

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

REVISED - Added Closure Date  
and revised lat/long

Form C-144  
sed June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.  
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or  
**13145 Proposed Alternative Method Permit or Closure Plan Application**  
**OIL CONS. DIV DIST. 3**

Type of action: ☐ Below grade tank registration  
☐ Permit of a pit or proposed alternative method  
**45-06118** ☒ Closure of a pit, below-grade tank, or proposed alternative method  
☐ Modification to an existing permit/or registration  
☐ Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

**OCT 14 2015**

**Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request**

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.  
Operator: ConocoPhillips Company OGRID #: 217817  
Address: PO BOX 4289, Farmington, NM 87499  
Facility or well name: State Com AI 33  
API Number: 30-045-06118 OCD Permit Number: \_\_\_\_\_  
U/L or Qtr/Qtr N Section 32 Township 27N Range 09W County: San Juan  
Center of Proposed Design: Latitude 36.52753°N Longitude -107.81503°W NAD: ☐ 1927 ☒ 1983  
Surface Owner: ☐ Federal ☒ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.  
☐ **Pit:** Subsection F, G or J of 19.15.17.11 NMAC  
Temporary: ☐ Drilling ☐ Workover  
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no  
☐ Lined ☐ Unlined Liner type: Thickness \_\_\_\_\_ mil ☒ LLDPE ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_  
☐ String-Reinforced  
Liner Seams: ☐ Welded ☐ Factory ☐ Other \_\_\_\_\_ Volume: \_\_\_\_\_ bbl Dimensions: L \_\_\_\_\_ x W \_\_\_\_\_ x D \_\_\_\_\_

3.  
☒ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC  
Volume: 120 bbl Type of fluid: Produced Water  
Tank Construction material: Metal  
☐ Secondary containment with leak detection ☒ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other \_\_\_\_\_  
Liner type: Thickness 45 mil ☐ HDPE ☐ PVC ☒ Other LLDPE

4.  
☐ **Alternative Method:**  
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.  
**Fencing:** Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)  
☐ Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)  
☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet  
☐ Alternate. Please specify \_\_\_\_\_

55  
clw



6.

**Netting:** Subsection E of 19.15.17.11 NMAC (*Applies to permanent pits and permanent open top tanks*)

- ☐ Screen ☐ Netting ☐ Other \_\_\_\_\_
- ☐ Monthly inspections (If netting or screening is not physically feasible)

7.

**Signs:** Subsection C of 19.15.17.11 NMAC

- ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
- ☐ Signed in compliance with 19.15.16.8 NMAC

8.

**Variances and Exceptions:**

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

**Please check a box if one or more of the following is requested, if not leave blank:**

- ☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.
- ☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

9.

**Siting Criteria (regarding permitting):** 19.15.17.10 NMAC

**Instructions:** The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

**General siting**

**Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.**

- ☐ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☐ Data obtained from nearby wells

☐ Yes ☐ No  
☒ NA

**Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.**

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No  
☒ NA

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (**Does not apply to below grade tanks**)

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☐ No

Within the area overlying a subsurface mine. (**Does not apply to below grade tanks**)

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ No

Within an unstable area. (**Does not apply to below grade tanks**)

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

☐ Yes ☐ No

Within a 100-year floodplain. (**Does not apply to below grade tanks**)

- FEMA map

☐ Yes ☐ No

**Below Grade Tanks**

Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☒ No

Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☒ No

**Temporary Pit using Low Chloride Drilling Fluid** (maximum chloride content 15,000 mg/liter)

Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.

NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No



Within 100 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

### **Temporary Pit Non-low chloride drilling fluid**

Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 300 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

### **Permanent Pit or Multi-Well Fluid Management Pit**

Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

☐ Yes ☐ No

Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 500 feet of a wetland.

- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

10.

#### **Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:** Subsection B of 19.15.17.9 NMAC

**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_ or Permit Number: \_\_\_\_\_

11.

#### **Multi-Well Fluid Management Pit Checklist:** Subsection B of 19.15.17.9 NMAC

**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ A List of wells with approved application for permit to drill associated with the pit.
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
- ☐ Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_ or Permit Number: \_\_\_\_\_



12. **Permanent Pits Permit Application Checklist:** Subsection B of 19.15.17.9 NMAC

**Instructions:** Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Quality Control/Quality Assurance Construction and Installation Plan
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Nuisance or Hazardous Odors, including H<sub>2</sub>S, Prevention Plan
- ☐ Emergency Response Plan
- ☐ Oil Field Waste Stream Characterization
- ☐ Monitoring and Inspection Plan
- ☐ Erosion Control Plan
- ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

13. **Proposed Closure:** 19.15.17.13 NMAC

**Instructions:** Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

- Type: ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☐ Below-grade Tank ☐ Multi-well Fluid Management Pit  
☐ Alternative
- Proposed Closure Method: ☒ Waste Excavation and Removal  
☐ Waste Removal (Closed-loop systems only)  
☐ On-site Closure Method (Only for temporary pits and closed-loop systems)  
☐ In-place Burial ☐ On-site Trench Burial  
☐ Alternative Closure Method

14. **Waste Excavation and Removal Closure Plan Checklist:** (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.

- ☒ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☒ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC
- ☒ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- ☒ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☒ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☒ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15. **Siting Criteria (regarding on-site closure methods only):** 19.15.17.10 NMAC

**Instructions:** Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

|                                                                                                                                                                                                                                                                                             |                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Ground water is less than 25 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells                                                                                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> NA |
| Ground water is between 25-50 feet below the bottom of the buried waste<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells                                                                                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> NA |
| Ground water is more than 100 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells                                                                                                              | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> NA |
| Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).<br>- Topographic map; Visual inspection (certification) of the proposed site                        | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.<br>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application.<br>- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Written confirmation or verification from the municipality; Written approval obtained from the municipality                                                                                                                                                                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Within 300 feet of a wetland.<br>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site                                                                                                                                   | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance                                                                                                                                                           |                                                                                         |



adopted pursuant to NMSA 1978, Section 3-27-3, as amended.

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☐ No

Within the area overlying a subsurface mine.

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ No

Within an unstable area.

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

☐ Yes ☐ No

Within a 100-year floodplain.

- FEMA map

☐ Yes ☐ No

16.

**On-Site Closure Plan Checklist:** (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  
☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC  
☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC  
☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC  
☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  
☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC  
☐ Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC  
☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)  
☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17.

**Operator Application Certification:**

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

e-mail address: \_\_\_\_\_ Telephone: \_\_\_\_\_

18.

**OCD Approval:** ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: Vanessa [Signature] Approval Date: 12/22/2015

Title: Environmental Specialist OCD Permit Number: \_\_\_\_\_

19.

**Closure Report (required within 60 days of closure completion):** 19.15.17.13 NMAC

*Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.*

☒ Closure Completion Date: 2/20/15

20.

**Closure Method:**

- ☒ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)  
☐ If different from approved plan, please explain.

21.

**Closure Report Attachment Checklist:** *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

- ☒ Proof of Closure Notice (surface owner and division)  
☐ Proof of Deed Notice (required for on-site closure for private land only)  
☐ Plot Plan (for on-site closures and temporary pits)  
☒ Confirmation Sampling Analytical Results (if applicable)  
☐ Waste Material Sampling Analytical Results (required for on-site closure)  
☐ Disposal Facility Name and Permit Number  
☒ Soil Backfilling and Cover Installation  
☒ Re-vegetation Application Rates and Seeding Technique  
☒ Site Reclamation (Photo Documentation)  
On-site Closure Location: Latitude N Longitude W NAD: ☐ 1927 ☐ 1983



**Operator Closure Certification:**

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Dollie L. Busse Title: Staff Regulatory Technician

Signature: 

Date: 10/13/15

e-mail address: dollie.l.busse@cop.com Telephone: (505) 324-6104



**ConocoPhillips Company  
San Juan Basin  
Below Grade Tank Closure Report**

**Lease Name: State Com AI 33**  
**API No.: 30-045-06118**

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure of the below-grade tank referenced above. All proper documentation regarding closure activities is being included with the C-144.

General Plan:

1. COPC shall close a below-grade tank within 60 days of cessation of operations per Subsection G.4 of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
2. **The below-grade tank referenced above was permitted and closed within 60 days of cessation of the below-grade tanks operation.**
3. COPC shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005), JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.

**All recovered liquids were disposed of at Basin Disposal (Permit #NM-01-005) and any sludge or soil required to be removed to facilitate closure was hauled to Envirotech Land Farm (Permit #NM-01-011) and JFJ Landfarm % IEI (Permit #NM-01-0010B). The liner was cleaned per Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC was disposed of at the San Juan County Regional Landfill located on CR 3100.**

4. COPC Will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.

**The below-grade tank was disposed of in a division-approved manner.**

5. If there is any on-site equipment associated with a below-grade tank, then COPC shall remove the equipment, unless the equipment is required for some other purpose.

**All on-site equipment associated with the below-grade tank was removed.**

6. COPC will test the soils beneath the below-grade tank to determine whether a release has occurred. COPC shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyzed for the constituents listed in Table I of 19.15.17.13 NMAC. COPC shall notify the division of its results on form C-141.



7. A five point composite sample was taken of the below-grade tank using sampling tools and all samples tested per Subsection B of 19.15.17.13 (B)(1)(b). (Sample results attached).

| Components | Tests Method              | Limit (mg/kg) |
|------------|---------------------------|---------------|
| Benzene    | EPA SW-846 8021B or 8260B | 0.2           |
| BTEX       | EPA SW-846 8021B or 8260B | 50            |
| TPH        | EPA SW-846 418.1          | 100           |
| Chlorides  | EPA 300.1                 | 250           |

8. If COPC or the division determines that a release has occurred, then COPC shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

**A release was determined for the above referenced well.**

9. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Table I of 19.15.17.13 NMAC, then COPC shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.

**The sampling method utilized was the 8015M Method instead of the 418.1 Method as required in Subsection B of 19.15.17.13 (B)(1)(b) – if the 418.1 method was used, please hide this statement before you print.**

**The below-grade tank area passed all requirements of Paragraph (4) of Subsection E of 19.15.17.13 NMAC and was backfilled with compacted, non-waste containing, earthen material.**

10. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
- Operator's name
  - Location by Unit Letter, Section, Township, and Range. Well name and API number.

**Notification is missing due to employee turnovers. ConocoPhillips has reviewed our internal processes and has updated them to include the required 72 hour notification.**

11. The surface owner shall be notified of COPC's closing of the below-grade tank 72 hours, but not more than one week, prior to closure as per the approved closure plan via certified mail, return receipt requested.

**The closure process notification to the landowner not found. COPC was not aware that the original notification sent at the time of Permitting was not the only closure notification required.**

**ConocoPhillips has reviewed our internal processes and has updated them to include the required 72 hour notification.**

12. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.

**The below-grade tank area was re-contoured to match fit, shape, line, form and texture of the surrounding area. Re-shaping, including drainage control, to prevent ponding and erosion. Natural drainages were unimpeded and water bars and/or silt traps were placed in areas where needed to prevent erosion on a large scale. Final recontour has a uniform appearance with smooth surface, fitting the natural landscape.**



13. COPC Shall seed the disturbed areas the first favorable growing season following closure of a below-grade tank. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will be used on federally regulated lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. A uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre-disturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. COPC will repeat seeding or planting will be continued until successful vegetative growth occurs.

**Provision 13 was accomplished through complying with BLM seeding requirements as allowed by the BLM/OCD MOU.**

14. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material, with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.

**The below-grade tank area was backfilled and more than four feet of cover was achieved and the cover included one foot of suitable material to establish vegetation at the site.**

15. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on C-144 and incorporate the following:

- Soil Backfilling and Cover Installation (**See Report**)
- Re-vegetation application rates and seeding techniques (**See Report**)
- Photo documentation of the site reclamation (**Included as an attachment**)
- Confirmation Sampling Results (**Included as an attachment**)
- Proof of closure notice (**Included as an attachment**)

**Closure Documentation was not submitted within the 60 day requirement due to employee turnovers.**

**ConocoPhillips has reviewed our internal processes and has updated them to ensure closure documentation is submitted with the 60 day time frame.**





August 31, 2015

Lindsay Dumas  
ConocoPhillips  
San Juan Business Unit  
(505) 599-4089

*Via electronic mail to:*  
[SJBUE-Team@ConocoPhillips.com](mailto:SJBUE-Team@ConocoPhillips.com)

**RE: Below Grade Tank Closure, Release Assessment, and Final Excavation Report  
State Com AI #33  
San Juan County, New Mexico**

Dear Ms. Dumas:

On February 20 and March 6, 2015, Animas Environmental Services, LLC (AES) completed below grade tank (BGT) closure sampling, a release assessment, and environmental clearance of the final excavation limits at the ConocoPhillips (COPC) State Com AI #33 located in San Juan County, New Mexico. The historic contamination was discovered during BGT closure activities at the location. An initial release assessment was completed on February 20, 2015, and the final excavation was completed by COPC contractors while AES was on location on March 6, 2015.

---

## 1.0 Site Information

### 1.1 Location

Site Name – State Com AI #33

Location – SE¼ SW¼, Section 32, T27N, R9W, San Juan County, New Mexico

Well Head Latitude/Longitude – N36.52776 and W107.81497, respectively

BGT/Release Location Latitude/Longitude – N36.52753 and W107.81503, respectively

Land Jurisdiction – State of New Mexico

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, February 2015

604 W. Piñon St.  
Farmington, NM 87401  
505-564-2281

1911 Main, Ste 280  
Durango, CO 81301  
970-403-3084



## 1.2 NMOCD Ranking

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to site work. The release was given a ranking score of 10 based on the following factors:

- **Depth to Groundwater:** A below grade tank permit application (C-144 form) from February 2015 reported the depth to groundwater as 330 feet below ground surface (bgs). (0 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** An unnamed ephemeral stream located approximately 535 feet northeast of the release location drains to Jaquez Canyon. (10 points)

## 1.3 Assessment

AES was initially contacted by Danny Rudder, COPC representative, on February 19, 2015, and on February 20, 2015, Dylan Davis and Sam Glasses of AES traveled to the location. Soil sampling consisted of collection of five soil samples (S-1 through S-5) and one 5-point composite (BGT SC-1) from below the former BGT. Soil samples S-1 through S-5 were collected from approximately 0.5 feet below the BGT. Soil sample locations are included on Figure 2.

On the same day, AES personnel completed the release assessment field work. The assessment included collection and field sampling of 20 soil samples from 8 soil test holes (TH-1 through TH-8). Based on field sampling results, AES recommended excavation of the release area. Sample locations are included on Figure 3.

On March 6, 2015, AES returned to the location to collect confirmation soil samples of the excavation. The field sampling activities included collection of five confirmation soil samples (SC-1 through SC-5) from the walls and base of the excavation. The area of the final excavation measured approximately 37 feet by 43 feet by 11 to 13 feet in depth. The depth of the excavation was limited due to a confining sandstone unit around 13 feet bgs. Sample locations and final excavation extents are presented on Figure 4.

---

## 2.0 Soil Sampling

A total of 26 soil samples (from TH-1 through TH-8 and S-1 through S-5) and 6 composite samples (BGT SC-1 and SC-1 through SC-5) were collected during the



assessments. Selected soil samples were field screened for volatile organic compounds (VOCs), and selected samples were analyzed for total petroleum hydrocarbon (TPH). All composite samples (BGT SC-1 and SC-1 through SC-5) collected were submitted for confirmation laboratory analysis.

## **2.1 Field Sampling**

### **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**

Soil samples were also analyzed in the field for TPH per U.S. Environmental Protection Agency (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*.

### **2.1.3 Chlorides**

Soil sample BGT SC-1 was field screened for chlorides using Chloride Drop Count Titration with silver nitrate. Sampling and analysis methods followed procedures provided by Hach Company.

## **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 sample chain of custody records. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. Soil samples BGT SC-1 and SC-1 through SC-5 were laboratory analyzed for:

- TPH per USEPA Method 8015D, and
- Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B.

In addition, composite soil sample BGT SC-1 was also laboratory analyzed for:

- Chlorides per USEPA Method 300.0.



### 2.3 Field and Laboratory Analytical Results

On February 20, 2015, BGT closure field screening results for VOCs via OVM ranged from 3,416 ppm in S-5 to 4,212 ppm in S-1. TPH values were greater than 2,500 mg/kg in samples S-1 through S-5. The field chloride concentration was 140 mg/kg.

On February 20, 2015, initial assessment field screening readings for VOCs via OVM ranged from 0.0 ppm in TH-3 and TH-7 and up to 1,331 ppm in TH-5. Field TPH concentrations ranged from less than 20.0 mg/kg in TH-2, TH-3, TH-4, and TH-6 up to greater than 2,500 mg/kg in TH-1.

On March 6, 2015, final excavation field screening results for VOCs via OVM ranged from 1.6 ppm in SC-1 up to 1,423 ppm in SC-5. Field TPH concentrations ranged from less than 20 mg/kg in SC-1 up to 830 mg/kg in SC-5. Field screening VOC and TPH results are summarized in Table 1 and on Figures 2 through 4. The AES field sampling reports are attached.

Table 1. Soil Field VOCs, TPH, and Chloride Results  
State Com AI #33 BGT Closure, Release Assessment and Final Excavation  
February and March 2015

| Sample ID           | Date Sampled | Sample Depth (ft bgs) | VOCs via OVM (ppm) | Field TPH (mg/kg) | Field Chlorides (mg/kg) |
|---------------------|--------------|-----------------------|--------------------|-------------------|-------------------------|
| NMOCD Action Level* |              |                       | NE/100             | 100/1,000         | 250/NE                  |
| S-1                 | 2/20/15      | 0.5                   | 4,212              | >2,500            | NA                      |
| S-2                 | 2/20/15      | 0.5                   | 3,521              | >2,500            | NA                      |
| S-3                 | 2/20/15      | 0.5                   | 3,820              | >2,500            | NA                      |
| S-4                 | 2/20/15      | 0.5                   | 3,746              | >2,500            | NA                      |
| S-5                 | 2/20/15      | 0.5                   | 3,416              | >2,500            | NA                      |
| BGT SC-1            | 2/20/15      | 0.5                   | 4,258              | NA                | 140                     |
| TH-1                | 2/20/15      | 8                     | 3,964              | >2,500            | NA                      |
| TH-2                | 2/20/15      | 4                     | 3.8                | NA                | NA                      |
|                     |              | 8                     | 0.8                | <20.0             | NA                      |
|                     |              | 11                    | NA                 | <20.0             | NA                      |
| TH-3                | 2/20/15      | 4                     | 0.0                | NA                | NA                      |
|                     |              | 8                     | 2.2                | NA                | NA                      |
|                     |              | 11                    | NA                 | <20.0             | NA                      |
| TH-4                | 2/20/15      | 8                     | 0.6                | NA                | NA                      |



|      |         |          |              |              |    |
|------|---------|----------|--------------|--------------|----|
|      |         | 10       | 1.2          | <20.0        | NA |
|      |         | 6        | <b>1,331</b> | NA           | NA |
| TH-5 | 2/20/15 | 8        | 14.5         | NA           | NA |
|      |         | 10       | NA           | <b>1,037</b> | NA |
|      |         | 4        | 2.3          | NA           | NA |
| TH-6 | 2/20/15 | 8        | NA           | <20.0        | NA |
|      |         | 11       | 0.7          | <20.0        | NA |
|      |         | 4        | 0.4          | 29.7         | NA |
| TH-7 | 2/20/15 | 8        | NA           | 32.2         | NA |
|      |         | 11       | 0.0          | 32.2         | NA |
|      |         | 4        | NA           | 37.0         | NA |
| TH-8 | 2/20/15 | 8        | NA           | 33.4         | NA |
|      |         | 11       | 0.6          | 43.0         | NA |
| SC-1 | 3/6/15  | 1 to 13  | 1.6          | <20.0        | NA |
| SC-2 | 3/6/15  | 1 to 13  | 6.8          | 25.8         | NA |
| SC-3 | 3/6/15  | 1 to 13  | 7.4          | 27.1         | NA |
| SC-4 | 3/6/15  | 1 to 11  | 4.3          | 77.1         | NA |
| SC-5 | 3/6/15  | 11 to 13 | <b>1,423</b> | 830          | NA |

NA – not analyzed

NE – not established

\*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) and *NMAC 19.15.17.13E*.

Laboratory analysis of sample BGT SC-1 was used to confirm the BGT closure field sampling results. Benzene concentrations were reported at 2.3 mg/kg, total BTEX concentrations were measured at 78.2 mg/kg, and total TPH concentrations were reported at 7,630 mg/kg. Laboratory analytical results reported the chloride concentration as less than 30 mg/kg.

Laboratory analyses for SC-1 through SC-5 were used to confirm field sampling results from the final excavation extents. Benzene and total BTEX concentrations were reported below laboratory detection limits in all samples except SC-5 (0.093 mg/kg and 3.52 mg/kg, respectively). Total TPH concentrations ranged from below laboratory detection limits in SC-1 through SC-3 up to 610 mg/kg in SC-5. Results are summarized in Table 2 and included on Figures 2 through 4. The laboratory analytical reports are attached.



Table 2. Soil Laboratory Analytical Results – Benzene, Total BTEX, TPH, and Chlorides  
State Com AI #33 BGT Closure, Release Assessment, and Final Excavation  
February and March 2015

| <b>Sample ID</b>           | <b>Date Sampled</b> | <b>Sample Depth (ft bgs)</b> | <b>Benzene (mg/kg)</b> | <b>Total BTEX (mg/kg)</b> | <b>TPH (mg/kg)</b> | <b>Chlorides (mg/kg)</b> |
|----------------------------|---------------------|------------------------------|------------------------|---------------------------|--------------------|--------------------------|
| <b>NMOCD Action Level*</b> |                     |                              | <b>0.2/10</b>          | <b>50</b>                 | <b>100/1,000</b>   | <b>250/NE</b>            |
| BGT SC-1                   | 2/20/15             | 0.5                          | 2.3                    | 78.2                      | 7,630              | <30                      |
| SC-1                       | 3/6/15              | 1 to 13                      | <0.048                 | <0.241                    | <63.6              | NA                       |
| SC-2                       | 3/6/15              | 1 to 13                      | <0.046                 | <0.229                    | <64.6              | NA                       |
| SC-3                       | 3/6/15              | 1 to 13                      | <0.047                 | <0.235                    | <63.4              | NA                       |
| SC-4                       | 3/6/15              | 1 to 11                      | <0.047                 | <0.236                    | 15                 | NA                       |
| SC-5                       | 3/6/15              | 13                           | 0.093                  | 3.52                      | 610                | NA                       |

NA – not analyzed

NE – not established

\*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) and *NMAC 19.15.17.13E*.

### 3.0 Conclusions and Recommendations

On February 20, 2015, AES conducted a BGT closure and assessment of petroleum contaminated soils associated with a historic release at the State Com AI #33. NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 10.

Field BGT closure sampling TPH results in February 2015 were above the NMOCD action level of 100 mg/kg, with BGT SC-1 reporting a concentration at 7,630 mg/kg. Laboratory results for chloride concentrations in BGT SC-1 were reported below the NMOCD action level of 250 mg/kg. Based on field concentrations, a release was confirmed.

The same day, release assessment field sampling results above the NMOCD action level of 100 ppm VOCs and 1,000 mg/kg TPH were reported in TH-1 and TH-5. The highest VOC and TPH concentrations were reported in TH-1 with 3,964 ppm and greater than 2,500 mg/kg, respectively. Excavation of the release area was recommended.

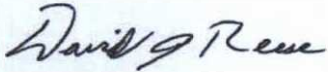


On March 6, 2015, final excavation of the impacted area was completed. Field sampling results of the excavation extents showed that VOC concentrations were below applicable NMOCD action levels for the final walls of the excavation, but above NMOCD action levels for the base. However, laboratory analytical results reported benzene and total BTEX concentrations in SC-1 through SC-5 below NMOCD action levels. Field TPH concentrations were below the applicable NMOCD action level of 1,000 mg/kg for the final walls and base of the excavation, and laboratory analytical results for TPH as GRO/DRO/MRO were also reported below the applicable NMOCD action level in all samples.

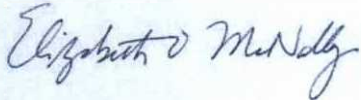
Based on the final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the State Com AI #33, benzene, total BTEX, and TPH concentrations were below the applicable NMOCD action levels for the final sidewalls and base of the excavation. No further work is recommended.

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

Sincerely,



David J. Reese  
Staff Environmental Scientist



Elizabeth McNally, PE

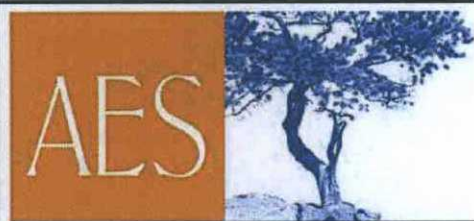
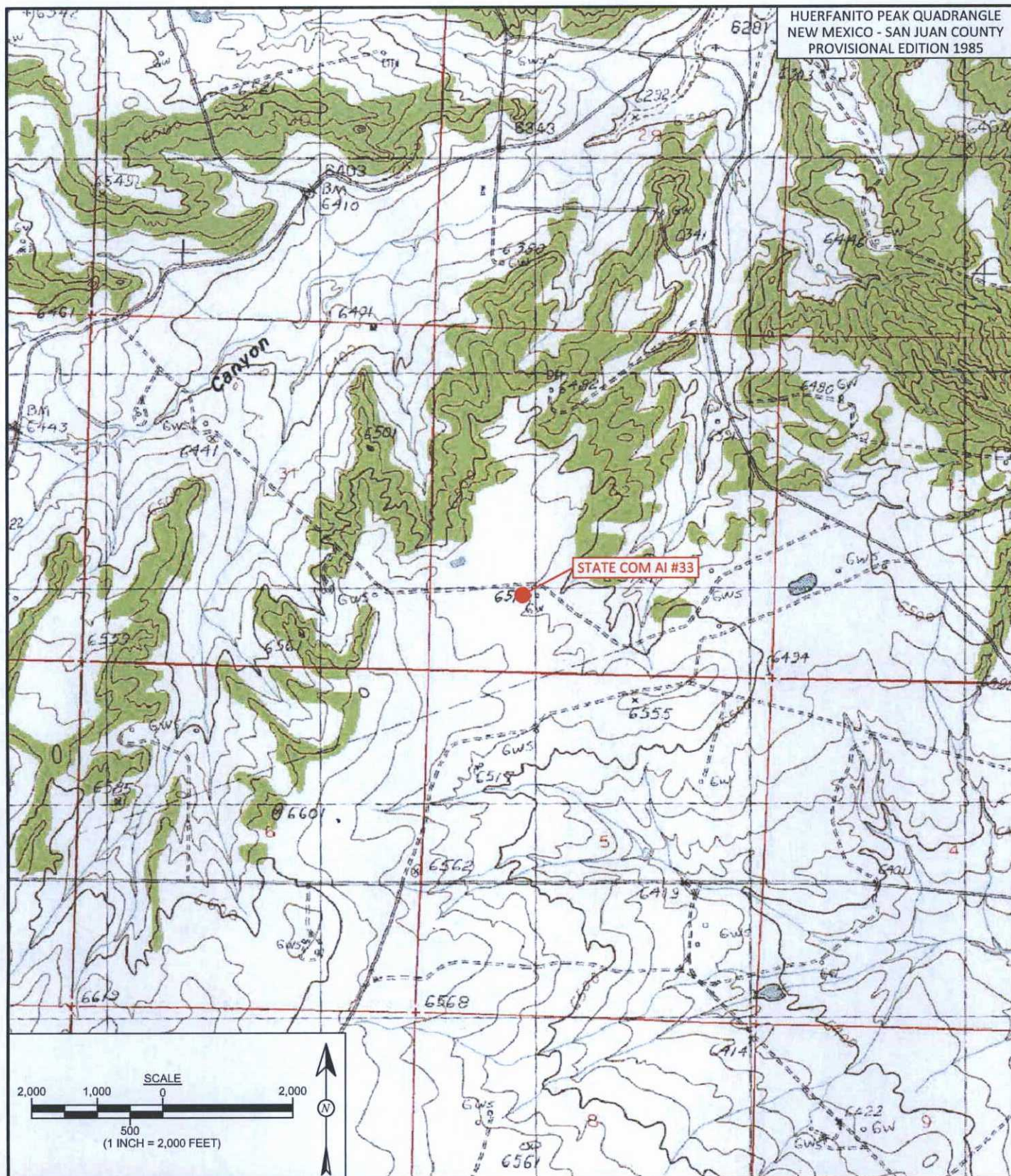
Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, Below Grade Tank Closure, February 2015
- Figure 3. Release Assessment Sample Locations and Results, February 2015
- Figure 4. Final Excavation Sample Locations and Results, March 2015
- AES BGT Closure Field Sampling Report 022015
- AES Release Assessment Field Sampling Report 022015
- AES Field Sampling Report 030615
- Hall Laboratory Analytical Report 1502908
- Hall Laboratory Analytical Report 1503289
- Hall Laboratory Analytical Report 1503301



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#33\State Com AI #33 BGT Closure Assessment and Excavation Report 082715.docx





Animas Environmental Services, LLC

DRAWN BY:

S. Glasses

DATE DRAWN:

March 2, 2015

REVISIONS BY:

C. Lameman

DATE REVISED:

March 2, 2015

CHECKED BY:

E. Skyles

DATE CHECKED:

March 2, 2015

APPROVED BY:

E. McNally

DATE APPROVED:

March 2, 2015

## FIGURE 1

### TOPOGRAPHIC SITE LOCATION MAP

ConocoPhillips  
STATE COM AI #33  
SE $\frac{1}{4}$  SW $\frac{1}{4}$ , SECTION 32, T27N, R9W  
SAN JUAN COUNTY, NEW MEXICO  
N36.52776, W107.81497



LEGEND

● SAMPLE LOCATIONS

Field Sampling Results

| Sample ID          | Date    | OVM-PID (ppm) | TPH (mg/kg) | Chlorides (mg/kg) |
|--------------------|---------|---------------|-------------|-------------------|
| NMOCD ACTION LEVEL |         | --            | 100         | 250               |
| S-1                | 2/20/15 | 4,212         | >2,500      | NA                |
| S-2                | 2/20/15 | 3,521         | >2,500      | NA                |
| S-3                | 2/20/15 | 3,820         | >2,500      | NA                |
| S-4                | 2/20/15 | 3,746         | >2,500      | NA                |
| S-5                | 2/20/15 | 3,416         | >2,500      | NA                |
| BGT SC-1           | 2/20/15 | 4,258         | NA          | 140               |

BGT SC-1 IS A 5-POINT COMPOSITE SAMPLE OF S-1 THROUGH S-5. NA - NOT ANALYZED

Laboratory Analytical Results

| Sample ID          | Date    | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH - GRO (mg/kg) | TPH - DRO (mg/kg) | TPH - MRO (mg/kg) | Chlorides (mg/kg) |
|--------------------|---------|-----------------|--------------------|-------------------|-------------------|-------------------|-------------------|
| NMOCD ACTION LEVEL |         | 0.2             | 50                 | 100               |                   |                   | 250               |
| BGT SC-1           | 2/20/15 | 2.3             | 78.2               | 730               | 4,700             | 2,200             | <30               |

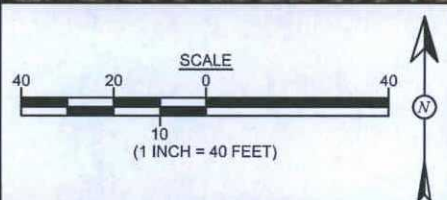
SAMPLE WAS ANALYZED PER USEPA METHOD 8021B, 8015D AND 300.0.

STATE COM AI #33 WELL MONUMENT

PRODUCTION TANK

FORMER SEPARATOR

BGT - N36.52753  
W107.81503



AERIAL SOURCE: © 2014 GOOGLE EARTH PRO, AERIAL DATE: NOVEMBER 17, 2013

FIGURE 2

AERIAL SITE MAP  
BELOW GRADE TANK CLOSURE  
FEBRUARY 2015  
ConocoPhillips  
STATE COM AI #33  
SE¼ SW¼, SECTION 32, T27N, R9W  
SAN JUAN COUNTY, NEW MEXICO  
N36.52776, W107.81497

DRAWN BY:

S. Glasses

DATE DRAWN:

March 2, 2015

REVISIONS BY:

D. Dougi

DATE REVISED:

August 28, 2015

CHECKED BY:

E. Skyles

DATE CHECKED:

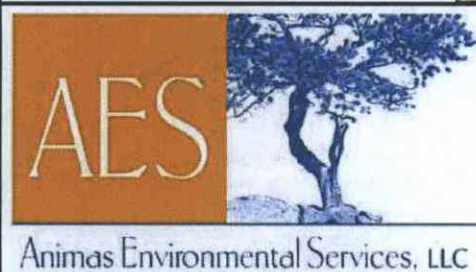
August 28, 2015

APPROVED BY:

E. McNally

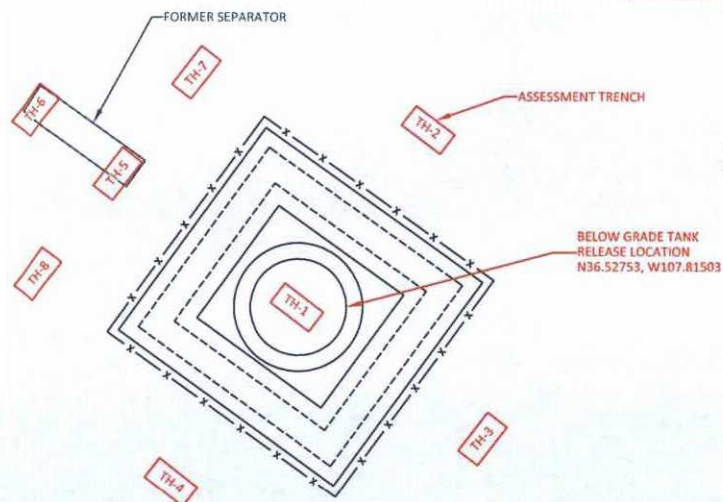
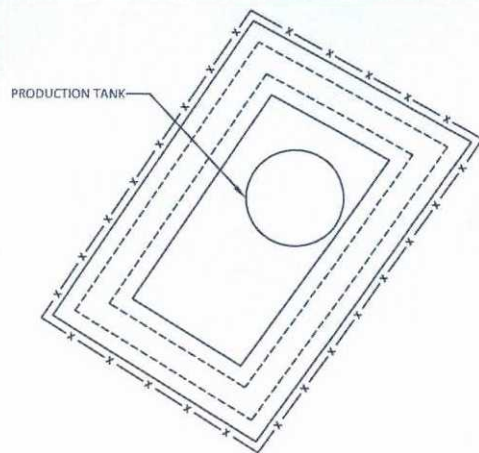
DATE APPROVED:

August 28, 2015





STATE COM AI #33 WELL MONUMENT



| Field Sampling Results |         |            |               |             |
|------------------------|---------|------------|---------------|-------------|
| Sample ID              | Date    | Depth (ft) | OVM-PID (ppm) | TPH (mg/kg) |
| NMOCD ACTION LEVEL     |         |            | 100           | 1,000       |
| TH-1                   | 2/20/15 | 8          | 3,964         | >2,500      |
| TH-2                   | 2/20/15 | 4          | 3.8           | NA          |
|                        |         | 8          | 0.8           | <20.0       |
|                        |         | 11         | NA            | <20.0       |
| TH-3                   | 2/20/15 | 4          | 0.0           | NA          |
|                        |         | 8          | 2.2           | NA          |
|                        |         | 11         | NA            | <20.0       |
| TH-4                   | 2/20/15 | 8          | 0.6           | NA          |
|                        |         | 10         | 1.2           | <20.0       |
|                        |         | 6          | 1,331         | NA          |
| TH-5                   | 2/20/15 | 8          | 14.5          | NA          |
|                        |         | 10         | NA            | 1,037       |
|                        |         | 4          | 2.3           | NA          |
| TH-6                   | 2/20/15 | 8          | NA            | <20.0       |
|                        |         | 11         | 0.7           | <20.0       |
|                        |         | 4          | 0.4           | 29.7        |
| TH-7                   | 2/20/15 | 8          | NA            | 32.2        |
|                        |         | 11         | 0.0           | 32.2        |
|                        |         | 4          | NA            | 37.0        |
| TH-8                   | 2/20/15 | 8          | NA            | 33.4        |
|                        |         | 11         | 0.6           | 43.0        |
| NA - NOT ANALYZED      |         |            |               |             |

FIGURE 3

RELEASE ASSESSMENT  
SAMPLE LOCATIONS AND RESULTS  
FEBRUARY 2015  
ConocoPhillips  
STATE COM AI #33  
SE¼ SW¼, SECTION 32, T27N, R9W  
SAN JUAN COUNTY, NEW MEXICO  
N36.52776, W107.81497



Animas Environmental Services, LLC

DRAWN BY:  
S. Glasses

DATE DRAWN:  
March 2, 2015

REVISIONS BY:  
C. Lameman

DATE REVISED:  
June 25, 2015

CHECKED BY:  
E. Skyles

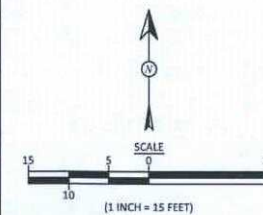
DATE CHECKED:  
June 25, 2015

APPROVED BY:  
E. McNally

DATE APPROVED:  
June 25, 2015

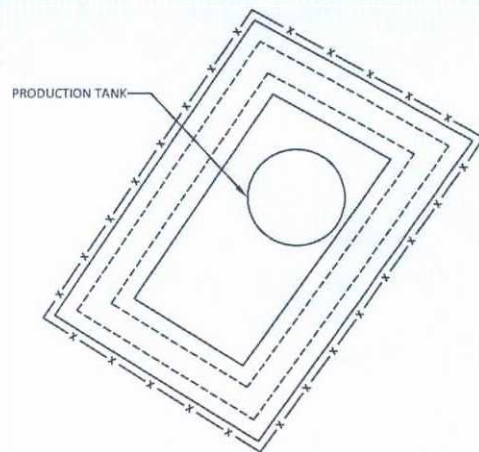
LEGEND

===== SECONDARY CONTAINMENT BERM  
- x - FENCE





STATE COM AI #33 WELL MONUMENT



| Field Sampling Results              |        |            |               |             |
|-------------------------------------|--------|------------|---------------|-------------|
| Sample ID                           | Date   | Depth (ft) | OVM-PID (ppm) | TPH (mg/kg) |
| NMOCD ACTION LEVEL                  |        |            | 100           | 1,000       |
| SC-1                                | 3/6/15 | 1 to 13    | 1.6           | <20.0       |
| SC-2                                | 3/6/15 | 1 to 13    | 6.8           | 25.8        |
| SC-3                                | 3/6/15 | 1 to 13    | 7.4           | 27.1        |
| SC-4                                | 3/6/15 | 1 to 11    | 4.3           | 77.1        |
| SC-5                                | 3/6/15 | 11 to 13   | 1,423         | 830         |
| ALL SAMPLES WERE COMPOSITE SAMPLES. |        |            |               |             |

| Laboratory Analytical Results                               |        |            |                 |                    |                   |                   |                   |
|-------------------------------------------------------------|--------|------------|-----------------|--------------------|-------------------|-------------------|-------------------|
| Sample ID                                                   | Date   | Depth (ft) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH - GRO (mg/kg) | TPH - DRO (mg/kg) | TPH - MRO (mg/kg) |
| NMOCD ACTION LEVEL                                          |        |            | 10              | 50                 | 1,000             |                   |                   |
| SC-1                                                        | 3/6/15 | 1 to 13    | <0.048          | <0.241             | <4.8              | <9.8              | <49               |
| SC-2                                                        | 3/6/15 | 1 to 13    | <0.046          | <0.229             | <4.6              | <10               | <50               |
| SC-3                                                        | 3/6/15 | 1 to 13    | <0.047          | <0.235             | <4.7              | <9.7              | <49               |
| SC-4                                                        | 3/6/15 | 1 to 11    | <0.047          | <0.236             | <4.7              | 15                | <50               |
| SC-5                                                        | 3/6/15 | 11 to 13   | 0.093           | 3.52               | 100               | 340               | 170               |
| ALL SAMPLES WERE ANALYZED PER USEPA METHOD 8021B AND 8015D. |        |            |                 |                    |                   |                   |                   |

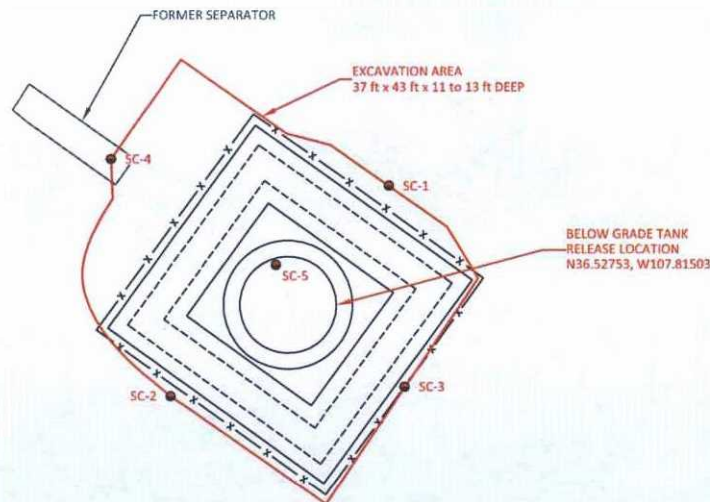


FIGURE 4

FINAL EXCAVATION  
SAMPLE LOCATIONS AND RESULTS  
MARCH 2015  
ConocoPhillips  
STATE COM AI #33  
SE 1/4 SW 1/4, SECTION 32, T27N, R9W  
SAN JUAN COUNTY, NEW MEXICO  
N36.52776, W107.81497

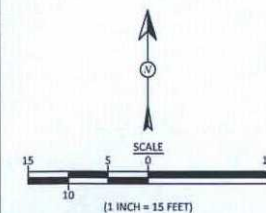


Animas Environmental Services, LLC

|                             |                                |
|-----------------------------|--------------------------------|
| DRAWN BY:<br>C. Lameman     | DATE DRAWN:<br>March 9, 2015   |
| REVISIONS BY:<br>C. Lameman | DATE REVISED:<br>July 2, 2015  |
| CHECKED BY:<br>E. Skyles    | DATE CHECKED:<br>July 2, 2015  |
| APPROVED BY:<br>E. McNally  | DATE APPROVED:<br>July 2, 2015 |

LEGEND

- SAMPLE LOCATION
- SECONDARY CONTAINMENT BERM
- x — FENCE





# AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: State Com AI #33

Date: 2/20/2015

Matrix: Soil

| Sample ID | Collection Date | Collection Time | Sample Location | OVM (ppm) | Field Chloride (mg/kg) | Field TPH* (mg/kg)   | Field TPH Analysis Time | TPH PQL (mg/kg) | DF | TPH Analysts Initials |
|-----------|-----------------|-----------------|-----------------|-----------|------------------------|----------------------|-------------------------|-----------------|----|-----------------------|
| S-1       | 2/20/2015       | 9:50            | North           | 4,212     | NA                     | >2,500               | 10:48                   | 20.0            | 1  | DD                    |
| S-2       | 2/20/2015       | 9:53            | South           | 3,521     | NA                     | >2,500               | 10:52                   | 20.0            | 1  | DD                    |
| S-3       | 2/20/2015       | 10:00           | East            | 3,820     | NA                     | >2,500               | 10:56                   | 20.0            | 1  | DD                    |
| S-4       | 2/20/2015       | 9:56            | West            | 3,746     | NA                     | >2,500               | 11:00                   | 20.0            | 1  | DD                    |
| S-5       | 2/20/2015       | 10:05           | Center          | 3,416     | NA                     | >2,500               | 11:05                   | 20.0            | 1  | DD                    |
| SC-1      | 2/20/2015       | 10:15           | Composite       | 4,258     | 140                    | Not Analyzed for TPH |                         |                 |    |                       |

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

\*Field TPH concentrations recorded may be below PQL.

Field Chloride - Quantab Chloride Titrators or Drop Count

Titration with Silver Nitrate

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: *Dylan Daw*



# AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: State Com AI #33

Date: 2/20/2015

Matrix: Soil

| 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 @ 8'  | 2/20/2015       | 11:30           | 3,964     | >2,500               | 12:20                   | 20.0            | 1  | DD                    |
| TH-2 @ 4'  | 2/20/2015       | 11:59           | 3.8       | Not Analyzed for TPH |                         |                 |    |                       |
| TH-2 @ 8'  | 2/20/2015       | 12:02           | 0.8       | 18.9                 | 13:15                   | 20.0            | 1  | DD                    |
| TH-2 @ 11' | 2/20/2015       | 12:04           | NA        | 14.0                 | 13:37                   | 20.0            | 1  | DD                    |
| TH-3 @ 4'  | 2/20/2015       | 12:14           | 0.0       | Not Analyzed for TPH |                         |                 |    |                       |
| TH-3 @ 8'  | 2/20/2015       | 12:16           | 2.2       | Not Analyzed for TPH |                         |                 |    |                       |
| TH-3 @ 11' | 2/20/2015       | 12:18           | NA        | 9.16                 | 13:44                   | 20.0            | 1  | DD                    |
| TH-4 @ 8'  | 2/20/2015       | 12:23           | 0.6       | Not Analyzed for TPH |                         |                 |    |                       |
| TH-4 @ 10' | 2/20/2015       | 12:25           | 1.2       | 3.12                 | 13:50                   | 20.0            | 1  | DD                    |
| TH-5 @ 6'  | 2/20/2015       | 12:31           | 1,331     | Not Analyzed for TPH |                         |                 |    |                       |
| TH-5 @ 8'  | 2/20/2015       | 12:33           | 14.5      | Not Analyzed for TPH |                         |                 |    |                       |
| TH-5 @ 10' | 2/20/2015       | 12:35           | NA        | 1,037                | 13:56                   | 20.0            | 1  | DD                    |
| TH-6 @ 4'  | 2/20/2015       | 12:40           | 2.3       | Not Analyzed for TPH |                         |                 |    |                       |
| TH-6 @ 8'  | 2/20/2015       | 12:42           | NA        | 3.12                 | 14:02                   | 20.0            | 1  | DD                    |



| 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 @ 11' | 2/20/2015       | 12:44           | 0.7       | 3.12               | 14:07                   | 20.0            | 1  | DD                    |
| TH-7 @ 4'  | 2/20/2015       | 12:49           | 0.4       | 29.7               | 14:13                   | 20.0            | 1  | DD                    |
| TH-7 @ 8'  | 2/20/2015       | 12:51           | NA        | 32.2               | 14:19                   | 20.0            | 1  | DD                    |
| TH-7 @ 11' | 2/20/2015       | 12:53           | 0.0       | 32.2               | 14:25                   | 20.0            | 1  | DD                    |
| TH-8 @ 4'  | 2/20/2015       | 12:58           | NA        | 37.0               | 14:30                   | 20.0            | 1  | DD                    |
| TH-8 @ 8'  | 2/20/2015       | 13:00           | NA        | 33.4               | 14:36                   | 20.0            | 1  | DD                    |
| TH-8 @ 11' | 2/20/2015       | 13:02           | 0.6       | 43.0               | 14:42                   | 20.0            | 1  | DD                    |

DF Dilution Factor  
NA Not Analyzed  
PQL Practical Quantitation Limit

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

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: *Dylan Dawe*



# AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: State Com AI #33

Date: 3/6/2015

Matrix: Soil

| Sample ID | Collection Date | Collection Time | Sample Location | OVM (ppm) | Field TPH* (mg/kg) | Field TPH Analysis Time | TPH PQL (mg/kg) | DF | TPH Analysts Initials |
|-----------|-----------------|-----------------|-----------------|-----------|--------------------|-------------------------|-----------------|----|-----------------------|
| SC-1      | 3/6/2015        | 12:20           | North           | 1.6       | 19.0               | 13:27                   | 20.0            | 1  | CL                    |
| SC-2      | 3/6/2015        | 9:25            | South           | 6.8       | 25.8               | 10:33                   | 20.0            | 1  | CL                    |
| SC-3      | 3/6/2015        | 12:25           | East            | 7.4       | 27.1               | 13:30                   | 20.0            | 1  | CL                    |
| SC-4      | 3/6/2015        | 9:35            | West            | 4.3       | 77.1               | 10:38                   | 20.0            | 1  | CL                    |
| SC-5      | 3/6/2015        | 9:40            | Center          | 1,423     | 830                | 10:40                   | 20.0            | 1  | CL                    |

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

\*Field TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:



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 <b>Lindsay Dumas</b> |                      |
| Address 3401 East 30 <sup>th</sup> St, Farmington, NM | Telephone No. (505) 258-1643 |                      |
| Facility Name: State Com AI 33                        | Facility Type: Gas           |                      |
| Surface Owner: State                                  | Mineral Owner: E-1010-1      | API No. 30-045-06118 |

#### LOCATION OF RELEASE

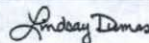
| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County   |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|----------|
| N           | 32      | 27N      | 09W   | 1190'         | FSL              | 1650'         | FWL            | San Juan |

Latitude 36.527538 Longitude -107.81427

#### NATURE OF RELEASE

|                                                                                                                                                        |                                               |                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------|
| Type of Release: Hydrocarbons                                                                                                                          | Volume of Release: Unknown                    | Volume Recovered: 0                                |
| Source of Release historic release found during BGT closure activities                                                                                 | Date and Hour of Occurrence<br><b>unknown</b> | Date and Hour of Discovery<br><b>February 2015</b> |
| Was Immediate Notice Given?<br><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?<br><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.*<br>An historic release was found during BGT closure activities.                                  |                                               |                                                    |
| Describe Area Affected and Cleanup Action Taken.*<br><b>ConocoPhillips will assess the soil to determine a path forward for clean-up if necessary.</b> |                                               |                                                    |

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>Lindsay Dumas</b>                                                             | Approved by Environmental Specialist:                                                                         |                                   |
| Title: <b>Field Environmental Specialist</b>                                                   | Approval Date:                                                                                                | Expiration Date:                  |
| E-mail Address: <b>Lindsay.Dumas@conocophillips.com</b>                                        | Conditions of Approval:  | Attached <input type="checkbox"/> |
| Date: 10/8/2015                                                                                | Phone: (505) 258-1643                                                                                         |                                   |

\* Attach Additional Sheets If Necessary





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)

March 10, 2015

Emilee Skyles  
Animas Environmental  
604 Pinon Street  
Farmington, NM 87401  
TEL: (505) 564-2281  
FAX

RE: CoP State Com AI #33

OrderNo.: 1503289

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/7/2015 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. In order to properly interpret your results it is imperative that you review this report in its entirety. 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. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. 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.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order 1503289

Date Reported: 3/10/2015

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-5

Project: CoP State Com AI #33

Collection Date: 3/6/2015 9:40:00 AM

Lab ID: 1503289-001

Matrix: SOIL

Received Date: 3/7/2015 11:45:00 AM

| Analyses                                       | Result | RL       | Qual | Units | DF | Date Analyzed       | Batch        |
|------------------------------------------------|--------|----------|------|-------|----|---------------------|--------------|
| <b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                     | Analyst: JME |
| Diesel Range Organics (DRO)                    | 340    | 9.8      |      | mg/Kg | 1  | 3/9/2015 3:47:41 PM | 18035        |
| Motor Oil Range Organics (MRO)                 | 170    | 49       |      | mg/Kg | 1  | 3/9/2015 3:47:41 PM | 18035        |
| Surr: DNOP                                     | 94.8   | 63.5-128 |      | %REC  | 1  | 3/9/2015 3:47:41 PM | 18035        |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>        |        |          |      |       |    |                     | Analyst: NSB |
| Gasoline Range Organics (GRO)                  | 100    | 2.7      |      | mg/Kg | 1  | 3/9/2015 9:11:47 AM | 18026        |
| Surr: BFB                                      | 994    | 80-120   | S    | %REC  | 1  | 3/9/2015 9:11:47 AM | 18026        |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    |                     | Analyst: NSB |
| Benzene                                        | 0.093  | 0.027    |      | mg/Kg | 1  | 3/9/2015 9:11:47 AM | 18026        |
| Toluene                                        | 0.071  | 0.027    |      | mg/Kg | 1  | 3/9/2015 9:11:47 AM | 18026        |
| Ethylbenzene                                   | 0.53   | 0.027    |      | mg/Kg | 1  | 3/9/2015 9:11:47 AM | 18026        |
| Xylenes, Total                                 | 2.8    | 0.054    |      | mg/Kg | 1  | 3/9/2015 9:11:47 AM | 18026        |
| Surr: 4-Bromofluorobenzene                     | 174    | 80-120   | S    | %REC  | 1  | 3/9/2015 9:11:47 AM | 18026        |

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    | Page 1 of 4 |
|             | 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 Not In Range                             |             |
|             | 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#: 1503289

10-Mar-15

Client: Animas Environmental

Project: CoP State Com AI #33

|                                |          |                |           |             |                                         |          |           |      |          |      |
|--------------------------------|----------|----------------|-----------|-------------|-----------------------------------------|----------|-----------|------|----------|------|
| Sample ID                      | MB-18035 | SampType:      | MBLK      | TestCode:   | EPA Method 8015D: Diesel Range Organics |          |           |      |          |      |
| Client ID:                     | PBS      | Batch ID:      | 18035     | RunNo:      | 24705                                   |          |           |      |          |      |
| Prep Date:                     | 3/9/2015 | Analysis Date: | 3/9/2015  | SeqNo:      | 727849                                  | 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                     | 8.4      |                | 10.00     |             | 84.0                                    | 63.5     | 128       |      |          |      |

|                             |           |                |           |             |                                         |          |           |      |          |      |
|-----------------------------|-----------|----------------|-----------|-------------|-----------------------------------------|----------|-----------|------|----------|------|
| Sample ID                   | LCS-18035 | SampType:      | LCS       | TestCode:   | EPA Method 8015D: Diesel Range Organics |          |           |      |          |      |
| Client ID:                  | LCSS      | Batch ID:      | 18035     | RunNo:      | 24705                                   |          |           |      |          |      |
| Prep Date:                  | 3/9/2015  | Analysis Date: | 3/9/2015  | SeqNo:      | 727929                                  | Units:   | mg/Kg     |      |          |      |
| Analyte                     | Result    | PQL            | SPK value | SPK Ref Val | %REC                                    | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 45        | 10             | 50.00     | 0           | 90.2                                    | 67.8     | 130       |      |          |      |
| Surr: DNOP                  | 4.3       |                | 5.000     |             | 85.5                                    | 63.5     | 128       |      |          |      |

|                             |                |                |           |             |                                         |          |           |      |          |      |
|-----------------------------|----------------|----------------|-----------|-------------|-----------------------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 1503289-001AMS | SampType:      | MS        | TestCode:   | EPA Method 8015D: Diesel Range Organics |          |           |      |          |      |
| Client ID:                  | SC-5           | Batch ID:      | 18035     | RunNo:      | 24705                                   |          |           |      |          |      |
| Prep Date:                  | 3/9/2015       | Analysis Date: | 3/9/2015  | SeqNo:      | 727974                                  | Units:   | mg/Kg     |      |          |      |
| Analyte                     | Result         | PQL            | SPK value | SPK Ref Val | %REC                                    | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 300            | 9.9            | 49.60     | 335.4       | -67.9                                   | 29.2     | 176       |      |          | S    |
| Surr: DNOP                  | 4.9            |                | 4.960     |             | 98.4                                    | 63.5     | 128       |      |          |      |

|                             |                 |                |           |             |                                         |          |           |      |          |      |
|-----------------------------|-----------------|----------------|-----------|-------------|-----------------------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 1503289-001AMSD | SampType:      | MSD       | TestCode:   | EPA Method 8015D: Diesel Range Organics |          |           |      |          |      |
| Client ID:                  | SC-5            | Batch ID:      | 18035     | RunNo:      | 24705                                   |          |           |      |          |      |
| Prep Date:                  | 3/9/2015        | Analysis Date: | 3/9/2015  | SeqNo:      | 727976                                  | Units:   | mg/Kg     |      |          |      |
| Analyte                     | Result          | PQL            | SPK value | SPK Ref Val | %REC                                    | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 470             | 9.9            | 49.60     | 335.4       | 264                                     | 29.2     | 176       | 42.9 | 23       | RS   |
| Surr: DNOP                  | 5.1             |                | 4.960     |             | 103                                     | 63.5     | 128       | 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 Not In Range
- RL Reporting Detection Limit



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1503289

10-Mar-15

Client: Animas Environmental

Project: CoP State Com AI #33

|                               |          |                |           |             |                                  |          |           |      |          |      |
|-------------------------------|----------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID                     | MB-18026 | SampType:      | MBLK      | TestCode:   | EPA Method 8015D: Gasoline Range |          |           |      |          |      |
| Client ID:                    | PBS      | Batch ID:      | 18026     | RunNo:      | 24701                            |          |           |      |          |      |
| Prep Date:                    | 3/6/2015 | Analysis Date: | 3/9/2015  | SeqNo:      | 727984                           | 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                     | 930      |                | 1000      |             | 92.7                             | 80       | 120       |      |          |      |

|                               |           |                |           |             |                                  |          |           |      |          |      |
|-------------------------------|-----------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID                     | LCS-18026 | SampType:      | LCS       | TestCode:   | EPA Method 8015D: Gasoline Range |          |           |      |          |      |
| Client ID:                    | LCSS      | Batch ID:      | 18026     | RunNo:      | 24701                            |          |           |      |          |      |
| Prep Date:                    | 3/6/2015  | Analysis Date: | 3/9/2015  | SeqNo:      | 727985                           | Units:   | mg/Kg     |      |          |      |
| Analyte                       | Result    | PQL            | SPK value | SPK Ref Val | %REC                             | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 27        | 5.0            | 25.00     | 0           | 107                              | 64       | 130       |      |          |      |
| Surr: BFB                     | 1000      |                | 1000      |             | 101                              | 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 Not In Range
- RL Reporting Detection Limit



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1503289

10-Mar-15

Client: Animas Environmental

Project: CoP State Com AI #33

|                            |          |       |                |             |      |           |                             |      |              |      |
|----------------------------|----------|-------|----------------|-------------|------|-----------|-----------------------------|------|--------------|------|
| Sample ID                  | MB-18026 |       | SampType:      | MBLK        |      | TestCode: | EPA Method 8021B: Volatiles |      |              |      |
| Client ID:                 | PBS      |       | Batch ID:      | 18026       |      | RunNo:    | 24701                       |      |              |      |
| Prep Date:                 | 3/6/2015 |       | Analysis Date: | 3/9/2015    |      | SeqNo:    | 727995                      |      | 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          |             | 108  | 80        | 120                         |      |              |      |

|                            |           |       |                |             |      |           |                             |      |              |      |
|----------------------------|-----------|-------|----------------|-------------|------|-----------|-----------------------------|------|--------------|------|
| Sample ID                  | LCS-18026 |       | SampType:      | LCS         |      | TestCode: | EPA Method 8021B: Volatiles |      |              |      |
| Client ID:                 | LCSS      |       | Batch ID:      | 18026       |      | RunNo:    | 24701                       |      |              |      |
| Prep Date:                 | 3/6/2015  |       | Analysis Date: | 3/9/2015    |      | SeqNo:    | 727996                      |      | Units: mg/Kg |      |
| Analyte                    | Result    | PQL   | SPK value      | SPK Ref Val | %REC | LowLimit  | HighLimit                   | %RPD | RPDLimit     | Qual |
| Benzene                    | 1.1       | 0.050 | 1.000          | 0           | 113  | 76.6      | 128                         |      |              |      |
| Toluene                    | 1.1       | 0.050 | 1.000          | 0           | 107  | 75        | 124                         |      |              |      |
| Ethylbenzene               | 1.1       | 0.050 | 1.000          | 0           | 109  | 79.5      | 126                         |      |              |      |
| Xylenes, Total             | 3.3       | 0.10  | 3.000          | 0           | 110  | 78.8      | 124                         |      |              |      |
| Surr: 4-Bromofluorobenzene | 1.1       |       | 1.000          |             | 114  | 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 Not In Range
- RL Reporting Detection Limit





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

## Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1503289

RcptNo: 1

Received by/date: AF 03/07/15

Logged By: Anne Thorne 3/7/2015 11:45:00 AM

Completed By: Anne Thorne 3/9/2015

Reviewed By: [Signature]

### 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  $6.0^{\circ}\text{C}$ ? 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         | 5.1                     | Good      | Yes         |         |           |           |



| Chain-of-Custody Record                               |                                                                             | Turn-Around Time:                                        |
|-------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------|
| Client: <u>Animas Environmental Services</u>          | <input type="checkbox"/> Standard                                           | <input checked="" type="checkbox"/> Rush <u>Same Day</u> |
| Mailing Address: <u>604 W Pimon St.</u>               | Project Name: <u>CoP State Com AI #33</u>                                   |                                                          |
| <u>Farmington NM 87401</u>                            | Project #: _____                                                            |                                                          |
| Phone #: <u>505-564-2281</u>                          | Project Manager: <u>E. Skyles</u>                                           |                                                          |
| email or Fax#: <u>eskyles@animasenvironmental.com</u> | Sampler: <u>C. Lammeman</u>                                                 |                                                          |
| QA/QC Package:                                        | On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                                          |
| <input checked="" type="checkbox"/> Standard          | Sample Temperature: <u>5.1</u>                                              |                                                          |
| <input type="checkbox"/> Level 4 (Full Validation)    |                                                                             |                                                          |
| Accreditation                                         |                                                                             |                                                          |
| <input type="checkbox"/> NELAP                        |                                                                             |                                                          |
| <input type="checkbox"/> Other _____                  |                                                                             |                                                          |
| <input type="checkbox"/> EDD (Type) _____             |                                                                             |                                                          |

Sample Temperature: 51

[illegible]

|         |       |                    |
|---------|-------|--------------------|
| Date:   | Time: | Relinquished by:   |
| 5/6/15  | 17H   | <i>[Signature]</i> |
| Date:   | Time: | Relinquished by:   |
| 3/10/15 | 1758  | <i>[Signature]</i> |

|                 |        |       |
|-----------------|--------|-------|
| Received by:    | Date   | Time  |
| Christine White | 3/6/15 | 17:14 |
| Received by:    | Date   | Time  |
| [Signature]     | 3/7/15 | 11:   |

Remarks: Bill to ConocoPhillips  
WO#: 10374348  
USERID: KGARUA  
SUPERVISOR: FACHO TRUJILLO

ACT CODE: T110  
ordered by: Ralph Sloan  
Anno: 21 Run: 156





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 02, 2015

Emilee Skyles  
Animas Environmental Services  
604 Pinon Street  
Farmington, NM 87401  
TEL: (505) 564-2281  
FAX (505) 324-2022

RE: State Com AI #33

OrderNo.: 1502908

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/21/2015 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued February 24, 2015.

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 1502908

Date Reported: 7/2/2015

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: BGT SC-1

Project: State Com AI #33

Collection Date: 2/20/2015 10:15:00 AM

Lab ID: 1502908-001

Matrix: MEOH (SOIL)

Received Date: 2/21/2015 10:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        | Batch               |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    |                      | Analyst: <b>LGT</b> |
| Chloride                                         | ND     | 30       |      | mg/Kg | 20 | 3/9/2015 11:06:57 AM | 18045               |
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                      | Analyst: <b>BCN</b> |
| Diesel Range Organics (DRO)                      | 4700   | 100      |      | mg/Kg | 10 | 2/23/2015 2:24:09 PM | 17844               |
| Motor Oil Range Organics (MRO)                   | 2200   | 500      |      | mg/Kg | 10 | 2/23/2015 2:24:09 PM | 17844               |
| Surr: DNOP                                       | 0      | 63.5-128 | S    | %REC  | 10 | 2/23/2015 2:24:09 PM | 17844               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    |                      | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                    | 730    | 59       |      | mg/Kg | 20 | 2/23/2015 1:27:42 PM | 17830               |
| Surr: BFB                                        | 253    | 80-120   | S    | %REC  | 20 | 2/23/2015 1:27:42 PM | 17830               |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    |                      | Analyst: <b>NSB</b> |
| Benzene                                          | 2.3    | 0.59     |      | mg/Kg | 20 | 2/23/2015 1:27:42 PM | 17830               |
| Toluene                                          | 5.5    | 0.59     |      | mg/Kg | 20 | 2/23/2015 1:27:42 PM | 17830               |
| Ethylbenzene                                     | 7.4    | 0.59     |      | mg/Kg | 20 | 2/23/2015 1:27:42 PM | 17830               |
| Xylenes, Total                                   | 63     | 1.2      |      | mg/Kg | 20 | 2/23/2015 1:27:42 PM | 17830               |
| Surr: 4-Bromofluorobenzene                       | 132    | 80-120   | S    | %REC  | 20 | 2/23/2015 1:27:42 PM | 17830               |

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

|                    |   |                                                 |    |                                                    |
|--------------------|---|-------------------------------------------------|----|----------------------------------------------------|
| <b>Qualifiers:</b> | * | 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 Not In Range                             |
|                    | 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#: 1502908

02-Jul-15

Client: Animas Environmental Services

Project: State Com AI #33

|           |          |               |           |             |                          |          |           |      |          |      |
|-----------|----------|---------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID | MB-18045 | SampType      | MBLK      | TestCode    | EPA Method 300.0: Anions |          |           |      |          |      |
| Client ID | PBS      | Batch ID      | 18045     | RunNo       | 24729                    |          |           |      |          |      |
| Prep Date | 3/9/2015 | Analysis Date | 3/9/2015  | SeqNo       | 728382                   | Units    | mg/Kg     |      |          |      |
| Analyte   | Result   | PQL           | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride  | ND       | 1.5           |           |             |                          |          |           |      |          |      |

|           |           |               |           |             |                          |          |           |      |          |      |
|-----------|-----------|---------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID | LCS-18045 | SampType      | LCS       | TestCode    | EPA Method 300.0: Anions |          |           |      |          |      |
| Client ID | LCSS      | Batch ID      | 18045     | RunNo       | 24729                    |          |           |      |          |      |
| Prep Date | 3/9/2015  | Analysis Date | 3/9/2015  | SeqNo       | 728383                   | Units    | mg/Kg     |      |          |      |
| Analyte   | Result    | PQL           | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride  | 14        | 1.5           | 15.00     | 0           | 91.5                     | 90       | 110       |      |          |      |

## 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 Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1502908

02-Jul-15

Client: Animas Environmental Services

Project: State Com AI #33

|                                |           |                |           |             |                                           |          |           |      |          |      |
|--------------------------------|-----------|----------------|-----------|-------------|-------------------------------------------|----------|-----------|------|----------|------|
| Sample ID                      | MB-17844  | SampType:      | MBLK      | TestCode:   | EPA Method 8015M/D: Diesel Range Organics |          |           |      |          |      |
| Client ID:                     | PBS       | Batch ID:      | 17844     | RunNo:      | 24453                                     |          |           |      |          |      |
| Prep Date:                     | 2/23/2015 | Analysis Date: | 2/23/2015 | SeqNo:      | 720205                                    | 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                     | 9.2       |                | 10.00     |             | 91.6                                      | 63.5     | 128       |      |          |      |

|                             |           |                |           |             |                                           |          |           |      |          |      |
|-----------------------------|-----------|----------------|-----------|-------------|-------------------------------------------|----------|-----------|------|----------|------|
| Sample ID                   | LCS-17844 | SampType:      | LCS       | TestCode:   | EPA Method 8015M/D: Diesel Range Organics |          |           |      |          |      |
| Client ID:                  | LCSS      | Batch ID:      | 17844     | RunNo:      | 24453                                     |          |           |      |          |      |
| Prep Date:                  | 2/23/2015 | Analysis Date: | 2/23/2015 | SeqNo:      | 720206                                    | 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           | 94.0                                      | 67.8     | 130       |      |          |      |
| Surr: DNOP                  | 4.5       |                | 5.000     |             | 89.6                                      | 63.5     | 128       |      |          |      |

## 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 Not In Range
- RL Reporting Detection Limit



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1502908

02-Jul-15

Client: Animas Environmental Services

Project: State Com AI #33

|                               |           |                |           |             |                                  |          |           |      |          |      |
|-------------------------------|-----------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID                     | MB-17830  | SampType:      | MBLK      | TestCode:   | EPA Method 8015D: Gasoline Range |          |           |      |          |      |
| Client ID:                    | PBS       | Batch ID:      | 17830     | RunNo:      | 24467                            |          |           |      |          |      |
| Prep Date:                    | 2/20/2015 | Analysis Date: | 2/23/2015 | SeqNo:      | 720314                           | 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      |             | 91.6                             | 80       | 120       |      |          |      |

|                               |           |                |           |             |                                  |          |           |      |          |      |
|-------------------------------|-----------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID                     | LCS-17830 | SampType:      | LCS       | TestCode:   | EPA Method 8015D: Gasoline Range |          |           |      |          |      |
| Client ID:                    | LCSS      | Batch ID:      | 17830     | RunNo:      | 24467                            |          |           |      |          |      |
| Prep Date:                    | 2/20/2015 | Analysis Date: | 2/23/2015 | SeqNo:      | 720315                           | Units:   | mg/Kg     |      |          |      |
| Analyte                       | Result    | PQL            | SPK value | SPK Ref Val | %REC                             | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 26        | 5.0            | 25.00     | 0           | 104                              | 64       | 130       |      |          |      |
| Surr: BFB                     | 990       |                | 1000      |             | 98.7                             | 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 Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1502908

02-Jul-15

Client: Animas Environmental Services

Project: State Com AI #33

|                            |                  |       |                |                  |      |           |                                    |      |                     |      |
|----------------------------|------------------|-------|----------------|------------------|------|-----------|------------------------------------|------|---------------------|------|
| Sample ID                  | <b>MB-17830</b>  |       | SampType:      | <b>MBLK</b>      |      | TestCode: | <b>EPA Method 8021B: Volatiles</b> |      |                     |      |
| Client ID:                 | <b>PBS</b>       |       | Batch ID:      | <b>17830</b>     |      | RunNo:    | <b>24467</b>                       |      |                     |      |
| Prep Date:                 | <b>2/20/2015</b> |       | Analysis Date: | <b>2/23/2015</b> |      | SeqNo:    | <b>720345</b>                      |      | Units: <b>mg/Kg</b> |      |
| 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          |                  | 104  | 80        | 120                                |      |                     |      |

|                            |                  |       |                |                  |      |           |                                    |      |                     |      |
|----------------------------|------------------|-------|----------------|------------------|------|-----------|------------------------------------|------|---------------------|------|
| Sample ID                  | <b>LCS-17830</b> |       | SampType:      | <b>LCS</b>       |      | TestCode: | <b>EPA Method 8021B: Volatiles</b> |      |                     |      |
| Client ID:                 | <b>LCSS</b>      |       | Batch ID:      | <b>17830</b>     |      | RunNo:    | <b>24467</b>                       |      |                     |      |
| Prep Date:                 | <b>2/20/2015</b> |       | Analysis Date: | <b>2/23/2015</b> |      | SeqNo:    | <b>720346</b>                      |      | Units: <b>mg/Kg</b> |      |
| Analyte                    | Result           | PQL   | SPK value      | SPK Ref Val      | %REC | LowLimit  | HighLimit                          | %RPD | RPDLimit            | Qual |
| Benzene                    | 1.2              | 0.050 | 1.000          | 0                | 118  | 80        | 120                                |      |                     |      |
| Toluene                    | 1.1              | 0.050 | 1.000          | 0                | 113  | 80        | 120                                |      |                     |      |
| Ethylbenzene               | 1.1              | 0.050 | 1.000          | 0                | 113  | 80        | 120                                |      |                     |      |
| Xylenes, Total             | 3.4              | 0.10  | 3.000          | 0                | 113  | 80        | 120                                |      |                     |      |
| Surr: 4-Bromofluorobenzene | 1.1              |       | 1.000          |                  | 113  | 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 Not In Range
- RL Reporting Detection Limit





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

## Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1502908

RcptNo: 1

Received by/date:

AE 02/21/15

Logged By: Ashley Gallegos

2/21/2015 10:20:00 AM

AG

Completed By: Ashley Gallegos

2/23/2015 8:29:32 AM

AG

Reviewed By:

JA

02/23/15

### 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  $6.0^{\circ}\text{C}$ ? 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         | 1.7                     | Good      | Yes         |         |           |           |



|                                              |                               |
|----------------------------------------------|-------------------------------|
| Turn-Around Time:                            |                               |
| <input checked="" type="checkbox"/> Standard | <input type="checkbox"/> Rush |
| Project Name:                                |                               |
| State Com AI #33                             |                               |
| Project #:                                   |                               |

☒ Standard      ☐ Rush

Project Name: State Com AI #33

Project #:

Project Manager:

☒ Standard ☐ Level 4 (Full Validation)☐ NELAP      ☐ Other☐ EDD (Type)

E. Skyles

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature:  $1.7^{\circ}\text{C}$

| Date | Time | Matrix | Sample Request ID |
|------|------|--------|-------------------|
|------|------|--------|-------------------|

| Container Type and # | Material | Quantity | Weight | Volume | Value | Notes |
|----------------------|----------|----------|--------|--------|-------|-------|
| 1                    | ...      | ...      | ...    | ...    | ...   | ...   |
| 2                    | ...      | ...      | ...    | ...    | ...   | ...   |
| 3                    | ...      | ...      | ...    | ...    | ...   | ...   |
| 4                    | ...      | ...      | ...    | ...    | ...   | ...   |
| 5                    | ...      | ...      | ...    | ...    | ...   | ...   |
| 6                    | ...      | ...      | ...    | ...    | ...   | ...   |
| 7                    | ...      | ...      | ...    | ...    | ...   | ...   |
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| 13                   | ...      | ...      | ...    | ...    | ...   | ...   |
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| 25                   | ...      | ...      | ...    | ...    | ...   | ...   |
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| 31                   | ...      | ...      | ...    | ...    | ...   | ...   |
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| 52                   | ...      | ...      | ...    | ...    | ...   | ...   |
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| 58                   | ...      | ...      | ...    | ...    | ...   | ...   |
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| 61                   | ...      | ...      | ...    | ...    | ...   | ...   |
| 62                   | ...      | ...      | ...    | ...    | ...   | ...   |
| 63                   | ...      | ...      | ...    | ...    | ...   | ...   |
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| 65                   | ...      | ...      | ...    | ...    | ...   | ...   |
| 66                   | ...      | ...      | ...    | ...    | ...   | ...   |
| 67                   | ...      | ...      | ...    | ...    | ...   | ...   |
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| 73                   | ...      | ...      | ...    | ...    | ...   | ...   |
| 74                   | ...      | ...      | ...    | ...    | ...   | ...   |
| 75                   | ...      | ...      | ...    | ...    | ...   | ...   |
| 76                   | ...      | ...      | ...    | ...    | ...   | ...   |
| 77                   | ...      | ...      | ...    | ...    | ...   | ...   |
| 78                   | ...      | ...      | ...    | ...    | ...   | ...   |
| 79                   | ...      | ...      | ...    | ...    | ...   | ...   |

[illegible]

HEAL No.

1502908

-001

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| 20/15 | 10/15 |
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Soil

SC-1

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|  |                 |                                                                                             |
|--|-----------------|---------------------------------------------------------------------------------------------|
|  | X               | BTEX + MTBE + TMBB (8021)                                                                   |
|  |                 | BTEX + MTBE + TPH (Gas only)                                                                |
|  | X               | TPH 8015B (GRO / DRO / MRO)                                                                 |
|  |                 | TPH (Method 418.1)                                                                          |
|  |                 | EDB (Method 504.1)                                                                          |
|  |                 | PAH's (8310 or 8270 SIMS)                                                                   |
|  |                 | RCRA 8 Metals                                                                               |
|  | X               | Anions ( <u>F</u> , NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> ) |
|  | 36<br>92<br>104 | 8081 Pesticides / 8082 PCB's                                                                |
|  |                 | 8260B (VOA)                                                                                 |
|  |                 | 8270 (Semi-VOA)                                                                             |
|  |                 |                                                                                             |
|  |                 |                                                                                             |
|  |                 |                                                                                             |
|  |                 | Air Rubbles (Y or N)                                                                        |

|         |       |                  |
|---------|-------|------------------|
| Date:   | Time: | Relinquished by: |
| 1/20/15 | 1648  | D. A. D.         |

|         |       |                    |
|---------|-------|--------------------|
| Date:   | Time: | Relinquished by:   |
| 7/20/15 | 1707  | Christopher Waelle |

Received by: Christa Webb Date 2/20/15 Time 1648

Received by: Order Date/Time 3/21/15 10:10

|                     |                            |
|---------------------|----------------------------|
| Remarks:            | Lead: Danny Rudder         |
| WO# 10374348        | Supervisor: Facio Trujillo |
| Activity Code: T110 | Area: 21                   |
| USER ID: KGARCIA    | Run: 156                   |





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)

March 11, 2015

Emilee Skyles  
Animas Environmental  
604 Pinon Street  
Farmington, NM 87401  
TEL: (505) 564-2281  
FAX

RE: CoP State Com AI #33

OrderNo.: 1503301

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/7/2015 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. In order to properly interpret your results it is imperative that you review this report in its entirety. 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. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. 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.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

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 1503301

Date Reported: 3/11/2015

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-1

Project: CoP State Com AI #33

Collection Date: 3/6/2015 9:20:00 AM

Lab ID: 1503301-001

Matrix: SOIL

Received Date: 3/7/2015 11:45:00 AM

| Analyses                                       | Result | RL       | Qual | Units | DF | Date Analyzed         | Batch        |
|------------------------------------------------|--------|----------|------|-------|----|-----------------------|--------------|
| <b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                       | Analyst: JME |
| Diesel Range Organics (DRO)                    | ND     | 9.8      |      | mg/Kg | 1  | 3/11/2015 12:02:29 AM | 18046        |
| Motor Oil Range Organics (MRO)                 | ND     | 49       |      | mg/Kg | 1  | 3/11/2015 12:02:29 AM | 18046        |
| Surr: DNOP                                     | 114    | 63.5-128 |      | %REC  | 1  | 3/11/2015 12:02:29 AM | 18046        |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>        |        |          |      |       |    |                       | Analyst: NSB |
| Gasoline Range Organics (GRO)                  | ND     | 4.8      |      | mg/Kg | 1  | 3/10/2015 3:07:04 PM  | 18044        |
| Surr: BFB                                      | 92.4   | 80-120   |      | %REC  | 1  | 3/10/2015 3:07:04 PM  | 18044        |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    |                       | Analyst: NSB |
| Benzene                                        | ND     | 0.048    |      | mg/Kg | 1  | 3/10/2015 3:07:04 PM  | 18044        |
| Toluene                                        | ND     | 0.048    |      | mg/Kg | 1  | 3/10/2015 3:07:04 PM  | 18044        |
| Ethylbenzene                                   | ND     | 0.048    |      | mg/Kg | 1  | 3/10/2015 3:07:04 PM  | 18044        |
| Xylenes, Total                                 | ND     | 0.097    |      | mg/Kg | 1  | 3/10/2015 3:07:04 PM  | 18044        |
| Surr: 4-Bromofluorobenzene                     | 104    | 80-120   |      | %REC  | 1  | 3/10/2015 3:07:04 PM  | 18044        |

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    | Page 1 of 8 |
|             | 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 Not In Range                             |             |
|             | R | RPD outside accepted recovery limits            | RL | Reporting Detection Limit                          |             |
|             | S | Spike Recovery outside accepted recovery limits |    |                                                    |             |



## Analytical Report

Lab Order 1503301

Date Reported: 3/11/2015

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-2

Project: CoP State Com AI #33

Collection Date: 3/6/2015 9:25:00 AM

Lab ID: 1503301-002

Matrix: SOIL

Received Date: 3/7/2015 11:45:00 AM

| Analyses                                       | Result | RL       | Qual | Units | DF | Date Analyzed        | Batch        |
|------------------------------------------------|--------|----------|------|-------|----|----------------------|--------------|
| <b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                      | Analyst: JME |
| Diesel Range Organics (DRO)                    | ND     | 10       |      | mg/Kg | 1  | 3/11/2015 1:05:56 AM | 18046        |
| Motor Oil Range Organics (MRO)                 | ND     | 50       |      | mg/Kg | 1  | 3/11/2015 1:05:56 AM | 18046        |
| Surr: DNOP                                     | 159    | 63.5-128 | S    | %REC  | 1  | 3/11/2015 1:05:56 AM | 18046        |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>        |        |          |      |       |    |                      | Analyst: NSB |
| Gasoline Range Organics (GRO)                  | ND     | 4.6      |      | mg/Kg | 1  | 3/10/2015 3:35:48 PM | 18044        |
| Surr: BFB                                      | 91.8   | 80-120   |      | %REC  | 1  | 3/10/2015 3:35:48 PM | 18044        |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    |                      | Analyst: NSB |
| Benzene                                        | ND     | 0.046    |      | mg/Kg | 1  | 3/10/2015 3:35:48 PM | 18044        |
| Toluene                                        | ND     | 0.046    |      | mg/Kg | 1  | 3/10/2015 3:35:48 PM | 18044        |
| Ethylbenzene                                   | ND     | 0.046    |      | mg/Kg | 1  | 3/10/2015 3:35:48 PM | 18044        |
| Xylenes, Total                                 | ND     | 0.091    |      | mg/Kg | 1  | 3/10/2015 3:35:48 PM | 18044        |
| Surr: 4-Bromofluorobenzene                     | 103    | 80-120   |      | %REC  | 1  | 3/10/2015 3:35:48 PM | 18044        |

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

|                    |   |                                                 |
|--------------------|---|-------------------------------------------------|
| <b>Qualifiers:</b> | * | 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 Not In Range                             |
| RL | Reporting Detection Limit                          |

## Analytical Report

Lab Order 1503301

Date Reported: 3/11/2015

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-3

Project: CoP State Com AI #33

Collection Date: 3/6/2015 9:30:00 AM

Lab ID: 1503301-003

Matrix: SOIL

Received Date: 3/7/2015 11:45:00 AM

| Analyses                                       | Result | RL       | Qual | Units | DF | Date Analyzed        | Batch        |
|------------------------------------------------|--------|----------|------|-------|----|----------------------|--------------|
| <b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                      | Analyst: JME |
| Diesel Range Organics (DRO)                    | ND     | 9.7      |      | mg/Kg | 1  | 3/11/2015 1:27:11 AM | 18046        |
| Motor Oil Range Organics (MRO)                 | ND     | 49       |      | mg/Kg | 1  | 3/11/2015 1:27:11 AM | 18046        |
| Surr: DNOP                                     | 148    | 63.5-128 | S    | %REC  | 1  | 3/11/2015 1:27:11 AM | 18046        |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>        |        |          |      |       |    |                      | Analyst: NSB |
| Gasoline Range Organics (GRO)                  | ND     | 4.7      |      | mg/Kg | 1  | 3/10/2015 4:04:34 PM | 18044        |
| Surr: BFB                                      | 91.0   | 80-120   |      | %REC  | 1  | 3/10/2015 4:04:34 PM | 18044        |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    |                      | Analyst: NSB |
| Benzene                                        | ND     | 0.047    |      | mg/Kg | 1  | 3/10/2015 4:04:34 PM | 18044        |
| Toluene                                        | ND     | 0.047    |      | mg/Kg | 1  | 3/10/2015 4:04:34 PM | 18044        |
| Ethylbenzene                                   | ND     | 0.047    |      | mg/Kg | 1  | 3/10/2015 4:04:34 PM | 18044        |
| Xylenes, Total                                 | ND     | 0.094    |      | mg/Kg | 1  | 3/10/2015 4:04:34 PM | 18044        |
| Surr: 4-Bromofluorobenzene                     | 102    | 80-120   |      | %REC  | 1  | 3/10/2015 4:04:34 PM | 18044        |

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

**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 Not In Range
- RL Reporting Detection Limit



## Analytical Report

Lab Order 1503301

Date Reported: 3/11/2015

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-4

Project: CoP State Com AI #33

Collection Date: 3/6/2015 9:35:00 AM

Lab ID: 1503301-004

Matrix: SOIL

Received Date: 3/7/2015 11:45:00 AM

| Analyses                                       | Result | RL       | Qual | Units | DF | Date Analyzed         | Batch               |
|------------------------------------------------|--------|----------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                       | Analyst: <b>JME</b> |
| Diesel Range Organics (DRO)                    | 15     | 10       |      | mg/Kg | 1  | 3/11/2015 2:09:27 AM  | 18046               |
| Motor Oil Range Organics (MRO)                 | ND     | 50       |      | mg/Kg | 1  | 3/11/2015 2:09:27 AM  | 18046               |
| Surr: DNOP                                     | 120    | 63.5-128 |      | %REC  | 1  | 3/11/2015 2:09:27 AM  | 18046               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>        |        |          |      |       |    |                       | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                  | ND     | 4.7      |      | mg/Kg | 1  | 3/10/2015 10:17:12 PM | 18044               |
| Surr: BFB                                      | 90.7   | 80-120   |      | %REC  | 1  | 3/10/2015 10:17:12 PM | 18044               |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    |                       | Analyst: <b>NSB</b> |
| Benzene                                        | ND     | 0.047    |      | mg/Kg | 1  | 3/10/2015 10:17:12 PM | 18044               |
| Toluene                                        | ND     | 0.047    |      | mg/Kg | 1  | 3/10/2015 10:17:12 PM | 18044               |
| Ethylbenzene                                   | ND     | 0.047    |      | mg/Kg | 1  | 3/10/2015 10:17:12 PM | 18044               |
| Xylenes, Total                                 | ND     | 0.095    |      | mg/Kg | 1  | 3/10/2015 10:17:12 PM | 18044               |
| Surr: 4-Bromofluorobenzene                     | 99.8   | 80-120   |      | %REC  | 1  | 3/10/2015 10:17:12 PM | 18044               |

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

|                    |   |                                                 |    |                                                    |             |
|--------------------|---|-------------------------------------------------|----|----------------------------------------------------|-------------|
| <b>Qualifiers:</b> | * | Value exceeds Maximum Contaminant Level.        | B  | Analyte detected in the associated Method Blank    | Page 4 of 8 |
|                    | 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 Not In Range                             |             |
|                    | 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#: 1503301

11-Mar-15

Client: Animas Environmental

Project: CoP State Com AI #33

|            |           |     |                          |             |                                                   |          |             |      |          |      |
|------------|-----------|-----|--------------------------|-------------|---------------------------------------------------|----------|-------------|------|----------|------|
| Sample ID  | MB-18057  |     | SampType: MBLK           |             | TestCode: EPA Method 8015D: Diesel Range Organics |          |             |      |          |      |
| Client ID: | PBS       |     | Batch ID: 18057          |             | RunNo: 24711                                      |          |             |      |          |      |
| Prep Date: | 3/10/2015 |     | Analysis Date: 3/10/2015 |             | SeqNo: 728324                                     |          | Units: %REC |      |          |      |
| Analyte    | Result    | PQL | SPK value                | SPK Ref Val | %REC                                              | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Surr: DNOP | 8.4       |     | 10.00                    |             | 84.2                                              | 63.5     | 128         |      |          |      |

|            |           |     |                          |             |                                                   |          |             |      |          |      |
|------------|-----------|-----|--------------------------|-------------|---------------------------------------------------|----------|-------------|------|----------|------|
| Sample ID  | LCS-18057 |     | SampType: LCS            |             | TestCode: EPA Method 8015D: Diesel Range Organics |          |             |      |          |      |
| Client ID: | LCSS      |     | Batch ID: 18057          |             | RunNo: 24711                                      |          |             |      |          |      |
| Prep Date: | 3/10/2015 |     | Analysis Date: 3/10/2015 |             | SeqNo: 728326                                     |          | Units: %REC |      |          |      |
| Analyte    | Result    | PQL | SPK value                | SPK Ref Val | %REC                                              | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.4       |     | 5.000                    |             | 87.4                                              | 63.5     | 128         |      |          |      |

|                                |          |                          |           |             |                                                   |          |              |      |          |      |
|--------------------------------|----------|--------------------------|-----------|-------------|---------------------------------------------------|----------|--------------|------|----------|------|
| Sample ID                      | MB-18046 | SampType: MBLK           |           |             | TestCode: EPA Method 8015D: Diesel Range Organics |          |              |      |          |      |
| Client ID:                     | PBS      | Batch ID: 18046          |           |             | RunNo: 24724                                      |          |              |      |          |      |
| Prep Date:                     | 3/9/2015 | Analysis Date: 3/10/2015 |           |             | SeqNo: 728339                                     |          | 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                     | 7.6      |                          | 10.00     |             | 76.3                                              | 63.5     | 128          |      |          |      |

|            |          |                          |           |             |                                                   |          |             |      |          |      |
|------------|----------|--------------------------|-----------|-------------|---------------------------------------------------|----------|-------------|------|----------|------|
| Sample ID  | MB-18049 | SampType: MBLK           |           |             | TestCode: EPA Method 8015D: Diesel Range Organics |          |             |      |          |      |
| Client ID: | PBS      | Batch ID: 18049          |           |             | RunNo: 24724                                      |          |             |      |          |      |
| Prep Date: | 3/9/2015 | Analysis Date: 3/10/2015 |           |             | SeqNo: 728340                                     |          | Units: %REC |      |          |      |
| Analyte    | Result   | PQL                      | SPK value | SPK Ref Val | %REC                                              | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Surr: DNOP | 8.9      |                          | 10.00     |             | 89.3                                              | 63.5     | 128         |      |          |      |

|                             |           |     |                          |             |                                                   |          |              |      |          |      |
|-----------------------------|-----------|-----|--------------------------|-------------|---------------------------------------------------|----------|--------------|------|----------|------|
| Sample ID                   | LCS-18046 |     | SampType: LCS            |             | TestCode: EPA Method 8015D: Diesel Range Organics |          |              |      |          |      |
| Client ID:                  | LCSS      |     | Batch ID: 18046          |             | RunNo: 24724                                      |          |              |      |          |      |
| Prep Date:                  | 3/9/2015  |     | Analysis Date: 3/10/2015 |             | SeqNo: 728341                                     |          | 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           | 93.4                                              | 67.8     | 130          |      |          |      |
| Surr: DNOP                  | 4.2       |     | 5.000                    |             | 83.7                                              | 63.5     | 128          |      |          |      |

|            |           |     |                          |             |                                                   |          |             |      |          |      |
|------------|-----------|-----|--------------------------|-------------|---------------------------------------------------|----------|-------------|------|----------|------|
| Sample ID  | LCS-18049 |     | SampType: LCS            |             | TestCode: EPA Method 8015D: Diesel Range Organics |          |             |      |          |      |
| Client ID: | LCSS      |     | Batch ID: 18049          |             | RunNo: 24724                                      |          |             |      |          |      |
| Prep Date: | 3/9/2015  |     | Analysis Date: 3/10/2015 |             | SeqNo: 728364                                     |          | Units: %REC |      |          |      |
| Analyte    | Result    | PQL | SPK value                | SPK Ref Val | %REC                                              | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.6       |     | 5.000                    |             | 91.5                                              | 63.5     | 128         |      |          |      |

### Qualifiers:

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# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1503301

11-Mar-15

Client: Animas Environmental

Project: CoP State Com AI #33

|                             |                |                |           |             |                                         |          |           |      |          |      |
|-----------------------------|----------------|----------------|-----------|-------------|-----------------------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 1503301-001AMS | SampType:      | MS        | TestCode:   | EPA Method 8015D: Diesel Range Organics |          |           |      |          |      |
| Client ID:                  | SC-1           | Batch ID:      | 18046     | RunNo:      | 24711                                   |          |           |      |          |      |
| Prep Date:                  | 3/9/2015       | Analysis Date: | 3/11/2015 | SeqNo:      | 728831                                  | Units:   | mg/Kg     |      |          |      |
| Analyte                     | Result         | PQL            | SPK value | SPK Ref Val | %REC                                    | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 48             | 9.9            | 49.26     | 0           | 98.3                                    | 29.2     | 176       |      |          |      |
| Surr: DNOP                  | 5.6            |                | 4.926     |             | 114                                     | 63.5     | 128       |      |          |      |

|                             |                 |                |           |             |                                         |          |           |      |          |      |
|-----------------------------|-----------------|----------------|-----------|-------------|-----------------------------------------|----------|-----------|------|----------|------|
| Sample ID                   | 1503301-001AMSD | SampType:      | MSD       | TestCode:   | EPA Method 8015D: Diesel Range Organics |          |           |      |          |      |
| Client ID:                  | SC-1            | Batch ID:      | 18046     | RunNo:      | 24711                                   |          |           |      |          |      |
| Prep Date:                  | 3/9/2015        | Analysis Date: | 3/11/2015 | SeqNo:      | 728833                                  | Units:   | mg/Kg     |      |          |      |
| Analyte                     | Result          | PQL            | SPK value | SPK Ref Val | %REC                                    | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 55              | 10             | 50.15     | 0           | 109                                     | 29.2     | 176       | 12.4 | 23       |      |
| Surr: DNOP                  | 6.7             |                | 5.015     |             | 134                                     | 63.5     | 128       | 0    | 0        | S    |

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WO#: 1503301

11-Mar-15

Client: Animas Environmental

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|                               |          |     |                          |             |                                            |          |              |      |          |      |
|-------------------------------|----------|-----|--------------------------|-------------|--------------------------------------------|----------|--------------|------|----------|------|
| Sample ID                     | MB-18044 |     | SampType: MBLK           |             | TestCode: EPA Method 8015D: Gasoline Range |          |              |      |          |      |
| Client ID:                    | PBS      |     | Batch ID: 18044          |             | RunNo: 24730                               |          |              |      |          |      |
| Prep Date:                    | 3/9/2015 |     | Analysis Date: 3/10/2015 |             | SeqNo: 728732                              |          | 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                     | 900      |     | 1000                     |             | 89.5                                       | 80       | 120          |      |          |      |

|                               |           |     |                          |             |                                            |          |              |      |          |      |
|-------------------------------|-----------|-----|--------------------------|-------------|--------------------------------------------|----------|--------------|------|----------|------|
| Sample ID                     | LCS-18044 |     | SampType: LCS            |             | TestCode: EPA Method 8015D: Gasoline Range |          |              |      |          |      |
| Client ID:                    | LCSS      |     | Batch ID: 18044          |             | RunNo: 24730                               |          |              |      |          |      |
| Prep Date:                    | 3/9/2015  |     | Analysis Date: 3/10/2015 |             | SeqNo: 728733                              |          | Units: mg/Kg |      |          |      |
| Analyte                       | Result    | PQL | SPK value                | SPK Ref Val | %REC                                       | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 28        | 5.0 | 25.00                    | 0           | 112                                        | 64       | 130          |      |          |      |
| Surr: BFB                     | 1100      |     | 1000                     |             | 108                                        | 80       | 120          |      |          |      |

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# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1503301

11-Mar-15

Client: Animas Environmental

Project: CoP State Com AI #33

|                            |                 |       |                |                  |      |           |                                    |      |                     |      |
|----------------------------|-----------------|-------|----------------|------------------|------|-----------|------------------------------------|------|---------------------|------|
| Sample ID                  | <b>MB-18044</b> |       | SampType:      | <b>MBLK</b>      |      | TestCode: | <b>EPA Method 8021B: Volatiles</b> |      |                     |      |
| Client ID:                 | <b>PBS</b>      |       | Batch ID:      | <b>18044</b>     |      | RunNo:    | <b>24730</b>                       |      |                     |      |
| Prep Date:                 | <b>3/9/2015</b> |       | Analysis Date: | <b>3/10/2015</b> |      | SeqNo:    | <b>728766</b>                      |      | Units: <b>mg/Kg</b> |      |
| 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          |                  | 102  | 80        | 120                                |      |                     |      |

|                            |                  |       |                |                  |      |           |                                    |      |                     |      |
|----------------------------|------------------|-------|----------------|------------------|------|-----------|------------------------------------|------|---------------------|------|
| Sample ID                  | <b>LCS-18044</b> |       | SampType:      | <b>LCS</b>       |      | TestCode: | <b>EPA Method 8021B: Volatiles</b> |      |                     |      |
| Client ID:                 | <b>LCSS</b>      |       | Batch ID:      | <b>18044</b>     |      | RunNo:    | <b>24730</b>                       |      |                     |      |
| Prep Date:                 | <b>3/9/2015</b>  |       | Analysis Date: | <b>3/10/2015</b> |      | SeqNo:    | <b>728767</b>                      |      | Units: <b>mg/Kg</b> |      |
| Analyte                    | Result           | PQL   | SPK value      | SPK Ref Val      | %REC | LowLimit  | HighLimit                          | %RPD | RPDLimit            | Qual |
| Benzene                    | 1.2              | 0.050 | 1.000          | 0                | 116  | 76.6      | 128                                |      |                     |      |
| Toluene                    | 1.1              | 0.050 | 1.000          | 0                | 109  | 75        | 124                                |      |                     |      |
| Ethylbenzene               | 1.1              | 0.050 | 1.000          | 0                | 111  | 79.5      | 126                                |      |                     |      |
| Xylenes, Total             | 3.3              | 0.10  | 3.000          | 0                | 110  | 78.8      | 124                                |      |                     |      |
| Surr: 4-Bromofluorobenzene | 1.1              |       | 1.000          |                  | 112  | 80        | 120                                |      |                     |      |

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

## Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1503301

RcptNo: 1

Received by/date:

AF

03/07/15

Logged By: Lindsay Mangin

3/7/2015 11:45:00 AM

*Lindsay Mangin*

Completed By: Lindsay Mangin

3/9/2015 10:03:39 AM

*Lindsay Mangin*

Reviewed By:

*[Signature]*

03/09/15

### 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  $6.0^{\circ}\text{C}$ ? 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         | 5.1                     | Good      | Yes         |         |           |           |



Turn-Around Time:

☒ Standard      ☐ Rush

Project Name:

CoP State Com AI #33

Project #:

Project Manager: \_\_\_\_\_

E. Skyles

Sampler: C. Lameman

☒ Standard ☐ Level 4 (Full Validation)

## Accreditation

☐ NELAP      ☐ Other☐ EDD (Type)

Sample Temperature: 5.1 / 5.1

[illegible]

|       |       |                  |
|-------|-------|------------------|
| Date: | Time: | Relinquished by: |
|-------|-------|------------------|

|        |      |     |   |
|--------|------|-----|---|
| 1/6/15 | 1714 | Qin | 1 |
|--------|------|-----|---|

Received by:

Christine W. 3/6/15 1714

Remarks: Bill to ConocoPhillips

W6#: 10374348

UserID: KLGARCIA

SUPERVISOR: FALCOTRUILLO

ACT CODE: T710

ordered by: Ralph Sloan

Area: 21 LWN: 156

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.



**ConocoPhillips Co:**

Latitude Longitude  
N36°31.7 W107°48.8

**STATE COM. AI NO 33**  
**SE ¼ SW ¼ 1190' FSL & 1650' FWL**  
**SEC. 32 - T 27 N - R 9 W**  
**SAN JUAN COUNTY, NEW MEXICO**

03/11/2015 15:42





03/11/2015 15:45





03/11/2015 15:43