

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 to
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

| | |
|---|--|
| Name of Company ConocoPhillips Company | Contact Lindsay Dumas |
| Address 3401 East 30th St, Farmington, NM | Telephone No. (505) 599-4089 |
| Facility Name: Northeast Haynes 1 | Facility Type: Gas |
| Surface Owner Jicarilla | Mineral Owner Jicarilla Apache (36) |
| API No. 3003905565 | |

LOCATION OF RELEASE

| | | | | | | | | |
|-------------------------|---------------------|------------------------|---------------------|------------------------------|----------------------------------|-----------------------------|-------------------------------|-----------------------------|
| Unit Letter L | Section 9 | Township 24N | Range 05W | Feet from the 1850 | North/South Line South | Feet from the 790 | East/West Line West | County Rio Arriba |
|-------------------------|---------------------|------------------------|---------------------|------------------------------|----------------------------------|-----------------------------|-------------------------------|-----------------------------|

Latitude **36.32465** Longitude **-107.37175**

NATURE OF RELEASE

| | | |
|--|---|---|
| Type of Release Hydrocarbons | Volume of Release unknown | Volume Recovered 0 |
| Source of Release Production Tank | Date and Hour of Occurrence Unknown | Date and Hour of Discovery 10/28/13 |
| Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom? | |
| By Whom? | Date and Hour | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |

RCVD JAN 29 '14
OIL CONS. DIV.
DIST. 3

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Contaminated soil was associated with a historical release was discovered during an equipment reset, on October 28, 2013. Third party environmental was contracted for an assessment.

Describe Area Affected and Cleanup Action Taken.*

The historical release was discovered during equipment reset on location. Excavation was 35' x 45' x 25' Deep. 868 c/yds of soil was transported to TNT Land Farm and 868 c/yds of clean soil was transported from TNT, and placed in the excavation site. Analytical results were not below the regulatory standards – further remedial action will follow in coordination with NMOCD State Office. The soil sampling report is attached for review.

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: <i>Lindsay Dumas</i> | OIL CONSERVATION DIVISION | |
| Printed Name: Lindsay Dumas | Approved by Environn | DENIED 9/4/14 BY: Cory Smith DATE: (505) 334-6178 Ext. 115 Attached <input type="checkbox"/> |
| Title: Field Environmental Specialist | Approval Date: | |
| E-mail Address: Lindsay.Dumas@conocophillips.com | Conditions of Approva | |
| Date: 1/28/14 Phone: (505) 599-4089 | <i>* COPC Has 90 Days</i> | |

* Attach Additional Sheets If Necessary

#NCS 1424743236

to Return to site to Further Diligence Release.
Contamination Above Regulatory STANDARDS.



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

January 23, 2014

Lindsay Dumas
ConocoPhillips
San Juan Business Unit
Office 214-07
5525 Hwy 64
Farmington, New Mexico 87401

Via electronic mail to:

SJBUE-Team@ConocoPhillips.com

**RE: Initial Release Assessment and Excavation Report
Northeast Haynes #1
Rio Arriba County, New Mexico**

**RCVD JAN 29 '14
OIL CONS. DIV.
DIST. 3**

Dear Ms. Dumas:

On October 28, 2013 and November 7, 8, and 11, 2013, Animas Environmental Services, LLC (AES) completed an initial release assessment and evaluation of the excavation limits at the ConocoPhillips (CoP) Northeast Haynes #1, located in Rio Arriba County, New Mexico. The historic release was discovered during facility reset activities at the location. The initial release assessment was completed by AES on October 28, 2013, and the excavation was completed by CoP contractors prior to AES' arrival at the location on November 11, 2013.

1.0 Site Information

1.1 Location

Location – NW¼ SW¼, Section 9, T24N, R5W, Rio Arriba County, New Mexico

Well Head Latitude/Longitude – N36.32514 and W107.37221, respectively

Release Location Latitude/Longitude – N36.32595 and W107.37266, respectively

Land Jurisdiction – Jicarilla Apache Nation

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

1.2 Risk Ranking

The Northeast Haynes #1 is located on Jicarilla Apache Nation lands, and soil remediation action levels are determined by the Jicarilla Apache Nation Oil and Gas Administration (JANOGA). JANOGA action levels for soils currently follow the New

Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993). Per JANOGA, all locations within Jicarilla Apache Nation lands receive a ranking score of 20:

- 100 ppm volatile organic compounds (VOCs) or 10 mg/kg benzene and 50 mg/kg total BTEX (benzene, toluene, ethylbenzene, and xylenes); and
- 100 mg/kg total petroleum hydrocarbons (TPH).

1.3 Assessment

AES was initially contacted by Lisa Hunter of CoP on October 28, 2013, and on the same day, Kelsey Christiansen and Corwin Lameman of AES completed the release assessment field work. The assessment included collection and field screening of 30 soil samples from 8 assessment trenches (TH-1 to TH-8) in and around the release area. Based on the field screening results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On November 7, 2013, AES returned to the location to collect confirmation soil samples of the excavation. The field screening activities included collection of five confirmation soil samples from the walls and base of the excavation. Based on field screening results, the excavation was extended an additional 5 feet in depth to a total of 18 feet below ground surface (bgs) followed by additional excavation which extended the final base of the excavation to 25 feet bgs. The final dimensions of the excavation were approximately 32 feet by 31 feet by 25 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 30 soil samples from 8 assessment trenches (TH-1 through TH-8) and 5 composite samples (SC-1 through SC-5) were collected during the assessments. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Two samples (TH-3 and TH-5) collected during the initial assessment and five composite samples (SC-1 to SC-5) collected during the excavation clearance were submitted for confirmation 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 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. All soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B; and
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D.

2.3 Field Screening and Laboratory Analytical Results

On October 28, 2013, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 0.3 ppm in TH-6 up to 4,165 ppm in TH-2. Field TPH concentrations ranged from 43.3 mg/kg in TH-4 up to 1,330 mg/kg in TH-3.

Excavation field screening results for VOCs via OVM ranged from 0.5 ppm in SC-1 and SC-4 up to 2,621 ppm in SC-5. Field TPH concentrations ranged from 20.3 mg/kg in SC-4 up to 2,430 mg/kg in SC-5. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Screening Reports are attached.

Table 1. Field Screening VOCs and TPH Results
Northeast Haynes #1 Initial Release Assessment and Excavation
October and November 2013

| <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>JANOGA Action Level*</i> | | | 100 | 100 |
| TH-1 | 10/28/13 | 3 | 18.0 | 72.9 |
| | | 5 | 7.3 | NA |
| | | 7 | 23.2 | NA |
| | | 9 | 30.8 | 71.5 |

| <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>JANOGA Action Level*</i> | | | 100 | 100 |
| TH-2 | 10/28/13 | 3 | 2,148 | 1,260 |
| | | 5 | 4,165 | NA |
| | | 7 | 12.1 | 112 |
| | | 9 | 22.2 | NA |
| TH-3 | 10/28/13 | 3 | 4,147 | 1,330 |
| | | 5 | 989 | NA |
| | | 7 | 20.1 | 163 |
| | | 9 | 19.1 | NA |
| | | 12 | 6.3 | 914 |
| TH-4 | 10/28/13 | 3 | 5.7 | 43.3 |
| | | 5 | 2.1 | NA |
| | | 7 | 40.3 | NA |
| | | 9 | 1.2 | NA |
| TH-5 | 10/28/13 | 0 | 1.2 | NA |
| | | 3 | 80.3 | 172 |
| | | 5 | 1.5 | NA |
| | | 8 | 0.6 | NA |
| TH-6 | 10/28/13 | 3 | 0.6 | NA |
| | | 5 | 0.4 | NA |
| | | 8 | 0.3 | NA |
| TH-7 | 10/28/13 | 3 | 3.8 | NA |
| | | 5.5 | 879 | 364 |
| | | 9 | 5.9 | NA |
| TH-8 | 10/28/13 | 3 | 1.6 | NA |
| | | 5.5 | 0.8 | NA |
| | | 9 | 0.9 | NA |
| SC-1 | 11/7/13 | 1 to 18 | 0.5 | 73.4 |
| SC-2 | 11/7/13 | 1 to 18 | 128 | 156 |
| SC-3 | 11/7/13 | 1 to 18 | 0.6 | 85.6 |
| SC-4 | 11/7/13 | 1 to 18 | 0.5 | 20.3 |

| Sample ID | Date Sampled | Sample Depth (ft bgs) | VOCs via OVM (ppm) | Field TPH (mg/kg) |
|-----------------------------|---------------------|------------------------------|---------------------------|--------------------------|
| <i>JANOGA Action Level*</i> | | | 100 | 100 |
| SC-5 | 11/7/13 | 13 | 1,028 | 2,430 |
| | 11/8/13 | 18 | 2,621 | 953 |
| | 11/11/13 | 25 | 2,577 | 317 |

NA – Not Analyzed

*Action level determined by JANOGA (Ref. NMOCD ranking score of 20 per NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993).

Laboratory analyses for TH-3 and TH-5 were used to confirm field screening results of the initial release assessment. Benzene concentrations were reported below laboratory detection limits in both samples. Total BTEX concentrations were reported below laboratory detection limits in TH-3 and at 0.856 mg/kg in TH-5. TPH concentrations as GRO/DRO were detected in TH-3 (1,200 mg/kg) and TH-5 (262 mg/kg).

Laboratory analyses for SC-1 through SC-5 were used to confirm field screening results of the final excavation. Benzene concentrations were reported below laboratory detection limits in each sample. Total BTEX concentrations were reported below laboratory detection limits for samples SC-1 through SC-4, and at 17 mg/kg in SC-5. TPH concentrations as GRO/DRO were reported in SC-2 (19 mg/kg) and SC-5 (1,370 mg/kg). Results are presented in Table 2 and on Figure 4. The laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH
Northeast Haynes #1 Initial Release Assessment and Excavation
October and November 2013

| Sample ID | Date Sampled | Sample Depth (ft bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | GRO (mg/kg) | DRO (mg/kg) |
|-----------------------------|---------------------|------------------------------|------------------------|---------------------------|--------------------|--------------------|
| <i>JANOGA Action Level*</i> | | | 10 | 50 | 100 | |
| TH-3 | 10/28/13 | 12 | <0.12 | <1.12 | <25 | 1,200 |
| TH-5 | 10/28/13 | 3 | <0.050 | 0.856 | 12 | 250 |
| SC-1 | 11/7/13 | 1 to 18 | <0.050 | <0.25 | <5.0 | <10 |
| SC-2 | 11/7/13 | 1 to 18 | <0.050 | <0.25 | <5.0 | 19 |
| SC-3 | 11/7/13 | 1 to 18 | <0.050 | <0.25 | <5.0 | <10 |
| SC-4 | 11/7/13 | 1 to 18 | <0.050 | <0.25 | <5.0 | <10 |
| SC-5 | 11/11/13 | 25 | <0.12 | 17 | 490 | 880 |

NA – Not Analyzed

*Action level determined by JANOGA (Ref. NMOCD ranking score of 20 per
NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993)).

3.0 Conclusions and Recommendations

On October 28, 2013, AES conducted an initial assessment of petroleum contaminated soils associated with a historic release at the Northeast Haynes #1. Action levels for releases are determined by JANOGA and currently reflect a site ranking of 20 per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993).

Initial assessment field screening results above the JANOGA (NMOCD) action level of 100 ppm VOCs and 100 mg/kg TPH were reported in TH-2, TH-3, TH-5, and TH-7. The highest VOC concentration was reported in TH-2 with 4,165 ppm, and the highest field TPH concentration was reported in TH-3 with 1,330 mg/kg.

Laboratory analyses for TH-3 and TH-5 were used to confirm field screening results. Benzene and total BTEX concentrations were reported below the JANOGA action levels of 10 mg/kg and 50 mg/kg, respectively, in each sample. TPH concentrations as GRO/DRO exceeded the JANOGA action level of 100 mg/kg in TH-3 (1,200 mg/kg) and TH-5 (262 mg/kg).

On November 11, 2013, assessment of the excavation area was completed. Field screening results of the excavation extents showed that VOC concentrations were below applicable JANOGA action levels for the final walls of the excavation; however, the base exceeded JANOGA action levels with 2,577 ppm. Field TPH concentrations were below the applicable JANOGA action level of 100 mg/kg for three of the final walls of the excavation; however, JANOGA action levels were exceeded in SC-2 (south wall) with 156 mg/kg and SC-5 (base) with 317 mg/kg. Laboratory analytical results reported benzene and total BTEX concentrations in all samples to be below JANOGA action levels. TPH concentrations as GRO/DRO were reported below the applicable JANOGA action level in SC-1 through SC-4 but were above the action level in SC-5 with 1,370 mg/kg.

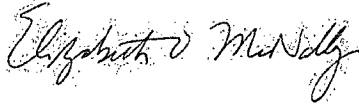
Based on the final field screening and laboratory analytical results of the excavation of petroleum contaminated soils at the Northeast Haynes #1, benzene, total BTEX, and TPH concentrations were below the applicable JANOGA (NMOCD) action levels for the final sidewalls. However, the base of the excavation exceeded applicable JANOGA (NMOCD) action levels for TPH (as GRO/DRO). Additional remedial actions are recommended for the Northeast Haynes #1 release location.

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

Sincerely,



David J. Reese
Environmental Scientist

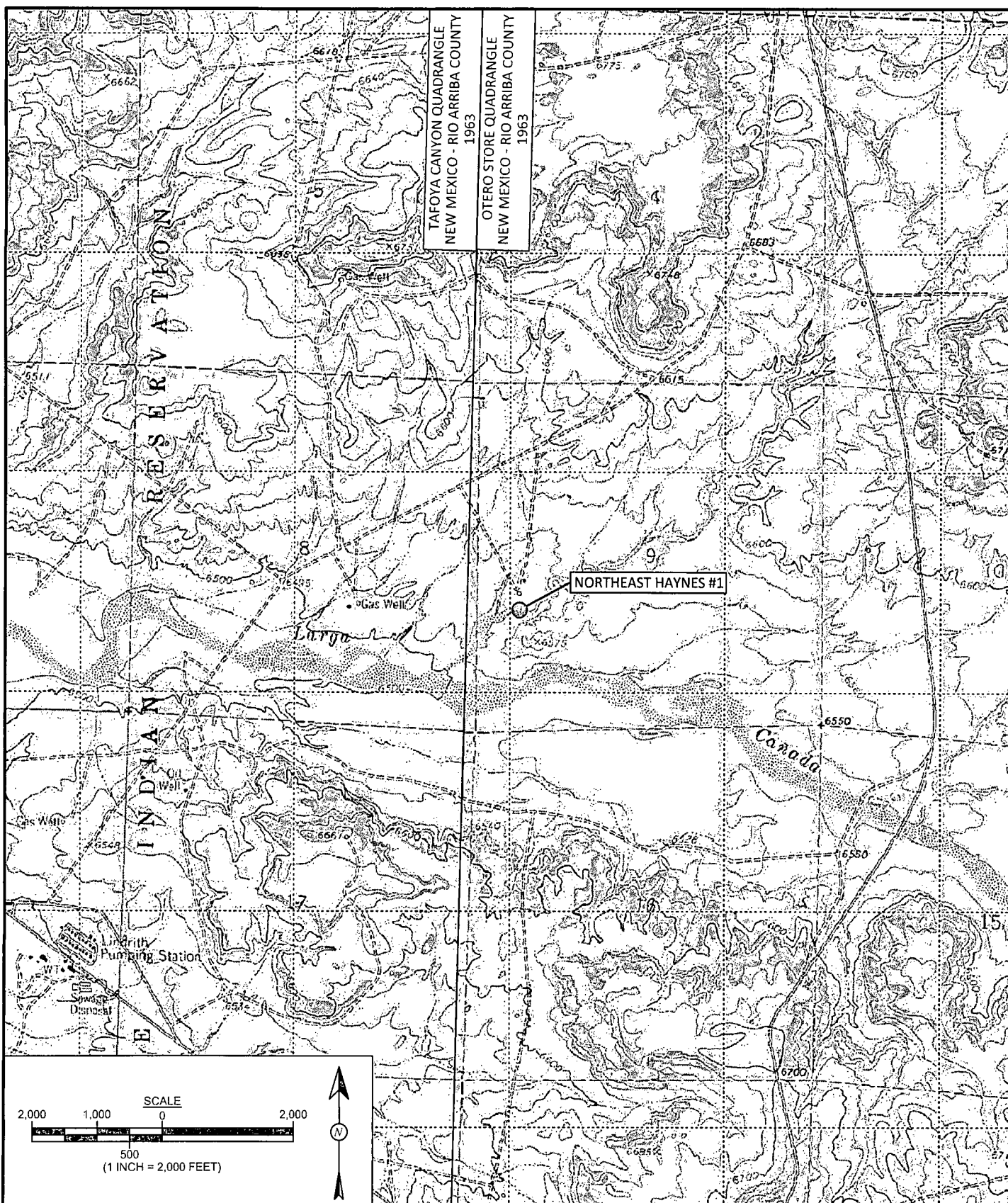


Elizabeth McNally, PE

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map
- Figure 3. Initial Assessment Sample Locations and Results, October 2013
- Figure 4. Final Excavation Sample Locations and Results, November 2013
- AES Field Screening Report 102813
- AES Field Screening Report 110713
- AES Field Screening Report 110813
- AES Field Screening Report 111113
- Hall Laboratory Analytical Report 1310D74
- Hall Laboratory Analytical Report 1311312
- Hall Laboratory Analytical Report 1311431

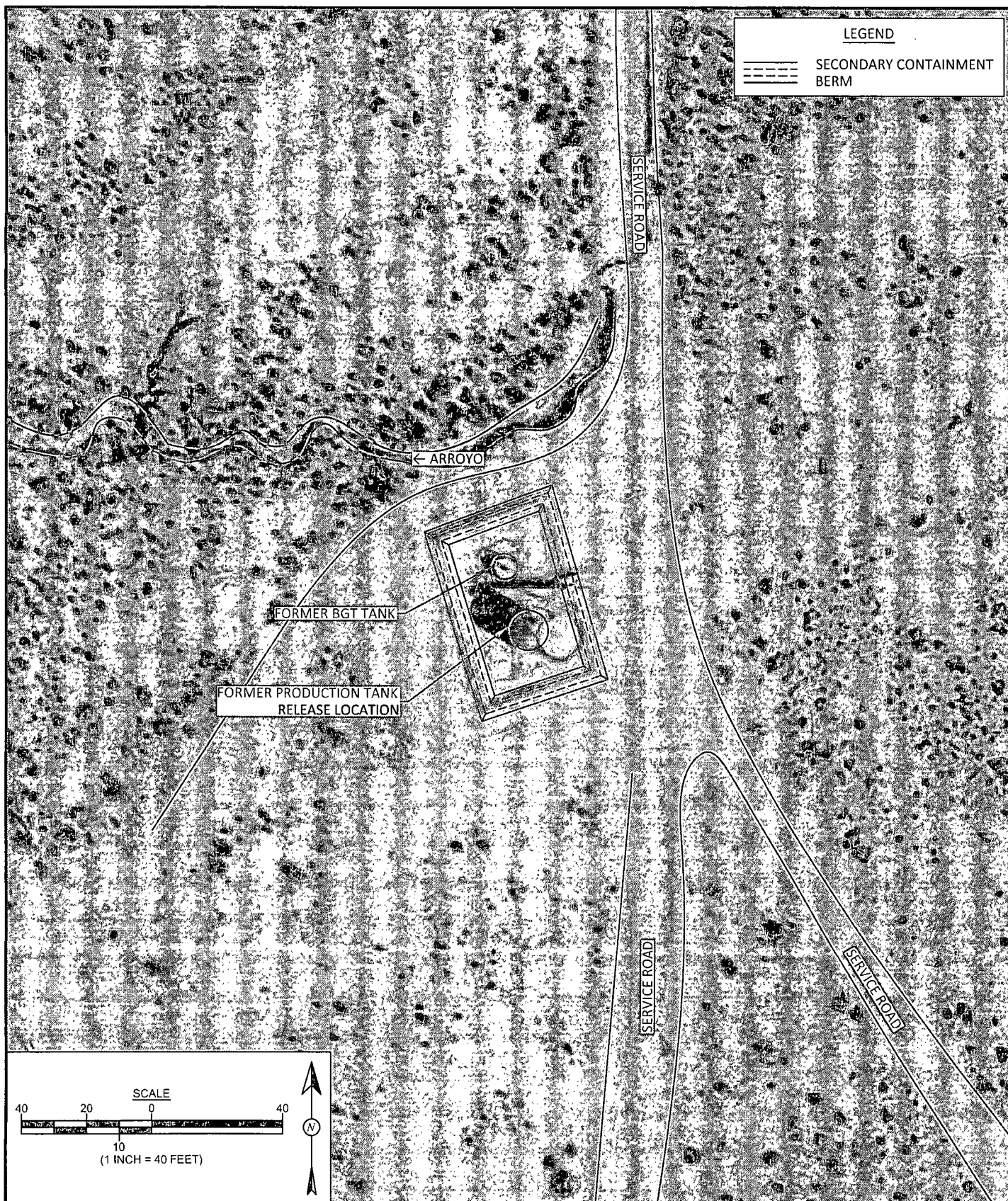
R:\Animas 2000\Dropbox\0000 Animas Server Dropbox EM\2014 Projects\ConocoPhillips\Northeast Haynes #1\Northeast Haynes #1 Release and Final Excavation Report 012314.docx



| | |
|------------------------------------|---|
| DRAWN BY: S. Glasses | DATE DRAWN: November 18, 2013 |
| REVISIONS BY: C. Lameman | DATE REVISED: November 18, 2013 |
| CHECKED BY: D. Watson | DATE CHECKED: January 23, 2014 |
| APPROVED BY: E. McNally | DATE APPROVED: January 23, 2014 |

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
 ConocoPhillips
 NORTHEAST HAYNES #1
 NW¼ SW¼, SECTION 9, T24N, R5W
 RIO ARRIBA COUNTY, NEW MEXICO
 N36.32514, W107.37221



Animas Environmental Services, LLC

DRAWN BY:

S. Glasses

DATE DRAWN:

November 18, 2013

REVISIONS BY:

C. Lameman

DATE REVISED:

November 18, 2013

CHECKED BY:

D. Watson

DATE CHECKED:

January 23, 2014

APPROVED BY:

E. McNally

DATE APPROVED:

January 23, 2014

FIGURE 2

AERIAL SITE MAP

ConocoPhillips
NORTHEAST HAYNES #1
NW¼ SW¼, SECTION 9, T24N, R5W
RIO ARRIBA COUNTY, NEW MEXICO
N36.32514, W107.37221

FIGURE 3

**INITIAL ASSESSMENT SAMPLE
LOCATIONS AND RESULTS
OCTOBER 2013**
ConocoPhillips
NORTHEAST HAYNES #1
NW¼ SW¼ SECTION 9, T24N, R5W
RIO ARRIBA COUNTY, NEW MEXICO
N36.32514, W107.37221

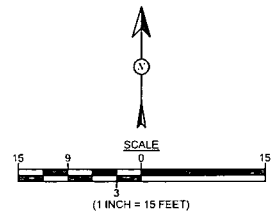


Animas Environmental Services, LLC

| | |
|------------------------------------|---|
| DRAWN BY: C. Lameman | DATE DRAWN: October 30, 2013 |
| REVISIONS BY: C. Lameman | DATE REVISED: January 23, 2014 |
| CHECKED BY: D. Watson | DATE CHECKED: January 23, 2014 |
| APPROVED BY: E. McNally | DATE APPROVED: January 23, 2014 |

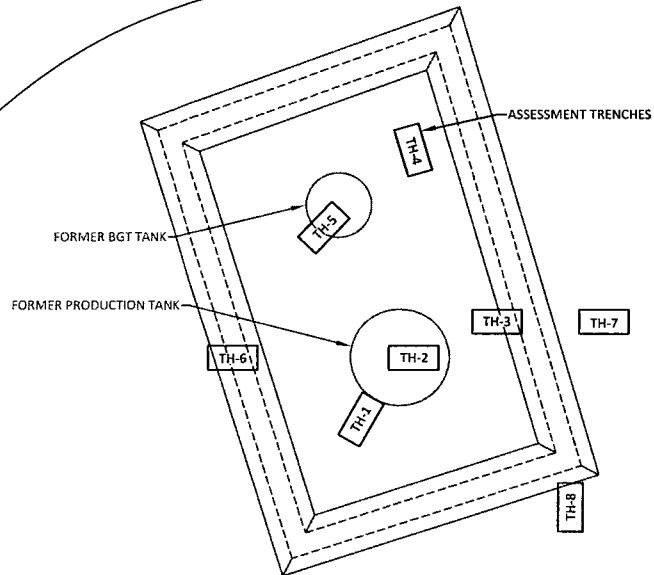
LEGEND

===== SECONDARY CONTAINMENT BERM



| Field Screening Results | | | | |
|----------------------------|----------|------------|----------------|-------------|
| Sample ID | Date | Depth (ft) | OVUM-PID (ppm) | TPH (mg/kg) |
| JANOGA ACTION LEVEL | | | 100 | 100 |
| TH-1 | 10/28/13 | 3 | 18.0 | 72.9 |
| | | 5 | 7.3 | NA |
| | | 7 | 23.2 | NA |
| | | 9 | 30.8 | 71.5 |
| TH-2 | 10/28/13 | 3 | 2,148 | 1,260 |
| | | 5 | 4,165 | NA |
| | | 7 | 12.1 | 112 |
| | | 9 | 22.2 | NA |
| TH-3 | 10/28/13 | 3 | 4,147 | 1,330 |
| | | 5 | 989 | NA |
| | | 7 | 20.1 | 163 |
| | | 9 | 19.1 | NA |
| TH-4 | 10/28/13 | 12 | 6.3 | 914 |
| | | 3 | 5.7 | 43.3 |
| | | 5 | 2.1 | NA |
| | | 7 | 40.3 | NA |
| TH-5 | 10/28/13 | 9 | 1.2 | NA |
| | | 0 | 1.2 | NA |
| | | 3 | 80.3 | 172 |
| | | 5 | 1.5 | NA |
| TH-6 | 10/28/13 | 8 | 0.6 | NA |
| | | 3 | 0.6 | NA |
| | | 5 | 0.4 | NA |
| | | 8 | 0.3 | NA |
| TH-7 | 10/28/13 | 3 | 3.8 | NA |
| | | 5.5 | 879 | 364 |
| | | 9 | 5.9 | NA |
| | | 3 | 1.6 | NA |
| TH-8 | 10/28/13 | 5.5 | 0.8 | NA |
| | | 9 | 0.9 | NA |
| | | 3 | 1.6 | NA |

NA - NOT ANALYZED



| Laboratory Analytical Results | | | | | |
|-------------------------------|----------|------------|-----------------|--------------------|-------------------|
| Sample ID | Date | Depth (ft) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH - GRO (mg/kg) |
| JANOGA ACTION LEVEL | | | 10 | 50 | 100 |
| TH-3 | 10/28/13 | 12 | <0.12 | <1.12 | <25 |
| TH-5 | 10/28/13 | 3 | <0.050 | 0.856 | 12 |

ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND 8015D.

AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

Client: ConocoPhillips

Project Location: Northeast Haynes #1

Date: 10/28/2013

Matrix: Soil

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

Durango, Colorado
970-403-3084

| Sample ID | Collection Date | Collection Time | OVM (ppm) | Field TPH* (mg/kg) | Field TPH Analysis Time | TPH PQL (mg/kg) | DF | TPH Analysts Initials |
|----------------|-----------------|-----------------|-----------|----------------------|-------------------------|-----------------|----|-----------------------|
| TH-1 @ 3' | 10/28/2013 | 10:38 | 18.0 | 72.9 | 11:08 | 20.0 | 1 | KC |
| TH-1 @ 5' | 10/28/2013 | 11:00 | 7.3 | Not Analyzed for TPH | | | | |
| TH-1 @ 7' | 10/28/2013 | 11:05 | 23.2 | Not Analyzed for TPH | | | | |
| TH-1 @ 9' | 10/28/2013 | 11:08 | 30.8 | 71.5 | 11:20 | 20.0 | 1 | KC |
| TH-2 @ 3' | 10/28/2013 | 10:40 | 2,148 | 1,260 | 11:11 | 20.0 | 1 | KC |
| TH-2 @ 5' | 10/28/2013 | 11:11 | 4,165 | Not Analyzed for TPH | | | | |
| TH-2 @ 7' | 10/28/2013 | 11:14 | 12.1 | 112 | 12:44 | 20.0 | 1 | KC |
| TH-2 @ 9' | 10/28/2013 | 11:15 | 22.2 | Not Analyzed for TPH | | | | |
| TH-3 @ 3' | 10/28/2013 | 10:43 | 4,147 | 1,330 | 11:14 | 20.0 | 1 | KC |
| TH-3 @ 5' | 10/28/2013 | 11:19 | 989 | Not Analyzed for TPH | | | | |
| TH-3 @ 7' | 10/28/2013 | 11:21 | 20.1 | 163 | 12:46 | 20.0 | 1 | KC |
| TH-3 @ 9' | 10/28/2013 | 11:23 | 19.1 | Not Analyzed for TPH | | | | |
| TH-3 @ 12' | 10/28/2013 | 11:25 | 6.3 | 914 | 12:37 | 20.0 | 1 | KC |
| TH-4 @ 3' | 10/28/2013 | 10:45 | 5.7 | 43.3 | 11:17 | 20.0 | 1 | KC |
| TH-4 @ 5' | 10/28/2013 | 11:30 | 2.1 | Not Analyzed for TPH | | | | |
| TH-4 @ 7' | 10/28/2013 | 11:33 | 40.3 | Not Analyzed for TPH | | | | |
| TH-4 @ 9' | 10/28/2013 | 11:34 | 1.2 | Not Analyzed for TPH | | | | |
| TH-5 @ surface | 10/28/2013 | 11:40 | 1.2 | Not Analyzed for TPH | | | | |
| TH-5 @ 3' | 10/28/2013 | 11:42 | 80.3 | 172 | 12:35 | 20.0 | 1 | KC |
| TH-5 @ 5' | 10/28/2013 | 11:44 | 1.5 | Not Analyzed for TPH | | | | |
| TH-5 @ 8' | 10/28/2013 | 11:45 | 0.6 | Not Analyzed for TPH | | | | |
| TH-6 @ 3' | 10/28/2013 | 11:50 | 0.6 | Not Analyzed for TPH | | | | |
| TH-6 @ 5' | 10/28/2013 | 11:52 | 0.4 | Not Analyzed for TPH | | | | |

| Sample ID | Collection Date | Collection Time | OVM (ppm) | Field TPH* (mg/kg) | Field TPH Analysis Time | TPH PQL (mg/kg) | DF | TPH Analysts Initials |
|-------------|-----------------|-----------------|-----------|----------------------|-------------------------|-----------------|----|-----------------------|
| TH-6 @ 8' | 10/28/2013 | 11:54 | 0.3 | Not Analyzed for TPH | | | | |
| TH-7 @ 3' | 10/28/2013 | 11:57 | 3.8 | Not Analyzed for TPH | | | | |
| TH-7 @ 5.5' | 10/28/2013 | 11:59 | 879 | 364 | 12:41 | 20.0 | 1 | KC |
| TH-7 @ 9' | 10/28/2013 | 12:01 | 5.9 | Not Analyzed for TPH | | | | |
| TH-8 @ 3' | 10/28/2013 | 12:03 | 1.6 | Not Analyzed for TPH | | | | |
| TH-8 @ 5.5' | 10/28/2013 | 12:05 | 0.8 | Not Analyzed for TPH | | | | |
| TH-8 @ 9' | 10/28/2013 | 12:09 | 0.9 | Not Analyzed for TPH | | | | |

Total Petroleum Hydrocarbons - USEPA 418.1

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

*Field TPH concentrations recorded may be below PQL.

Analyst:

Kelsey Christman

AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

Client: ConocoPhillips

Project Location: Northeast Haynes #1

Date: 11/7/2013

Matrix: Soil

| Sample ID | Collection Date | Time of Sample Collection | Sample Location | OVM (ppm) | Field TPH Analysis Time | Field TPH* (mg/kg) | TPH PQL (mg/kg) | DF | TPH Analysts Initials |
|-----------|-----------------|---------------------------|-----------------|-----------|-------------------------|--------------------|-----------------|----|-----------------------|
| SC-1 | 11/7/2013 | 10:40 | North Wall | 0.5 | 11:22 | 73.4 | 20.0 | 1 | DAW |
| SC-2 | 11/7/2013 | 12:20 | South Wall | 128 | 12:52 | 156 | 20.0 | 1 | DAW |
| SC-3 | 11/7/2013 | 11:45 | East Wall | 0.6 | 12:14 | 85.6 | 20.0 | 1 | DAW |
| SC-4 | 11/7/2013 | 10:42 | West Wall | 0.5 | 11:31 | 20.3 | 20.0 | 1 | DAW |
| SC-5 | 11/7/2013 | 13:30 | Base @ 13' | 1,028 | 13:55 | 2,430 | 20.0 | 1 | DAW |

Total Petroleum Hydrocarbons - USEPA 418.1

DF Dilution Factor

NA Not Analyzed

ND Not Detected at the Reporting Limit

PQL Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL.

Analysts:

AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

Client: ConocoPhillips

Project Location: Northeast Haynes #1

Date: 11/8/2013

Matrix: Soil

| Sample ID | Collection Date | Time of Sample Collection | Sample Location | OVM (ppm) | Field TPH Analysis Time | Field TPH* (mg/kg) | TPH PQL (mg/kg) | DF | TPH Analysts Initials |
|-----------|-----------------|---------------------------|-----------------|-----------|-------------------------|--------------------|-----------------|----|-----------------------|
| SC-5 | 11/8/2013 | 11:07 | Base @ 18' | 2,621 | 11:39 | 953 | 20.0 | 1 | DAW |

Total Petroleum Hydrocarbons - USEPA 418.1

DF Dilution Factor

NA Not Analyzed

ND Not Detected at the Reporting Limit

PQL Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL.

Analyst:

Debrah Wata

AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

Client: ConocoPhillips

Project Location: Northeast Haynes #1

Date: 11/11/2013

Matrix: Soil

| Sample ID | Collection Date | Time of Sample Collection | Sample Location | OVM (ppm) | Field TPH Analysis Time | Field TPH* (mg/kg) | TPH PQL (mg/kg) | DF | TPH Analysts Initials |
|-----------|-----------------|---------------------------|-----------------|-----------|-------------------------|--------------------|-----------------|----|-----------------------|
| SC-5 | 11/11/2013 | 12:25 | Base @ 25' | 2,577 | 12:56 | 317 | 20.0 | 1 | SL |

Total Petroleum Hydrocarbons - USEPA 418.1

DF Dilution Factor

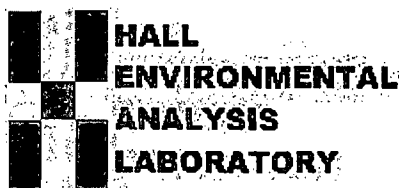
NA Not Analyzed

ND Not Detected at the Reporting Limit

PQL Practical Quantitation Limit

**Field TPH concentrations recorded may be below PQL.*

Analyst:



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

January 24, 2014

Debbie Watson

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-4071

FAX (505) 324-2022

RE: CoP NE Haynes #1

OrderNo.: 1310D74

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 10/29/2013 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued November 14, 2013.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to 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".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1310D74

Date Reported: 1/24/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: TH-3 @ 12'

Project: CoP NE Haynes #1

Collection Date: 10/28/2013 11:25:00 AM

Lab ID: 1310D74-001

Matrix: MEOH (SOIL)

Received Date: 10/29/2013 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | 1200 | 100 | | mg/Kg | 10 | 10/31/2013 12:30:34 PM | 10100 |
| Surr: DNOP | 0 | 66-131 | S | %REC | 10 | 10/31/2013 12:30:34 PM | 10100 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 25 | | mg/Kg | 5 | 10/30/2013 4:32:32 PM | R14452 |
| Surr: BFB | 96.1 | 74.5-129 | | %REC | 5 | 10/30/2013 4:32:32 PM | R14452 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 10/30/2013 4:32:32 PM | R14452 |
| Toluene | ND | 0.25 | | mg/Kg | 5 | 10/30/2013 4:32:32 PM | R14452 |
| Ethylbenzene | ND | 0.25 | | mg/Kg | 5 | 10/30/2013 4:32:32 PM | R14452 |
| Xylenes, Total | ND | 0.50 | | mg/Kg | 5 | 10/30/2013 4:32:32 PM | R14452 |
| Surr: 4-Bromofluorobenzene | 101 | 80-120 | | %REC | 5 | 10/30/2013 4:32:32 PM | R14452 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|-------------|---|---|----|--|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| | J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2 for VOA and TOC only. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1310D74

Date Reported: 1/24/2014

CLIENT: Animas Environmental Services

Client Sample ID: TH-5 @ 3'

Project: CoP NE Haynes #1

Collection Date: 10/28/2013 11:45:00 AM

Lab ID: 1310D74-002

Matrix: MEOH (SOIL)

Received Date: 10/29/2013 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | 250 | 9.9 | | mg/Kg | 1 | 10/31/2013 12:52:38 PM | 10100 |
| Surr: DNOP | 97.3 | 66-131 | | %REC | 1 | 10/31/2013 12:52:38 PM | 10100 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 12 | 5.0 | | mg/Kg | 1 | 10/30/2013 5:36:15 PM | R14452 |
| Surr: BFB | 173 | 74.5-129 | S | %REC | 1 | 10/30/2013 5:36:15 PM | R14452 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 10/30/2013 5:36:15 PM | R14452 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 10/30/2013 5:36:15 PM | R14452 |
| Ethylbenzene | 0.066 | 0.050 | | mg/Kg | 1 | 10/30/2013 5:36:15 PM | R14452 |
| Xylenes, Total | 0.79 | 0.10 | | mg/Kg | 1 | 10/30/2013 5:36:15 PM | R14452 |
| Surr: 4-Bromofluorobenzene | 108 | 80-120 | | %REC | 1 | 10/30/2013 5:36:15 PM | R14452 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|-------------|---|---|----|--|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| | J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2 for VOA and TOC only. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310D74

24-Jan-14

Client: Animas Environmental Services

Project: CoP NE Haynes #1

| | | | | | | | | | | |
|--------------------------------|------------|----------------|------------|-------------|-----------|---|-----------|-------|----------|------|
| Sample ID | MB-10100 | SampType: | MBLK | | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | |
| Client ID: | PBS | Batch ID: | 10100 | | RunNo: | 14468 | | | | |
| Prep Date: | 10/30/2013 | Analysis Date: | 10/31/2013 | | SeqNo: | 415904 | Units: | mg/Kg | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.1 | | 10.00 | | 91.4 | 66 | 131 | | | |

| | | | | | | | | | | |
|-----------------------------|------------|-----|---------------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | LCS-10100 | | SampType: LCS | | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | | Batch ID: 10100 | | RunNo: 14468 | | | | | |
| Prep Date: | 10/30/2013 | | Analysis Date: 10/31/2013 | | SeqNo: 416005 | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 47 | 10 | 50.00 | 0 | 93.2 | 77.1 | 128 | | | |
| Surr: DNOP | 4.4 | | 5.000 | | 88.7 | 66 | 131 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310D74

24-Jan-14

Client: Animas Environmental Services

Project: CoP NE Haynes #1

| | | | | | | | | | | | |
|-------------------------------|-------------|-----|----------------|-------------|------|-----------|----------------------------------|------|--------------|------|--|
| Sample ID | MB-10085 MK | | SampType: | MBLK | | TestCode: | EPA Method 8015D: Gasoline Range | | | | |
| Client ID: | PBS | | Batch ID: | R14452 | | RunNo: | 14452 | | | | |
| Prep Date: | | | Analysis Date: | 10/30/2013 | | SeqNo: | 415568 | | 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 | 950 | | 1000 | | 95.3 | 74.5 | 129 | | | | |

| | | | | | | | | | | |
|-------------------------------|--------------|-----|---------------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | LCS-10085 MK | | SampType: LCS | | TestCode: EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | | Batch ID: R14452 | | RunNo: 14452 | | | | | |
| Prep Date: | | | Analysis Date: 10/30/2013 | | SeqNo: 415570 | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 23 | 5.0 | 25.00 | 0 | 90.9 | 74.5 | 126 | | | |
| Surr: BFB | 1000 | | 1000 | | 105 | 74.5 | 129 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310D74

24-Jan-14

Client: Animas Environmental Services

Project: CoP NE Haynes #1

| | | | | | | | | | | |
|----------------------------|-------------|-------|----------------|-------------|------|-----------|-----------------------------|------|--------------|------|
| Sample ID | MB-10085 MK | | SampType: | MBLK | | TestCode: | EPA Method 8021B: Volatiles | | | |
| Client ID: | PBS | | Batch ID: | R14452 | | RunNo: | 14452 | | | |
| Prep Date: | | | Analysis Date: | 10/30/2013 | | SeqNo: | 415590 | | 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: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 100 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|--------------|-------|----------------|-------------|------|-----------|-----------------------------|------|--------------|------|
| Sample ID | LCS-10085 MK | | SampType: | LCS | | TestCode: | EPA Method 8021B: Volatiles | | | |
| Client ID: | LCSS | | Batch ID: | R14452 | | RunNo: | 14452 | | | |
| Prep Date: | | | Analysis Date: | 10/30/2013 | | SeqNo: | 415591 | | 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 | 93.2 | 80 | 120 | | | |
| Toluene | 0.94 | 0.050 | 1.000 | 0 | 93.7 | 80 | 120 | | | |
| Ethylbenzene | 0.97 | 0.050 | 1.000 | 0 | 96.6 | 80 | 120 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 101 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 99.8 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1310D74

RcptNo: 1

Received by/date:

AG 10/29/13

Logged By: Anne Thorne

10/29/2013 10:00:00 AM

Anne Thorne

Completed By: Anne Thorne

10/29/2013

Anne Thorne

Reviewed By:

[Signature]

10/30/13

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. 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)

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

Person Notified:

Date:

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

| Cooler No. | Temp °C | Condition | Seal Intact | Seal No. | Seal Date | Signed By |
|------------|---------|-----------|-------------|----------|-----------|-----------|
| 1 | 2.4 | Good | Yes | | | |

Client: Animas Environmental
Services

Mailing Address: 624 E. Comanche
Farmington NM 87401

Phone #: 505-524-2281

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time: *Standard per Decm*
☒ Standard *per Decm* *KMS 10/21/11*
☒ Rush *Some Dry*

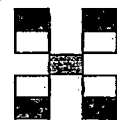
Project Name: C&P NE Haynes #1

| | |
|------------|--|
| Project #: | |
|------------|--|

Project Manager:

D. Watson

| | |
|--------------------|---|
| Sampler: | KC/CL |
| On Ice | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Sample Temperature | 2.4 |



www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

| | | | | | |
|---------|-------|------------------|--------------|----------|------|
| Date: | Time: | Relinquished by: | Received by: | Date | Time |
| 1/29/13 | 630 | [Signature] | Christ Weeks | 1/29/13 | 630 |
| Date: | Time: | Relinquished by: | Received by: | Date | Time |
| 1/29/13 | 637 | Christ Weeks | [Signature] | 10/29/13 | 1005 |

| |
|----------|
| Remarks: |
|----------|

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

January 24, 2014

Debbie Watson
Animas Environmental
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-4071
FAX

RE: COP Northeast Haynes #1

OrderNo.: 1311312

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 11/8/2013 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued November 11, 2013.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to 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 1311312

Date Reported: 1/24/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-1

Project: COP Northeast Haynes #1

Collection Date: 11/7/2013 10:40:00 AM

Lab ID: 1311312-001

Matrix: MEQH (SOIL)

Received Date: 11/8/2013 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 11/8/2013 1:39:50 PM | 10249 |
| Surr: DNOP | 100 | 66-131 | | %REC | 1 | 11/8/2013 1:39:50 PM | 10249 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 11/8/2013 11:59:02 AM | R14664 |
| Surr: BFB | 97.1 | 74.5-129 | | %REC | 1 | 11/8/2013 11:59:02 AM | R14664 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 11/8/2013 11:59:02 AM | R14664 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 11/8/2013 11:59:02 AM | R14664 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 11/8/2013 11:59:02 AM | R14664 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 11/8/2013 11:59:02 AM | R14664 |
| Surr: 4-Bromofluorobenzene | 115 | 80-120 | | %REC | 1 | 11/8/2013 11:59:02 AM | R14664 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|---|---|----|--|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| | J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2 for VOA and TOC only. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Analytical Report

Lab Order 1311312

Date Reported: 1/24/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental**Client Sample ID:** SC-2**Project:** COP Northeast Haynes #1**Collection Date:** 11/7/2013 12:20:00 PM**Lab ID:** 1311312-002**Matrix:** MEOH (SOIL)**Received Date:** 11/8/2013 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | 19 | 9.9 | | mg/Kg | 1 | 11/8/2013 2:10:53 PM | 10249 |
| Surr: DNOP | 95.1 | 66-131 | | %REC | 1 | 11/8/2013 2:10:53 PM | 10249 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 11/8/2013 12:27:30 PM | R14664 |
| Surr: BFB | 93.9 | 74.5-129 | | %REC | 1 | 11/8/2013 12:27:30 PM | R14664 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 11/8/2013 12:27:30 PM | R14664 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 11/8/2013 12:27:30 PM | R14664 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 11/8/2013 12:27:30 PM | R14664 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 11/8/2013 12:27:30 PM | R14664 |
| Surr: 4-Bromofluorobenzene | 111 | 80-120 | | %REC | 1 | 11/8/2013 12:27:30 PM | R14664 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|---|---|----|--|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| | J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2 for VOA and TOC only. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Analytical Report

Lab Order 1311312

Date Reported: 1/24/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-3

Project: COP Northeast Haynes #1

Collection Date: 11/7/2013 11:45:00 AM

Lab ID: 1311312-003

Matrix: MEOH (SOIL)

Received Date: 11/8/2013 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 11/8/2013 3:14:23 PM | 10249 |
| Surr: DNOP | 98.0 | 66-131 | | %REC | 1 | 11/8/2013 3:14:23 PM | 10249 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 11/8/2013 12:56:10 PM | R14664 |
| Surr: BFB | 93.6 | 74.5-129 | | %REC | 1 | 11/8/2013 12:56:10 PM | R14664 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 11/8/2013 12:56:10 PM | R14664 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 11/8/2013 12:56:10 PM | R14664 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 11/8/2013 12:56:10 PM | R14664 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 11/8/2013 12:56:10 PM | R14664 |
| Surr: 4-Bromofluorobenzene | 111 | 80-120 | | %REC | 1 | 11/8/2013 12:56:10 PM | R14664 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|-------------|---|---|----|--|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| | J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2 for VOA and TOC only. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: COP Northeast Haynes #1
Lab ID: 1311312-004

Client Sample ID: SC-4
Collection Date: 11/7/2013 10:42:00 AM
Received Date: 11/8/2013 10:00:00 AM

Matrix: MEOH (SOIL)

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 11/8/2013 3:12:20 PM | 10249 |
| Surr: DNOP | 104 | 66-131 | | %REC | 1 | 11/8/2013 3:12:20 PM | 10249 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 11/8/2013 1:24:49 PM | R14664 |
| Surr: BFB | 91.9 | 74.5-129 | | %REC | 1 | 11/8/2013 1:24:49 PM | R14664 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 11/8/2013 1:24:49 PM | R14664 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 11/8/2013 1:24:49 PM | R14664 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 11/8/2013 1:24:49 PM | R14664 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 11/8/2013 1:24:49 PM | R14664 |
| Surr: 4-Bromofluorobenzene | 109 | 80-120 | | %REC | 1 | 11/8/2013 1:24:49 PM | R14664 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|---|---|----|--|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| | J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2 for VOA and TOC only. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1311312

24-Jan-14

Client: Animas Environmental
Project: COP Northeast Haynes #1

| | | | | | | | | | | |
|--------------------------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | MB-10249 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 10249 | RunNo: | 14634 | | | | | |
| Prep Date: | 11/8/2013 | Analysis Date: | 11/8/2013 | SeqNo: | 421930 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 8.8 | | 10.00 | | 87.6 | 66 | 131 | | | |

| | | | | | | | | | | |
|-----------------------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | LCS-10249 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 10249 | RunNo: | 14634 | | | | | |
| Prep Date: | 11/8/2013 | Analysis Date: | 11/8/2013 | SeqNo: | 421931 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 43 | 10 | 50.00 | 0 | 86.4 | 62.1 | 127 | | | |
| Surr: DNOP | 4.8 | | 5.000 | | 95.8 | 66 | 131 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1311312

24-Jan-14

Client: Animas Environmental
Project: COP Northeast Haynes #1

| | | | | | | | | | | |
|-------------------------------|-------------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID | MB-10237 MK | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | R14664 | RunNo: | 14664 | | | | | |
| Prep Date: | | Analysis Date: | 11/8/2013 | SeqNo: | 422498 | 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 | 950 | | 1000 | | 94.8 | 74.5 | 129 | | | |

| | | | | | | | | | | |
|-------------------------------|--------------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID | LCS-10237 MK | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | R14664 | RunNo: | 14664 | | | | | |
| Prep Date: | | Analysis Date: | 11/8/2013 | SeqNo: | 422499 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 22 | 5.0 | 25.00 | 0 | 87.4 | 74.5 | 126 | | | |
| Surr: BFB | 1000 | | 1000 | | 102 | 74.5 | 129 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1311312

24-Jan-14

Client: Animas Environmental
Project: COP Northeast Haynes #1

| | | | | | | | | | | |
|----------------------------|-------------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID | MB-10237 MK | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | PBS | Batch ID: | R14664 | RunNo: | 14664 | | | | | |
| Prep Date: | | Analysis Date: | 11/8/2013 | SeqNo: | 422527 | 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: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 113 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|--------------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID | LCS-10237 MK | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | LCSS | Batch ID: | R14664 | RunNo: | 14664 | | | | | |
| Prep Date: | | Analysis Date: | 11/8/2013 | SeqNo: | 422528 | 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 | 102 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 104 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 105 | 80 | 120 | | | |
| Xylenes, Total | 3.2 | 0.10 | 3.000 | 0 | 106 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.2 | | 1.000 | | 118 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Anlmas Environmental

Work Order Number: 1311312

RcptNo: 1

Received by/date: mg 11/6/13

Logged By: Lindsay Mangin 11/8/2013 10:00:00 AM

Completed By: Lindsay Mangin 11/8/2013 10:19:47 AM

Reviewed By: mg 11/08/13

Judy Hays

Judy Hays

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. 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)

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

Person Notified:

Date:

By Whom:

Via:

☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1 | 1.0 | Good | Yes | | | |

Client: Animas Environmental
Services LLC

Mailing Address: 624 E Comanche
Farmington NM 87401

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: CoP Northeast Haynes #1

Project Manager:

Sampler: D Watson

On Ice: ☒ Yes ☐ No

Sample Temperature / 0

| Container Type and # | Material | Quantity | Weight | Volume | Value | Remarks |
|----------------------|----------|----------|--------|--------|-------|---------|
| 1 | ... | ... | ... | ... | ... | ... |
| 2 | ... | ... | ... | ... | ... | ... |
| 3 | ... | ... | ... | ... | ... | ... |
| 4 | ... | ... | ... | ... | ... | ... |
| 5 | ... | ... | ... | ... | ... | ... |
| 6 | ... | ... | ... | ... | ... | ... |
| 7 | ... | ... | ... | ... | ... | ... |
| 8 | ... | ... | ... | ... | ... | ... |
| 9 | ... | ... | ... | ... | ... | ... |
| 10 | ... | ... | ... | ... | ... | ... |
| 11 | ... | ... | ... | ... | ... | ... |
| 12 | ... | ... | ... | ... | ... | ... |
| 13 | ... | ... | ... | ... | ... | ... |
| 14 | ... | ... | ... | ... | ... | ... |
| 15 | ... | ... | ... | ... | ... | ... |
| 16 | ... | ... | ... | ... | ... | ... |
| 17 | ... | ... | ... | ... | ... | ... |
| 18 | ... | ... | ... | ... | ... | ... |
| 19 | ... | ... | ... | ... | ... | ... |
| 20 | ... | ... | ... | ... | ... | ... |
| 21 | ... | ... | ... | ... | ... | ... |
| 22 | ... | ... | ... | ... | ... | ... |
| 23 | ... | ... | ... | ... | ... | ... |
| 24 | ... | ... | ... | ... | ... | ... |
| 25 | ... | ... | ... | ... | ... | ... |
| 26 | ... | ... | ... | ... | ... | ... |
| 27 | ... | ... | ... | ... | ... | ... |
| 28 | ... | ... | ... | ... | ... | ... |
| 29 | ... | ... | ... | ... | ... | ... |
| 30 | ... | ... | ... | ... | ... | ... |
| 31 | ... | ... | ... | ... | ... | ... |
| 32 | ... | ... | ... | ... | ... | ... |
| 33 | ... | ... | ... | ... | ... | ... |
| 34 | ... | ... | ... | ... | ... | ... |
| 35 | ... | ... | ... | ... | ... | ... |
| 36 | ... | ... | ... | ... | ... | ... |
| 37 | ... | ... | ... | ... | ... | ... |
| 38 | ... | ... | ... | ... | ... | ... |
| 39 | ... | ... | ... | ... | ... | ... |
| 40 | ... | ... | ... | ... | ... | ... |
| 41 | ... | ... | ... | ... | ... | ... |
| 42 | ... | ... | ... | ... | ... | ... |
| 43 | ... | ... | ... | ... | ... | ... |
| 44 | ... | ... | ... | ... | ... | ... |
| 45 | ... | ... | ... | ... | ... | ... |
| 46 | ... | ... | ... | ... | ... | ... |
| 47 | ... | ... | ... | ... | ... | ... |
| 48 | ... | ... | ... | ... | ... | ... |
| 49 | ... | ... | ... | ... | ... | ... |
| 50 | ... | ... | ... | ... | ... | ... |
| 51 | ... | ... | ... | ... | ... | ... |
| 52 | ... | ... | ... | ... | ... | ... |
| 53 | ... | ... | ... | ... | ... | ... |
| 54 | ... | ... | ... | ... | ... | ... |
| 55 | ... | ... | ... | ... | ... | ... |
| 56 | ... | ... | ... | ... | ... | ... |
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| 58 | ... | ... | ... | ... | ... | ... |
| 59 | ... | ... | ... | ... | ... | ... |
| 60 | ... | ... | ... | ... | ... | ... |
| 61 | ... | ... | ... | ... | ... | ... |
| 62 | ... | ... | ... | ... | ... | ... |
| 63 | ... | ... | ... | ... | ... | ... |
| 64 | ... | ... | ... | ... | ... | ... |
| 65 | ... | ... | ... | ... | ... | ... |
| 66 | ... | ... | ... | ... | ... | ... |
| 67 | ... | ... | ... | ... | ... | ... |
| 68 | ... | ... | ... | ... | ... | ... |
| 69 | ... | ... | ... | ... | ... | ... |
| 70 | ... | ... | ... | ... | ... | ... |
| 71 | ... | ... | ... | ... | ... | ... |
| 72 | ... | ... | ... | ... | ... | ... |
| 73 | ... | ... | ... | ... | ... | ... |
| 74 | ... | ... | ... | ... | ... | ... |
| 75 | ... | ... | ... | ... | ... | ... |
| 76 | ... | ... | ... | ... | ... | ... |
| 77 | ... | ... | ... | ... | ... | ... |
| 78 | ... | ... | ... | ... | ... | ... |
| 79 | ... | ... | ... | ... | ... | ... |

Preservative
Type

HEAL No.

~~Went to Vet~~
~~11/1/02~~

Met 11

-0001

| | | | |
|--|--|--|--|
| | | | |
| | | | |
| | | | |
| | | | |

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

| | | |
|---------|-------|------------------|
| Date: | Time: | Relinquished by: |
| 11/8/13 | 630 | Deborah Watten |

Received by: Master Warte Date 11/8/13 Time 630

| | |
|----------|-------------------------|
| Remarks: | Bill to Conoco Phillips |
|----------|-------------------------|

| | | |
|---------|-------|------------------|
| Date: | Time: | Relinquished by: |
| 11/8/13 | 6:15 | Christi Welch |

| | | |
|--------------|----------|------|
| Received by: | Date | Time |
| Michelle G | 10/08/13 | 1000 |

If necessary, samples submitted to Hal Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



*Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

January 24, 2014

Debbie Watson
Animas Environmental
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-4071
FAX

RE: CoP NE Haynes #1

OrderNo.: 1311431

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/12/2013 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued November 13, 2013.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to 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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1311431

Date Reported: 1/24/2014

CLIENT: Animas Environmental

Client Sample ID: SC-5 @ 25'

Project: CoP NE Haynes #1

Collection Date: 11/11/2013 12:25:00 PM

Lab ID: 1311431-001

Matrix: MEOH (SOIL)

Received Date: 11/12/2013 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|------------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | 880 | 99 | | mg/Kg | 10 | 11/12/2013 1:00:12 PM | 10292 |
| Surr: DNOP | 0 | 66-131 | S | %REC | 10 | 11/12/2013 1:00:12 PM | 10292 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 490 | 25 | | mg/Kg | 5 | 11/12/2013 12:55:54 PM | R14740 |
| Surr: BFB | 993 | 74.5-129 | S | %REC | 5 | 11/12/2013 12:55:54 PM | R14740 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 11/12/2013 12:55:54 PM | R14740 |
| Toluene | ND | 0.25 | | mg/Kg | 5 | 11/12/2013 12:55:54 PM | R14740 |
| Ethylbenzene | ND | 0.25 | | mg/Kg | 5 | 11/12/2013 12:55:54 PM | R14740 |
| Xylenes, Total | 17 | 0.50 | | mg/Kg | 5 | 11/12/2013 12:55:54 PM | R14740 |
| Surr: 4-Bromofluorobenzene | 153 | 80-120 | S | %REC | 5 | 11/12/2013 12:55:54 PM | R14740 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| | | | | |
|--------------------|---|---|----|--|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| | J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| | O | RSD is greater than RSDlimit | P | Sample pH greater than 2 for VOA and TOC only. |
| | R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| | S | Spike Recovery outside accepted recovery limits | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1311431

24-Jan-14

Client: Animas Environmental

Project: CoP NE Haynes #1

| | | | | | | | | | | |
|--------------------------------|------------|----------------|------------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | MB-10292 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 10292 | RunNo: | 14724 | | | | | |
| Prep Date: | 11/12/2013 | Analysis Date: | 11/12/2013 | SeqNo: | 424197 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 8.8 | | 10.00 | | 87.6 | 66 | 131 | | | |

| | | | | | | | | | | |
|-----------------------------|------------|----------------|------------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | LCS-10292 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 10292 | RunNo: | 14724 | | | | | |
| Prep Date: | 11/12/2013 | Analysis Date: | 11/12/2013 | SeqNo: | 424198 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 47 | 10 | 50.00 | 0 | 94.4 | 62.1 | 127 | | | |
| Surr: DNOP | 4.7 | | 5.000 | | 94.1 | 66 | 131 | | | |

| | | | | | | | | | | |
|-----------------------------|----------------|----------------|------------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | 1311337-001AMS | SampType: | MS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | BatchQC | Batch ID: | 10292 | RunNo: | 14753 | | | | | |
| Prep Date: | 11/12/2013 | Analysis Date: | 11/13/2013 | SeqNo: | 425368 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 44 | 10 | 50.20 | 0 | 86.8 | 47.4 | 148 | | | |
| Surr: DNOP | 5.4 | | 5.020 | | 108 | 66 | 131 | | | |

| | | | | | | | | | | |
|-----------------------------|-----------------|----------------|------------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | 1311337-001AMSD | SampType: | MSD | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | BatchQC | Batch ID: | 10292 | RunNo: | 14753 | | | | | |
| Prep Date: | 11/12/2013 | Analysis Date: | 11/13/2013 | SeqNo: | 425394 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 43 | 10 | 49.80 | 0 | 85.6 | 47.4 | 148 | 2.25 | 22.7 | |
| Surr: DNOP | 5.1 | | 4.980 | | 103 | 66 | 131 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1311431

24-Jan-14

Client: Animas Environmental

Project: CoP NE Haynes #1

| | | | | | | | | | | |
|-------------------------------|-------------|----------------|------------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID | MB-10281 MK | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | R14740 | RunNo: | 14740 | | | | | |
| Prep Date: | | Analysis Date: | 11/12/2013 | SeqNo: | 424557 | 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 | 920 | | 1000 | | 92.4 | 74.5 | 129 | | | |

| | | | | | | | | | | |
|-------------------------------|--------------|----------------|------------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID | LCS-10281 MK | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | R14740 | RunNo: | 14740 | | | | | |
| Prep Date: | | Analysis Date: | 11/12/2013 | SeqNo: | 424558 | 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 | 99.9 | 74.5 | 126 | | | |
| Surr: BFB | 980 | | 1000 | | 98.2 | 74.5 | 129 | | | |

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
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
P Sample pH greater than 2 for VOA and TOC only.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1311431

24-Jan-14

Client: Animas Environmental

Project: CoP NE Haynes #1

| | | | | | | | | | | |
|----------------------------|-------------|----------------|------------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID | MB-10281 MK | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | PBS | Batch ID: | R14740 | RunNo: | 14740 | | | | | |
| Prep Date: | | Analysis Date: | 11/12/2013 | SeqNo: | 424628 | 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: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 111 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|--------------|----------------|------------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID | LCS-10281 MK | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | LCSS | Batch ID: | R14740 | RunNo: | 14740 | | | | | |
| Prep Date: | | Analysis Date: | 11/12/2013 | SeqNo: | 424629 | 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 | 99.7 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 102 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 102 | 80 | 120 | | | |
| Xylenes, Total | 3.1 | 0.10 | 3.000 | 0 | 104 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.2 | | 1.000 | | 116 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1311431

RcptNo: 1

Received by/date:

Logged By: Michelle Garcia

11/12/2013 10:00:00 AM

Michelle Garcia

Completed By: Michelle Garcia

11/12/2013 10:07:48 AM

Michelle Garcia

Reviewed By:

Chain of Custody

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

Log In

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

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

Person Notified:

Date:

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

| Cooler No. | Temp $^{\circ}\text{C}$ | Condition | Seal Intact? | Seal No. | Seal Date | Signed By |
|------------|-------------------------|-----------|--------------|----------|-----------|-----------|
| 1 | 1.0 | Good | Yes | | | |

Client: Animas Environmental Services, LLC

Mailing Address: 624 E. Comanche
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other _____

☐ EDD (Type) _____

☐ Standard ☒ Rush same day

CoP NE Haynes #1

Project #:

Project Manager:

D. Watson

Sampler: S. Lyman

On Ice: ☒ Yes ☐ No

Sample Temperature

| Container Type and # | Preservative Type |
|-------------------------|----------------------|
|-------------------------|----------------------|

| Preservation Type |
|-------------------|
|-------------------|

HEAL No.

131431

| | |
|-------------------------------|-------------|
| MeOH K ₁₇ 1-402 | MeOH non |
|-------------------------------|-------------|

MeOH non

-001

BTEX + ~~1,2,3,4~~ + ~~1,2,3,4~~'s (8021)

BTEX + MTBE + TPH (Gas only)

TPH 8015B (GRO / DRO / ~~PHOS~~)

TPH (Method 418.1)

EDB (Method 504.1)

PAH's (8310 or 8270 SIMS)

RCRA 8 Metals

Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)

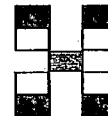
8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

100

Air Bubbles (Y or N)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109


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

Analysis Request

| | | |
|---------|-------|------------------|
| Date: | Time: | Relinquished by: |
| 7/11/13 | 1716 | Stephanie Flynn |

| | | |
|---------|-------|------------------|
| Date: | Time: | Relinquished by: |
| 4/11/13 | 1740 | Christine Walter |

Received by: Christine Watson Date 11/11/13 Time 1716

| | | |
|---|---------|------|
| Received by: | Date | Time |
|  | 11/2/13 | 1000 |

Remarks: B.Y. to Conoco Phillips

Added MRO per Debbie Watson.
KMS 11/12/13.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.