

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

Form C-144
Revised 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
Proposed Alternative Method Permit or Closure Plan Application

OIL CONS. DIV DIST. 3

APR 12 2016

- 14302
- Type of action: Below grade tank registration
 Permit of a pit or proposed alternative method
 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

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: Chacon Hill 2
API Number: 30-039-22136 OCD Permit Number: _____
U/L or Qtr/Qtr G Section 20 Township 24N Range 3W County: Rio Arriba
Center of Proposed Design: Latitude 36.297939 °N Longitude -107.176820 °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 _____ mil HDPE PVC Other Unspecified

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 _____

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.

Variations 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

<p>Within 100 feet of a wetland.</p> <ul style="list-style-type: none"> - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><u>Temporary Pit Non-low chloride drilling fluid</u></p>	
<p>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).</p> <ul style="list-style-type: none"> - Topographic map; Visual inspection (certification) of the proposed site 	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</p> <ul style="list-style-type: none"> - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>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;</p> <ul style="list-style-type: none"> - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 300 feet of a wetland.</p> <ul style="list-style-type: none"> - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p><u>Permanent Pit or Multi-Well Fluid Management Pit</u></p>	
<p>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).</p> <ul style="list-style-type: none"> - Topographic map; Visual inspection (certification) of the proposed site 	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</p> <ul style="list-style-type: none"> - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>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.</p> <ul style="list-style-type: none"> - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	<input type="checkbox"/> Yes <input type="checkbox"/> No
<p>Within 500 feet of a wetland.</p> <ul style="list-style-type: none"> - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	<input type="checkbox"/> Yes <input type="checkbox"/> 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 H₂S, 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.
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | <input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> NA |
| Ground water is between 25-50 feet below the bottom of the buried waste
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | <input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> NA |
| Ground water is more than 100 feet below the bottom of the buried waste.
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | <input type="checkbox"/> Yes <input type="checkbox"/> No
<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).
- 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.
- 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.
- 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.
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 | <input type="checkbox"/> Yes <input type="checkbox"/> No |

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within a 100-year floodplain. - FEMA map	<input type="checkbox"/> Yes <input type="checkbox"/> 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: Dan... Approval Date: 04/12/2016

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: 10/21/2013

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.*

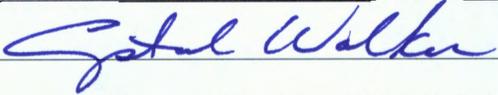
- Proof of Closure Notice (surface owner and division)
- Proof of Deed Notice (required for on-site closure for private land only)
- Plot Plan (for on-site closures and temporary pits)
- Confirmation Sampling Analytical Results (if applicable)
- Waste Material Sampling Analytical Results (required for 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): Crystal Walker Title: Regulatory Coordinator

Signature:  Date: 4/12/16

e-mail address: crystal.walker@cop.com Telephone: (505) 326-9837

Burlington Resources Oil & Gas Company, LP
San Juan Basin
Below Grade Tank Closure Report

Lease Name: Chacon Hill 2
API No.: 30-039-22136

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. BR 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.

The below-grade tank referenced above was permitted and closed within 60 days of cessation of the below-grade tanks operation.

2. BR 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.

3. BR 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.

4. If there is any on-site equipment associated with a below-grade tank, then BR 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.

5. BR will test the soils beneath the below-grade tank to determine whether a release has occurred. BR 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.

A five point composite sample was taken of the below-grade tank using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached). Form C-141 is 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 300.0	250

6. If BR or the division determines that a release has occurred, then BR 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. Refer to Guidelines of Spills and Releases.

7. 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 BR shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.

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.

8. 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 was not found.

9. The surface owner shall be notified of BR'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 was not found.

10. 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 placed 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.

11. BR 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.

12. 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.

13. 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)**

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State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company ConocoPhillips Company	Contact Ashley Maxwell
Address 3401 E. 30th St., Farmington, NM 87402	Telephone No. 505-324-5169
Facility Name Chacon Hill #2	Facility Type Gas Well
Surface Owner Federal	Mineral Owner Federal
API No. 3003922136 SF-079456	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	20	024N	003W	1850'	North	1850'	East	Rio Arriba

Latitude 36.297988 Longitude -107.17658

NATURE OF RELEASE

Type of Release Production Fluids	Volume of Release Unknown	Volume Recovered 492 yds³
Source of Release Below Grade Tank	Date and Hour of Occurrence 9/10/2012	Date and Hour of Discovery
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* **Below Grade Tank Closure Activities**

Describe Area Affected and Cleanup Action Taken.*

Excavation was required based on NMOCD Guidelines for Remediation of Leaks, Spills and Releases. The excavation was 30'X40'X11' and 492 yds³ of soil was transported to a third party land farm. Excavation and confirmation sampling occurred. Analytical results were below the regulatory standards set forth by NMOCD action levels; therefore no further action is needed.

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

Signature: 	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Ashley Maxwell	Approved by Environmental Specialist:	
Title: Field Environmental Specialist	Approval Date:	Expiration Date:
E-mail Address: ashley.p.wethington@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date January 4, 2013 Phone: 505-324-5169		

* Attach Additional Sheets If Necessary



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3274

December 28, 2012

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

**RE: Initial Release Assessment and Final Excavation Report
Chacon Hill #2
Rio Arriba County, New Mexico**

Dear Ms. Maxwell:

On August 7 and September 11, 2012, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) Chacon Hill #2, located in Rio Arriba County, New Mexico. The historical release was associated with the below grade tank (BGT) at the location. The initial release assessment was completed by AES on August 7, 2012. The final excavation was completed by contractors while AES was on location on September 11, 2012.

1.0 Site Information

1.1 Location

Location – SW¼ NE¼, Section 20, T24N, R3W, Rio Arriba County, New Mexico
Well Head Latitude/Longitude – N36.29802 and W107.17717, respectively
Release Location Latitude/Longitude – N36.29794 and W107.17682, respectively
Land Jurisdiction – Private

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, August 2012

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a Pit Site Assessment form dated April 1996 for the Chacon Hill #2 reported the depth to groundwater at less than 50 feet below ground surface (bgs). The New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby water wells, and no registered water wells were reported to be located within 1,000 feet of the location. Additionally, Google Earth and the New Mexico Tech Petroleum

Recovery Research Center online mapping tool (<http://ford.nmt.edu/react/project.html>) were accessed to aid in the identification of downgradient surface water.

Once on site, AES personnel further assessed the ranking using topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site was less than 50 feet bgs. The wash in Medio Canyon is located approximately 530 feet southwest of the release location. Based on this information, the location was assessed a ranking score of 30 per the *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993).

1.3 Assessment

AES was initially contacted by Ashley Maxwell of CoP on August 1, 2012, and on August 7, 2012, Heather Woods and Zachary Trujillo of AES completed the release assessment field work. The assessment included collection and field screening of 44 soil samples (SB-1 through SB-11) from 11 soil borings in and around the release area. Based on the field screening results, AES recommended an area of excavation. Sample locations are shown on Figure 3.

On September 11, 2012, AES returned to the location to collect confirmation soil samples of the excavation. The field screening activities included collection of seven confirmation soil samples (SC-1 through SC-7) of the walls and base of the excavation. The area of the final excavation was approximately 880 ft² by 12 feet in depth. Sample locations and final excavation extents are shown on Figure 4.

2.0 Soil Sampling

A total of 44 soil samples from 11 soil borings (SB-1 through SB-11) and 7 composite samples (SC-1 through SC-7) were collected during the release assessments. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Two composite samples (SC-6 and SC-7) collected during the excavation clearance were submitted for laboratory analysis.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

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

2.1.2 Total Petroleum Hydrocarbons

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

2.2 Laboratory Analyses

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

- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B.

2.3 Field Screening and Laboratory Analytical Results

On August 7, 2012, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 1.5 ppm in SB-3 up to 4,110 ppm in SB-1. Field TPH concentrations ranged from 94.6 mg/kg in SB-2 up to greater than 2,500 mg/kg in SB-4.

On September 11, 2012, final excavation field screening results for VOCs via OVM showed concentrations ranging from 1.9 ppm in SC-3 to 38.0 ppm in SC-6. Field TPH concentrations ranged from 65.5 mg/kg in SC-3 up to 618 mg/kg in SC-5. Results are included below in Table 1 and on Figures 3 and 4. The AES field screening reports are attached.

Table 1. Soil Field Screening VOCs and TPH Results
 Chacon Hill #2 Initial Release Assessment and Final Excavation
 August and September 2012

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>Field TPH (mg/kg)</i>
		<i>NMOCD Action Level*</i>	100	100
SB-1	8/7/12	7	4,110	NA
		10	1,411	NA
		11	113	1,030
		14	136	266
		16	44.1	117
SB-2	8/7/12	6	24.5	NA
		8	349	NA
		11	20.2	1,230
		14	13.6	94.6
SB-3	8/7/12	6	1.5	NA
		10	3.9	NA
		12	4.1	108
SB-4	8/7/12	6	3.5	NA
		8	3.2	NA
		10	18.1	>2,500
		12	6.0	118
SB-5	8/7/12	6	6.0	NA
		8	13.3	NA
		12	11.5	127
SB-6	8/7/12	4	747	NA
		6	3,859	NA
		8	556	NA
		10	247	NA
		12	564	1,220
SB-7	8/7/12	2	7.9	NA
		4	10.8	NA
		7	10.0	NA

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	Field TPH (mg/kg)
		<i>NMOCD Action Level*</i>	100	100
SB-7	8/7/12	10	6.0	98.5
SB-8	8/7/12	3	5.7	NA
		6	6.2	136
SB-9	8/7/12	2	7.2	NA
		4	8.3	NA
SB-10	8/7/12	2	7.4	NA
		4	8.9	NA
		6	9.9	NA
		8	8.2	NA
		10	6.9	117
		12	7.2	NA
SB-11	8/7/12	2	2.5	NA
		4	3.8	NA
		6	5.3	NA
		8	3.5	NA
		10	5.2	NA
		12	3.4	135
SC-1	9/11/12	1 to 12	22.4	242
SC-2	9/11/12	12	6.3	85.2
SC-3	9/11/12	1 to 12	1.9	65.5
SC-4	9/11/12	1 to 12	33.9	90.1
SC-5	9/11/12	1 to 12	5.8	618
SC-6	9/11/12	1 to 12	38.0	122
SC-7	9/11/12	1 to 12	30.0	158

NA – Not Analyzed

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

Laboratory analyses for SC-6 and SC-7 were used to confirm field screening results during excavation activities. TPH concentrations as GRO/DRO were reported at 25

mg/kg in SC-6 and less than 14.9 mg/kg in SC-7. Results are presented in Table 2 and on Figure 4. The laboratory analytical report is attached.

Table 2. Laboratory Analytical Results –TPH
 Chacon Hill #2 Final Excavation, September 2012

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>GRO (mg/kg)</i>	<i>DRO (mg/kg)</i>
NMOCD Action Level*			100	
SC-6	9/11/12	1 to 12	<5.0	25
SC-7	9/11/12	1 to 12	<5.0	<9.9

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

3.0 Conclusions and Recommendations

On August 7, 2012, AES conducted an initial assessment of the excavation associated with a historical release at the Chacon Hill #2. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993), and the site was assigned a ranking of 30. Field screening results above the NMOCD action level of 100 ppm VOCs were reported in SB-1, SB-2, and SB-6. The highest VOC concentration was reported in SB-1 with 4,110 ppm. Field screening results also showed TPH concentrations above the NMOCD action level of 100 mg/kg in SB-1 through SB-6, SB-8, SB-10, and SB-11. The highest TPH concentration was reported in SB-4 with greater than 2,500 mg/kg.

On September 11, 2012, final assessment of the excavation area was completed. Field screening results of the excavation extents showed that VOC concentrations were below the NMOCD action level for all of the final four walls and base of the excavation. Field TPH concentrations above the applicable NMOCD action level of 100 mg/kg were reported in SC-6 (122 mg/kg) and SC-7 (158 mg/kg). However, laboratory analytical results for SC-6 and SC-7 from September 11, 2012, reported TPH concentrations as GRO/DRO below the applicable NMOCD action level of 100 mg/kg.

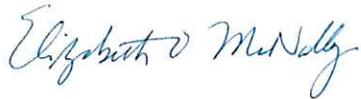
Based on the final field screening results of the excavation of petroleum contaminated soils at the Chacon Hill #2, VOC and TPH concentrations were below applicable NMOCD action levels for each of the sidewalls and the base of the excavation. No further work is recommended.

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

Sincerely,



Heather M. Woods
Staff Geologist



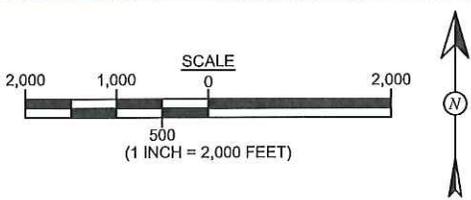
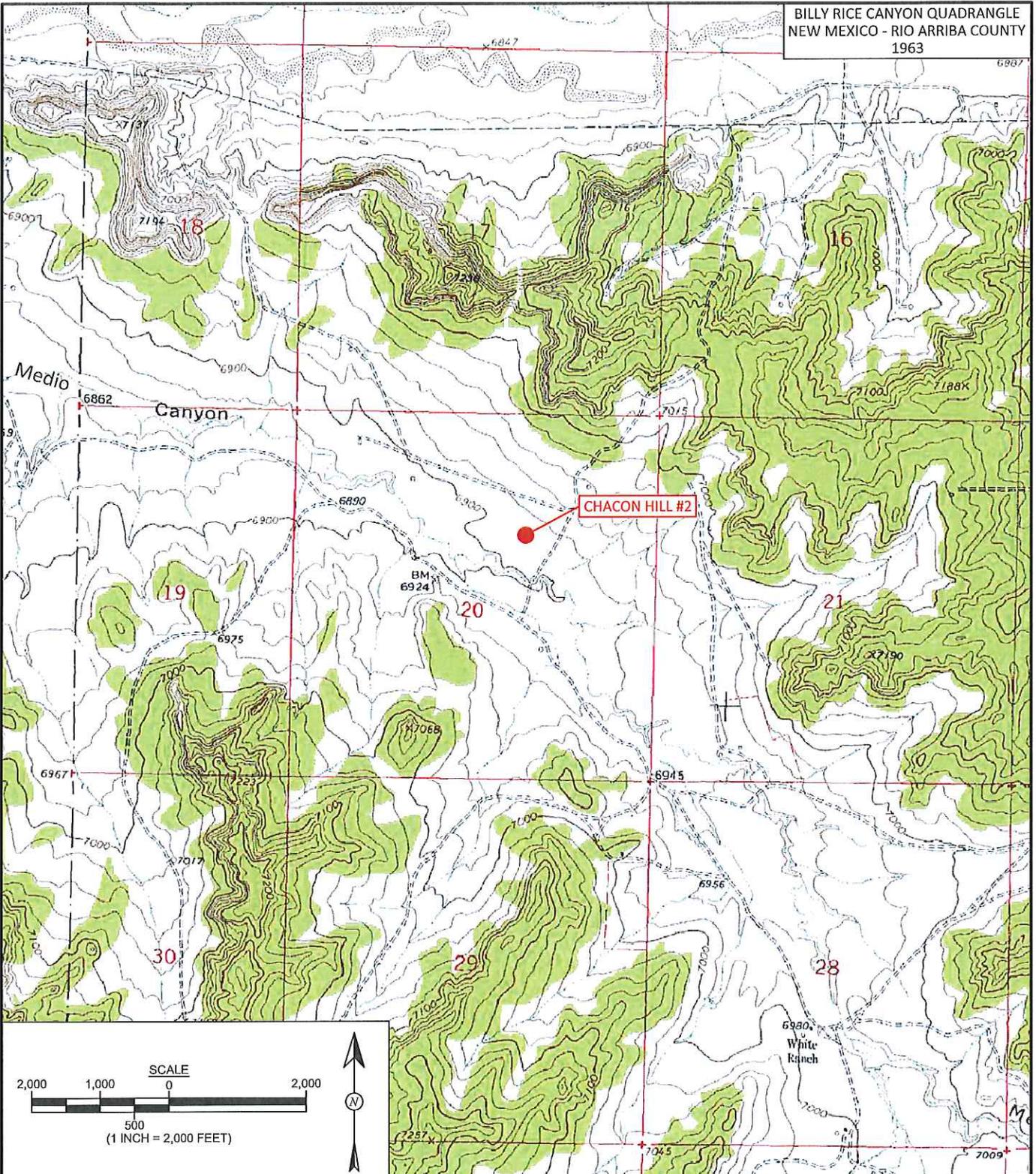
Elizabeth McNally, PE

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, August 2012
- Figure 3. Initial Assessment Soil Sample Locations and Results, August 2012
- Figure 4. Final Excavation Soil Sample Locations and Results, September 2012
- AES Field Screening Report 080712
- AES Field Screening Report 091112
- Hall Laboratory Analytical Report 1209445

R:\Animas 2000\Dropbox\2012 December 2012\ConocoPhillips\Chacon Hill #2\Chacon Hill #2 Initial Release Assessment and Final Excavation Report 122812.docx

BILLY RICE CANYON QUADRANGLE
 NEW MEXICO - RIO ARRIBA COUNTY
 1963



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: August 9, 2012
REVISIONS BY: C. Lameman	DATE REVISED: August 9, 2012
CHECKED BY: D. Watson	DATE CHECKED: August 9, 2012
APPROVED BY: E. McNally	DATE APPROVED: August 9, 2012

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
 ConocoPhillips
 CHACON HILL #2
 RIO ARRIBA COUNTY, NEW MEXICO
 SW¼ NE¼, SECTION 20, T24N, R3W
 N36.29802, W107.17717



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: August 9, 2012
REVISIONS BY: C. Lameman	DATE REVISED: August 9, 2012
CHECKED BY: D. Watson	DATE CHECKED: August 9, 2012
APPROVED BY: E. McNally	DATE APPROVED: August 9, 2012

FIGURE 2

**AERIAL SITE MAP
AUGUST 2012**
ConocoPhillips
CHACON HILL #2
RIO ARriba COUNTY, NEW MEXICO
SW¼ NE¼, SECTION 20, T24N, R3W
N36.29802, W107.17717

FIGURE 3

INITIAL ASSESSMENT SAMPLE LOCATIONS AND RESULTS
AUGUST 2012

ConocoPhillips
CHACON HILL #2
RIO ARRIBA COUNTY, NEW MEXICO
SW¼ NE¼ SECTION 20, T24N, R3W
N36.29794, W107.17717

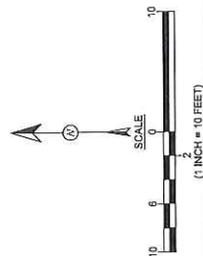


Animas Environmental Services, LLC

DRAWN BY: C. Lammeman	DATE DRAWN: August 9, 2012
REVISIONS BY: C. Lammeman	DATE REVISED: August 9, 2012
CHECKED BY: D. Watson	DATE CHECKED: August 14, 2012
APPROVED BY: E. McNally	DATE APPROVED: August 14, 2012

LEGEND

- SAMPLE LOCATIONS
- SECONDARY CONTAINMENT BERM



Sample ID	Field Screening Results			TPH (mg/kg)
	Date	Depth (ft)	OVN- PID (ppm)	
SB-1	8/7/12	7	4,110	NA
		10	1,411	NA
		11	113	1,030
SB-2	8/7/12	14	136	266
		16	44.1	117
		6	24.5	NA
		8	349	NA
SB-3	8/7/12	11	20.2	1,230
		14	13.6	94.6
SB-4	8/7/12	6	1.5	NA
		10	3.9	NA
SB-5	8/7/12	12	4.1	108
		6	3.5	NA
		8	3.2	NA
SB-6	8/7/12	10	18.1	>2,500
		12	6.0	118
SB-7	8/7/12	6	6.0	NA
		8	13.3	NA
SB-8	8/7/12	12	11.5	127
		4	747	NA
SB-9	8/7/12	6	3,859	NA
		8	556	NA
SB-10	8/7/12	10	247	NA
		12	564	1,220
SB-11	8/7/12	2	7.9	NA
		4	10.8	NA
SB-12	8/7/12	7	10.0	NA
		10	6.0	98.5
SB-13	8/7/12	3	5.7	NA
		6	6.2	136
SB-14	8/7/12	2	7.2	NA
		4	8.3	NA
SB-15	8/7/12	2	7.4	NA
		4	8.9	NA
SB-16	8/7/12	6	9.9	NA
		8	8.2	NA
SB-17	8/7/12	10	6.9	117
		12	7.2	NA
SB-18	8/7/12	2	2.5	NA
		4	3.8	NA
SB-19	8/7/12	6	5.3	NA
		8	3.5	NA
SB-20	8/7/12	10	5.2	NA
		12	3.4	135

NA - NOT ANALYZED

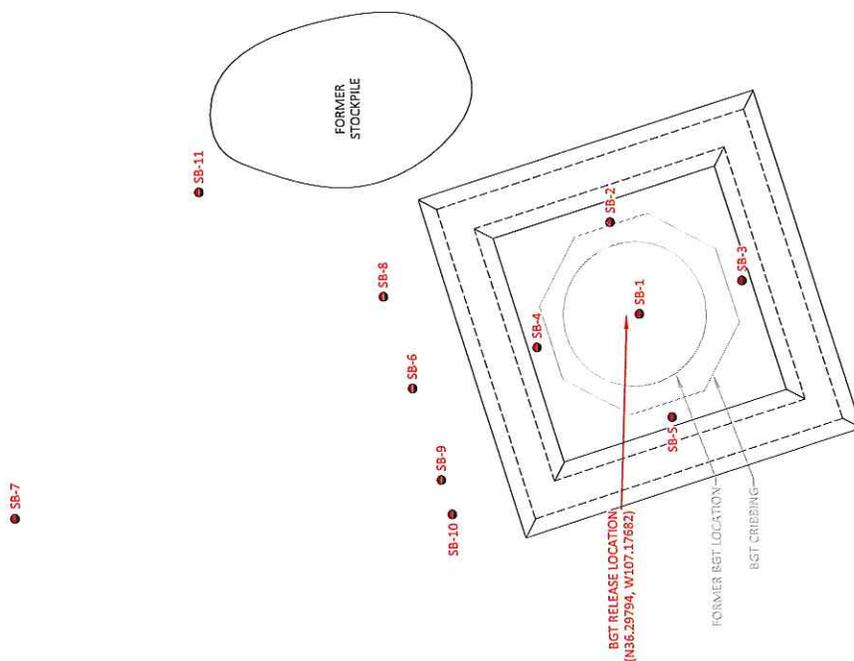


FIGURE 4

**FINAL EXCAVATION SOIL
SAMPLE LOCATIONS AND RESULTS
SEPTEMBER 2012**

ConocoPhillips
CHALCON HILL #2
RIO ARriba COUNTY, NEW MEXICO
SW 1/4 NE 1/4, SECTION 20, T24N, R3W
N36.29802, W107.47717

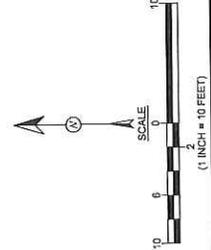


Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: September 13, 2012
REVISIONS BY: C. Lameman	DATE REVISED: September 13, 2012
CHECKED BY: D. Watson	DATE CHECKED: September 13, 2012
APPROVED BY: E. McNally	DATE APPROVED: September 13, 2012

LEGEND

- SAMPLE LOCATIONS
- ===== SECONDARY CONTAINMENT BERM

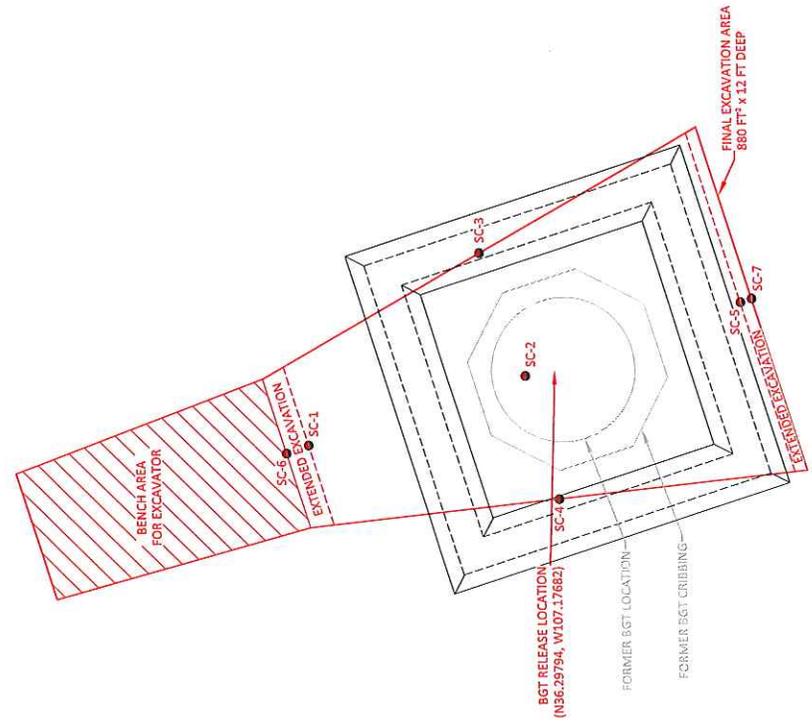


Sample ID	Date	Depth (ft)	OVIM- PID (ppm)	TPH (mg/kg)
			NMOC ACTION LEVEL 100	100
SC-1	9/11/12	1 to 12	22.4	242
SC-2	9/11/12	12	6.3	85.2
SC-3	9/11/12	1 to 12	1.9	65.5
SC-4	9/11/12	1 to 12	33.9	90.4
SC-5	9/11/12	1 to 12	5.8	618
SC-6	9/11/12	1 to 12	38.0	122
SC-7	9/11/12	1 to 12	30.0	158

NA - NOT ANALYZED

Sample ID	Date	Depth (ft)	TPH- GHO (mg/kg)	TPH- DNO (mg/kg)
			NMOC ACTION LEVEL 100	100
SC-6	9/11/12	1 to 12	<5.0	25
SC-7	9/11/12	1 to 12	<5.0	<9.9

ALL SAMPLES WERE ANALYZED PER EPA METHOD 8015B.



AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3274

Client: ConocoPhillips

Project Location: Chacon Hill #2

Date: 8/7/2012

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ 7'	8/7/2012	10:20	4,110	Not Analyzed for TPH				
SB-1 @ 10'	8/7/2012	10:34	1,411	Not Analyzed for TPH				
SB-1 @ 11'	8/7/2012	10:40	113	11:16	1,030	20.0	1	HMW
SB-1 @ 14'	8/7/2012	11:25	136	12:03	266	20.0	1	HMW
SB-1 @ 16'	8/7/2012	11:54	44.1	12:19	117	20.0	1	HMW
SB-2 @ 6'	8/7/2012	10:52	24.5	Not Analyzed for TPH				
SB-2 @ 8'	8/7/2012	11:04	349	Not Analyzed for TPH				
SB-2 @ 11'	8/7/2012	11:19	20.2	11:52	1,230	20.0	1	HMW
SB-2 @ 14'	8/7/2012	12:11	13.6	12:28	94.6	20.0	1	HMW
SB-3 @ 6'	8/7/2012	12:20	1.5	Not Analyzed for TPH				
SB-3 @ 10'	8/7/2012	12:33	3.9	Not Analyzed for TPH				
SB-3 @ 12'	8/7/2012	12:40	4.1	13:01	108	20.0	1	HMW
SB-4 @ 6'	8/7/2012	12:56	3.5	Not Analyzed for TPH				
SB-4 @ 8'	8/7/2012	13:08	3.2	Not Analyzed for TPH				
SB-4 @ 10'	8/7/2012	13:17	18.1	14:14	>2,500	20.0	1	HMW
SB-4 @ 12'	8/7/2012	13:24	6.0	13:46	118	20.0	1	HMW
SB-5 @ 6'	8/7/2012	13:35	6.0	Not Analyzed for TPH				
SB-5 @ 8'	8/7/2012	13:40	13.3	Not Analyzed for TPH				
SB-5 @ 12'	8/7/2012	13:51	11.5	14:31	127	20.0	1	HMW
SB-6 @ 4'	8/7/2012	14:27	747	Not Analyzed for TPH				
SB-6 @ 6'	8/7/2012	14:34	3,859	Not Analyzed for TPH				
SB-6 @ 8'	8/7/2012	14:47	556	Not Analyzed for TPH				

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-6 @ 10'	8/7/2012	14:55	247	Not Analyzed for TPH				
SB-6 @ 12'	8/7/2012	15:02	564	15:36	1,220	20.0	1	HMW
SB-7 @ 2'	8/7/2012	15:14	7.9	Not Analyzed for TPH				
SB-7 @ 4'	8/7/2012	15:19	10.8	Not Analyzed for TPH				
SB-7 @ 7'	8/7/2012	15:27	10.0	Not Analyzed for TPH				
SB-7 @ 10'	8/7/2012	15:38	6.0	15:53	98.5	20.0	1	HMW
SB-8 @ 3'	8/7/2012	15:36	5.7	Not Analyzed for TPH				
SB-8 @ 6'	8/7/2012	15:56	6.2	16:28	136	20.0	1	HMW
SB-9 @ 2'	8/7/2012	16:01	7.2	Not Analyzed for TPH				
SB-9 @ 4'	8/7/2012	16:06	8.3	Not Analyzed for TPH				
SB-10 @ 2'	8/7/2012	16:18	7.4	Not Analyzed for TPH				
SB-10 @ 4'	8/7/2012	16:23	8.9	Not Analyzed for TPH				
SB-10 @ 6'	8/7/2012	16:32	9.9	Not Analyzed for TPH				
SB-10 @ 8'	8/7/2012	16:37	8.2	Not Analyzed for TPH				
SB-10 @ 10'	8/7/2012	16:45	6.9	17:03	117	20.0	1	HMW
SB-10 @ 12'	8/7/2012	16:54	7.2	Not Analyzed for TPH				
SB-11 @ 2'	8/7/2012	17:00	2.5	Not Analyzed for TPH				
SB-11 @ 4'	8/7/2012	17:04	3.8	Not Analyzed for TPH				
SB-11 @ 6'	8/7/2012	17:10	5.3	Not Analyzed for TPH				
SB-11 @ 8'	8/7/2012	17:15	3.5	Not Analyzed for TPH				
SB-11 @ 10'	8/7/2012	17:21	5.2	Not Analyzed for TPH				
SB-11 @ 12'	8/7/2012	17:27	3.4	17:43	135	20.0	1	HMW

Total Petroleum Hydrocarbons - USEPA 418.1

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

Analyst:

Heather M. Woods

AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3274

Client: ConocoPhillips

Project Location: Chacon Hill #2

Date: 9/11/2012

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	9/11/2012	12:10	North Wall	22.4	13:03	242	20.0	1	HMW
SC-2	9/11/2012	12:13	Base	6.3	13:07	85.2	20.0	1	HMW
SC-3	9/11/2012	12:14	East Wall	1.9	13:10	65.5	20.0	1	HMW
SC-4	9/11/2012	12:16	West Wall	33.9	13:14	90.1	20.0	1	HMW
SC-5	9/11/2012	12:20	South Wall	5.8	13:18	618	20.0	1	HMW
SC-6	9/11/2012	13:30	North Wall	38.0	13:47	122	20.0	1	HMW
SC-7	9/11/2012	13:33	South Wall	30.0	13:43	158	20.0	1	HMW

Total Petroleum Hydrocarbons - USEPA 418.1

PQL Practical Quantitation Limit

ND Not Detected at the Reporting Limit

DF Dilution Factor

NA Not Analyzed

Analyst: *Heather M. Wood*



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

September 17, 2012

Debbie Watson

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-4071

FAX

RE: COP Chacon Hill #2

OrderNo.: 1209445

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/12/2012 for the analyses presented in the following report.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-7

Project: COP Chacon Hill #2

Collection Date: 9/11/2012 1:33:00 PM

Lab ID: 1209445-001

Matrix: MEOH (SOIL)

Received Date: 9/12/2012 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/12/2012 12:16:37 PM
Surr: DNOP	116	77.6-140		%REC	1	9/12/2012 12:16:37 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/12/2012 2:29:38 PM
Surr: BFB	109	84-116		%REC	1	9/12/2012 2:29:38 PM

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-6

Project: COP Chacon Hill #2

Collection Date: 9/11/2012 1:30:00 PM

Lab ID: 1209445-002

Matrix: MEOH (SOIL)

Received Date: 9/12/2012 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
						Analyst: JMP
EPA METHOD 8015B: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	25	9.8		mg/Kg	1	9/12/2012 12:38:26 PM
Surr: DNOP	120	77.6-140		%REC	1	9/12/2012 12:38:26 PM
						Analyst: NSB
EPA METHOD 8015B: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/12/2012 2:00:45 PM
Surr: BFB	119	84-116	S	%REC	1	9/12/2012 2:00:45 PM

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209445

17-Sep-12

Client: Animas Environmental Services
Project: COP Chacon Hill #2

Sample ID MB-3724	SampType: MBLK	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: PBS	Batch ID: 3724	RunNo: 5450								
Prep Date: 9/12/2012	Analysis Date: 9/12/2012	SeqNo: 156055							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	11		10.00		113	77.6	140			

Sample ID LCS-3724	SampType: LCS	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: LCSS	Batch ID: 3724	RunNo: 5450								
Prep Date: 9/12/2012	Analysis Date: 9/12/2012	SeqNo: 156114							Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	10	50.00	0	75.9	52.6	130			
Surr: DNOP	4.3		5.000		86.4	77.6	140			

Sample ID 1209366-002AMS	SampType: MS	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: BatchQC	Batch ID: 3724	RunNo: 5485								
Prep Date: 9/12/2012	Analysis Date: 9/13/2012	SeqNo: 156858							Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	9.8	48.97	0	75.0	57.2	146			
Surr: DNOP	4.7		4.897		95.9	77.6	140			

Sample ID 1209366-002AMSD	SampType: MSD	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: BatchQC	Batch ID: 3724	RunNo: 5485								
Prep Date: 9/12/2012	Analysis Date: 9/13/2012	SeqNo: 156967							Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	10	50.51	0	71.3	57.2	146	1.98	24.5	
Surr: DNOP	4.6		5.051		90.8	77.6	140	0	0	

Qualifiers:

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- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209445
17-Sep-12

Client: Animas Environmental Services
Project: COP Chacon Hill #2

Sample ID MB-3710	SampType: MBLK		TestCode: EPA Method 8015B: Gasoline Range							
Client ID: PBS	Batch ID: 3710		RunNo: 5469							
Prep Date: 9/11/2012	Analysis Date: 9/12/2012		SeqNo: 156930					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	980		1000		98.1	84	116			

Sample ID LCS-3710	SampType: LCS		TestCode: EPA Method 8015B: Gasoline Range							
Client ID: LCSS	Batch ID: 3710		RunNo: 5469							
Prep Date: 9/11/2012	Analysis Date: 9/12/2012		SeqNo: 156932					Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	74	117			
Surr: BFB	1000		1000		102	84	116			

Sample ID 1209344-001AMS	SampType: MS		TestCode: EPA Method 8015B: Gasoline Range							
Client ID: BatchQC	Batch ID: 3710		RunNo: 5469							
Prep Date: 9/11/2012	Analysis Date: 9/12/2012		SeqNo: 156934					Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	33	5.0	24.80	0	134	70	130			S
Surr: BFB	1100		992.1		107	84	116			

Sample ID 1209344-001AMSD	SampType: MSD		TestCode: EPA Method 8015B: Gasoline Range							
Client ID: BatchQC	Batch ID: 3710		RunNo: 5469							
Prep Date: 9/11/2012	Analysis Date: 9/12/2012		SeqNo: 156935					Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	33	5.0	24.80	0	132	70	130	1.29	22.1	S
Surr: BFB	1100		992.1		108	84	116	0	0	

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209445

17-Sep-12

Client: Animas Environmental Services
Project: COP Chacon Hill #2

Sample ID MB-3710	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 3710		RunNo: 5469							
Prep Date: 9/11/2012	Analysis Date: 9/12/2012		SeqNo: 156943				Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Sample ID LCS-3710	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 3710		RunNo: 5469							
Prep Date: 9/11/2012	Analysis Date: 9/12/2012		SeqNo: 156944				Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID 1209366-002AMS	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BatchQC	Batch ID: 3710		RunNo: 5469							
Prep Date: 9/11/2012	Analysis Date: 9/12/2012		SeqNo: 156948				Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		0.9766		105	80	120			

Sample ID 1209366-002AMSD	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BatchQC	Batch ID: 3710		RunNo: 5469							
Prep Date: 9/11/2012	Analysis Date: 9/12/2012		SeqNo: 156949				Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		0.9737		105	80	120	0	0	

Qualifiers:

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- ND Not Detected at the Reporting Limit
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Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87105
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **Anima Environmental**

Work Order Number: **1209445**

Received by/date:

[Signature]

09/12/12

Logged By: **Ashley Gallegos**

9/12/2012 10:05:00 AM

[Signature]

Completed By: **Ashley Gallegos**

9/12/2012 10:25:24 AM

[Signature]

Reviewed By:

[Signature]

09/12/12

Chain of Custody

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

Log In

- 4. Coolers are present? (see 19. for cooler specific information) Yes No NA
- 5. Was an attempt made to cool the samples? Yes No NA
- 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 7. Sample(s) in proper container(s)? Yes No
- 8. Sufficient sample volume for indicated test(s)? Yes No
- 9. Are samples (except VOA and ONG) properly preserved? Yes No
- 10. Was preservative added to bottles? Yes No NA
- 11. VOA vials have zero headspace? Yes No No VOA Vials
- 12. Were any sample containers received broken? Yes No
- 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No # of preserved bottles checked for pH:
- 14. Are matrices correctly identified on Chain of Custody? Yes No (<2 or >12 unless noted)
- 15. Is it clear what analyses were requested? Yes No Adjusted?
- 16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No Checked by:

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

18. Additional remarks:

19. Cooler Information

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

CHACON HILL 2

