType:	MBLK	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	PBS	Batch ID:	R3944	RunNo:	3944					
Prep Date:		Analysis Date:	7/10/2012	SeqNo:	114315	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.4	70	130			
Surr: 4-Bromofluorobenzene	0.58		0.5000		115	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		100	70	130			
Surr: Toluene-d8	0.49		0.5000		97.5	70	130			

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	LCSS	Batch ID:	R3944	RunNo:	3944					
Prep Date:		Analysis Date:	7/10/2012	SeqNo:	114316	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	1.000	0	93.3	70.7	123			
Toluene	0.89	0.050	1.000	0	89.3	80	120			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.4	70	130			
Surr: 4-Bromofluorobenzene	0.54		0.5000		108	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		103	70	130			
Surr: Toluene-d8	0.48		0.5000		95.6	70	130			

### Qualifiers:

\* / X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
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R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1207263

16-Jul-12

Client: Animas Environmental Services

Project: Newberry A #2

Sample ID	5ml-rb	SampType:	MBLK	TestCode:	EPA Method 8015B Mod: Gasoline Range					
Client ID:	PBS	Batch ID:	R3941	RunNo:	3941					
Prep Date:		Analysis Date:	7/10/2012	SeqNo:	113466	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	480		500.0		95.4	70	130			

Sample ID	2.5ug gro lcs	SampType:	LCS	TestCode:	EPA Method 8015B Mod: Gasoline Range					
Client ID:	LCSS	Batch ID:	R3941	RunNo:	3941					
Prep Date:		Analysis Date:	7/10/2012	SeqNo:	113490	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	85	115			
Surr: BFB	480		500.0		95.9	70	130			

Sample ID	1207264-002A MS	SampType:	MS	TestCode:	EPA Method 8015B Mod: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R3941	RunNo:	3941					
Prep Date:		Analysis Date:	7/10/2012	SeqNo:	113491	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	19.53	10.82	85.4	70	130			
Surr: BFB	340		390.5		87.4	70	130			

Sample ID	1207264-002A MSD	SampType:	MSD	TestCode:	EPA Method 8015B Mod: Gasoline Range					
Client ID:	BatchQC	Batch ID:	R3941	RunNo:	3941					
Prep Date:		Analysis Date:	7/10/2012	SeqNo:	113492	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	19.53	10.82	82.4	70	130	2.12	20	
Surr: BFB	350		390.5		90.4	70	130	0	0	

### Qualifiers:

\*X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank  
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RL Reporting Detection Limit

# Sample Log-In Check List

Client Name:	Animas Environmental	Work Order Number:	1207263
Received by/date:	LM 07/10/12		
Logged By:	Michelle Garcia	7/10/2012 9:50:00 AM	Michelle Garcia
Completed By:	Michelle Garcia	7/10/2012 9:55:46 AM	Michelle Garcia
Reviewed By:	[Signature]	07/10/12	

## Chain of Custody

- Were seals intact? Yes ☐ No ☐ Not Present ☒
- Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
- How was the sample delivered? Courier

## Log In

- Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
- Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
- Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
- Sample(s) in proper container(s)? Yes ☒ No ☐
- Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
- Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
- Was preservative added to bottles? Yes ☐ No ☒ NA ☐
- VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
- Were any sample containers received broken? Yes ☐ No ☒
- Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☒ No ☐
- Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
- Is it clear what analyses were requested? Yes ☒ No ☐
- Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved bottles checked for pH: \_\_\_\_\_  
(<2 or >12 unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: \_\_\_\_\_

## Special Handling (if applicable)

- Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

- Additional remarks:

## 19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.4	Good	Yes			

Client: Animas Environmental  
Services LLC  
Mailing Address: 624 E Comanche  
Farmington NM  
Phone #: 505 564 2281

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other \_\_\_\_\_

☐ EDD (Type) \_\_\_\_\_

☐ Standard ☒ Rush same day

Project Name: Newberry A#2

Project #:

**Project Manager:**

R. Kennemer

Sampler: D. Watson

On ice : ☒ Yes ☐ No

Sample Temperature 13.4

Container  
Type and #Preservative  
Type

## HEALING

1000

7-9-12	1300	Soil	SC-1	1402	1 MWH	1 MWH	-001
	1303	Soil	SC-2				-002
	1318	Soil	SC-8				-003
	1505	Soil	SC-14				-004
	1550	Soil	SC-15				-005
	1600	Soil	SC-16				-006

## HALL ENVIRONMENTAL ANALYSIS LABORATORY

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975      Fax 505-345-4107

## Analysis Request

[illegible]

Air Bubble (V or N)

Date:	Time:	Relinquished by:	Received by:	Date	Time
7/9/12	1740	Debrah Water	Christine Water	7/9/12	1740
Date:	Time:	Relinquished by:	Received by:	Date	Time
7/9/12	1752	Christine Water	Christine Water	7/10/12	0957

Remarks:	Direct bill to ConocoPhillips
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This notice is notice of this 11/1/77.