

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

**RECEIVED**

By kcollins at 1:07 pm, Apr 11, 2016

15359 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: Burlington Resources Oil & Gas Company, LP OGRID #: 14538  
Address: PO BOX 4289, Farmington, NM 87499  
Facility or well name: PINON MESA A 100  
API Number: 30-045-32071 OCD Permit Number: \_\_\_\_\_  
U/L or Qtr/Qtr P (SESE) Section 36 Township 31N Range 14W County: San Juan  
Center of Proposed Design: Latitude 36.852141 °N Longitude -108.253528 °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.

**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



|   |  |
|---|--|
| <p>Within 100 feet of a wetland.</p> <ul style="list-style-type: none"> <li>- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <p><b><u>Temporary Pit Non-low chloride drilling fluid</u></b></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"> <li>- Topographic map; Visual inspection (certification) of the proposed site</li> </ul>  | <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"> <li>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>  | <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"> <li>- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <p>Within 300 feet of a wetland.</p> <ul style="list-style-type: none"> <li>- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <p><b><u>Permanent Pit or Multi-Well Fluid Management Pit</u></b></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"> <li>- Topographic map; Visual inspection (certification) of the proposed site</li> </ul>   | <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"> <li>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>   | <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"> <li>- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>  | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <p>Within 500 feet of a wetland.</p> <ul style="list-style-type: none"> <li>- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>   | <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 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.<br>- 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.<br>- 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.<br>- 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.<br>- 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.*

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

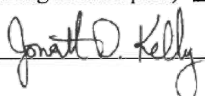
17.  
**Operator Application Certification:**  
 I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

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:  Approval Date: 7/12/2016

Title: Compliance Officer 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: 3/15/2016

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.*

|  |
|--|
| <input checked="" type="checkbox"/> Proof of Closure Notice (surface owner and division)           |
| <input type="checkbox"/> Proof of Deed Notice (required for on-site closure for private land only) |
| <input type="checkbox"/> Plot Plan (for on-site closures and temporary pits)                       |
| <input checked="" type="checkbox"/> Confirmation Sampling Analytical Results (if applicable)       |
| <input type="checkbox"/> Waste Material Sampling Analytical Results (required for on-site closure) |
| <input type="checkbox"/> Disposal Facility Name and Permit Number                                  |
| <input checked="" type="checkbox"/> Soil Backfilling and Cover Installation                        |
| <input checked="" type="checkbox"/> Re-vegetation Application Rates and Seeding Technique          |
| <input checked="" type="checkbox"/> Site Reclamation (Photo Documentation)                         |

On-site Closure Location: Latitude °N Longitude °W NAD: ☐ 1927 ☐ 1983

22.

**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: 4/1/16

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: Pinon Mesa A 100**  
**API No.: 30-045-32071**

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 not determined for the above referenced well.**

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 is attached.**

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 sent via email. (See Attached) (Well located on Federal Land, certified mail is not required for Federal Land per BLM/OCD MOU.)**

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 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.**

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 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)**

## Walker, Crystal

---

**From:** Walker, Crystal  
**Sent:** Tuesday, March 08, 2016 9:14 AM  
**To:** Cory Smith; Jonathan Kelly; Katherina Diemer (kdiemer@blm.gov); Flaniken, Jon (mflanike@blm.gov)  
**Cc:** Busse, Dollie L; Farrell, Larissa L; Roberts, Kelly G; Walker, Crystal; SJBU E-Team; Coats, Nathan W; Notor, Lori  
**Subject:** BGT Re-Sample Notification for sampling 3/14 & 3/15

Good morning,

The following locations contained below-grade tanks that require re-sampling, which is scheduled for Monday, March 14<sup>th</sup> and Tuesday, March 15<sup>th</sup> will begin at 9:00am at the first location and continue to the next.

| Sampling Order  | Name              | Sampling Date |
|---|-------------------|---------------|
| 1   | PHILLIPS COM 1E   | 3/14/2016     |
| 2   | PINON MESA A 100* | 3/14/2016     |
| 3   | MCCORD 104S       | 3/14/2016     |
| 4   | HUDSON 2          | 3/14/2016     |
| 5   | CORNELL 1R        | 3/14/2016     |
| 6   | MURPHY 1          | 3/15/2016     |
| 7   | GRENIER A 2R      | 3/15/2016     |
| 8   | HARE 15M          | 3/15/2016     |
| 9   | HARE 4            | 3/15/2016     |
| 10  | DELO 9            | 3/15/2016     |
| *indicates a long walk to location due to reclamation |                   |               |

Please feel free to contact me at any time if you have any questions or concerns regarding this information.

Thank you,

**Crystal Walker**  
Regulatory Coordinator  
ConocoPhillips Lower 48

T: 505-326-9837 | F: 505-599-4086 | M: 505-215-4361 | [crystal.walker@cop.com](mailto:crystal.walker@cop.com)

Visit the new Lower 48 website:  
[www.conocophillipsuslower48.com](http://www.conocophillipsuslower48.com)



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 Burlington Resources Oil & Gas Company | Contact Crystal Walker       |                      |
| Address 3401 East 30 <sup>th</sup> St, Farmington, NM  | Telephone No. (505) 326-9837 |                      |
| Facility Name: Pinon Mesa A 100                        | Facility Type: Gas Well      |                      |
| Surface Owner TRIBAL                                   | Mineral Owner TRIBAL         | API No. 30-045-32071 |

### LOCATION OF RELEASE

|                         |                      |                        |                     |                             |                                  |                             |                               |                           |
|-------------------------|----------------------|------------------------|---------------------|-----------------------------|----------------------------------|-----------------------------|-------------------------------|---------------------------|
| Unit Letter<br><b>P</b> | Section<br><b>36</b> | Township<br><b>31N</b> | Range<br><b>14W</b> | Feet from the<br><b>810</b> | North/South Line<br><b>South</b> | Feet from the<br><b>670</b> | East/West Line<br><b>East</b> | County<br><b>San Juan</b> |
|-------------------------|----------------------|------------------------|---------------------|-----------------------------|----------------------------------|-----------------------------|-------------------------------|---------------------------|

Latitude 36.852141 Longitude -108.253528

### NATURE OF RELEASE

|  |   |                                   |
|--|---|-----------------------------------|
| Type of Release  | Volume of Release                         | Volume Recovered                  |
| Source of Release  | Date and Hour of Occurrence               | Date and Hour of Discovery        |
| 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.*<br>N/A   |   |                                   |
| Describe Cause of Problem and Remedial Action Taken.*<br>No release was encountered during the BGT Closure.  |   |                                   |
| Describe Area Affected and Cleanup Action Taken.*<br>N/A   |   |                                   |
| 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:    | OIL CONSERVATION DIVISION                 |                                   |
| Printed Name: Crystal Walker   | Approved by Environmental Specialist:     |                                   |
| Title: Regulatory Coordinator  | Approval Date:                            | Expiration Date:                  |
| E-mail Address: crystal.walker@cop.com   | Conditions of Approval:                   | Attached <input type="checkbox"/> |
| Date: 4/1/16 Phone: (505) 326-9837   |   |                                   |

\* 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 23, 2016

Emilee Skyles

Animas Environmental

604 Pinon Street

Farmington, NM 87401

TEL: (505) 564-2281

FAX

RE: COPC PINON MESA A 100

OrderNo.: 1603708

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/15/2016 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 1603708

Date Reported: 3/23/2016

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Animas Environmental**Client Sample ID:** SB-1**Project:** COPC PINON MESA A 100**Collection Date:** 3/14/2016 11:40:00 AM**Lab ID:** 1603708-001**Matrix:** SOIL**Received Date:** 3/15/2016 8:00:00 AM

| Analyses                           | Result | PQL    | Qual | Units | DF | Date Analyzed         | Batch               |
|------------------------------------|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 418.1: TPH</b>       |        |        |      |       |    |                       | Analyst: <b>TOM</b> |
| Petroleum Hydrocarbons, TR         | ND     | 20     |      | mg/Kg | 1  | 3/18/2016             | 24299               |
| <b>EPA METHOD 300.0: ANIONS</b>    |        |        |      |       |    |                       | Analyst: <b>LGT</b> |
| Chloride                           | ND     | 30     |      | mg/Kg | 20 | 3/21/2016 11:18:33 PM | 24365               |
| <b>EPA METHOD 8021B: VOLATILES</b> |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| Benzene                            | ND     | 0.024  |      | mg/Kg | 1  | 3/16/2016 11:37:36 AM | 24254               |
| Toluene                            | ND     | 0.047  |      | mg/Kg | 1  | 3/16/2016 11:37:36 AM | 24254               |
| Ethylbenzene                       | ND     | 0.047  |      | mg/Kg | 1  | 3/16/2016 11:37:36 AM | 24254               |
| Xylenes, Total                     | ND     | 0.094  |      | mg/Kg | 1  | 3/16/2016 11:37:36 AM | 24254               |
| Surr: 4-Bromofluorobenzene         | 112    | 80-120 |      | %Rec  | 1  | 3/16/2016 11:37:36 AM | 24254               |

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           |
|                    | D  | Sample Diluted Due to Matrix                          | 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                   | P  | Sample pH Not In Range                                    |
|                    | R  | RPD outside accepted recovery limits                  | RL | Reporting Detection Limit                                 |
|                    | S  | % Recovery outside of range due to dilution or matrix | W  | Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603708

23-Mar-16

Client: Animas Environmental  
Project: COPC PINON MESA A 100

|            |           |                |           |             |                          |          |           |      |          |      |
|------------|-----------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID  | MB-24365  | SampType:      | MBLK      | TestCode:   | EPA Method 300.0: Anions |          |           |      |          |      |
| Client ID: | PBS       | Batch ID:      | 24365     | RunNo:      | 32963                    |          |           |      |          |      |
| Prep Date: | 3/21/2016 | Analysis Date: | 3/21/2016 | SeqNo:      | 1011048                  | Units:   | mg/Kg     |      |          |      |
| Analyte    | Result    | PQL            | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride   | ND        | 1.5            |           |             |                          |          |           |      |          |      |

|            |           |                |           |             |                          |          |           |      |          |      |
|------------|-----------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID  | LCS-24365 | SampType:      | LCS       | TestCode:   | EPA Method 300.0: Anions |          |           |      |          |      |
| Client ID: | LCSS      | Batch ID:      | 24365     | RunNo:      | 32963                    |          |           |      |          |      |
| Prep Date: | 3/21/2016 | Analysis Date: | 3/21/2016 | SeqNo:      | 1011049                  | Units:   | mg/Kg     |      |          |      |
| Analyte    | Result    | PQL            | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride   | 14        | 1.5            | 15.00     | 0           | 94.5                     | 90       | 110       |      |          |      |

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | 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                  | P Sample pH Not In Range                                    |
| R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1603708

23-Mar-16

**Client:** Animas Environmental  
**Project:** COPC PINON MESA A 100

|                            |           |                |           |             |                       |          |           |      |          |      |
|----------------------------|-----------|----------------|-----------|-------------|-----------------------|----------|-----------|------|----------|------|
| Sample ID                  | MB-24299  | SampType:      | MBLK      | TestCode:   | EPA Method 418.1: TPH |          |           |      |          |      |
| Client ID:                 | PBS       | Batch ID:      | 24299     | RunNo:      | 32887                 |          |           |      |          |      |
| Prep Date:                 | 3/17/2016 | Analysis Date: | 3/18/2016 | SeqNo:      | 1008187               | Units:   | mg/Kg     |      |          |      |
| Analyte                    | Result    | PQL            | SPK value | SPK Ref Val | %REC                  | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | ND        | 20             |           |             |                       |          |           |      |          |      |

|                            |           |                |           |             |                       |          |           |      |          |      |
|----------------------------|-----------|----------------|-----------|-------------|-----------------------|----------|-----------|------|----------|------|
| Sample ID                  | LCS-24299 | SampType:      | LCS       | TestCode:   | EPA Method 418.1: TPH |          |           |      |          |      |
| Client ID:                 | LCSS      | Batch ID:      | 24299     | RunNo:      | 32887                 |          |           |      |          |      |
| Prep Date:                 | 3/17/2016 | Analysis Date: | 3/18/2016 | SeqNo:      | 1008188               | Units:   | mg/Kg     |      |          |      |
| Analyte                    | Result    | PQL            | SPK value | SPK Ref Val | %REC                  | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 97        | 20             | 100.0     | 0           | 96.8                  | 83.4     | 127       |      |          |      |

|                            |            |                |           |             |                       |          |           |      |          |      |
|----------------------------|------------|----------------|-----------|-------------|-----------------------|----------|-----------|------|----------|------|
| Sample ID                  | LCSD-24299 | SampType:      | LCSD      | TestCode:   | EPA Method 418.1: TPH |          |           |      |          |      |
| Client ID:                 | LCSS02     | Batch ID:      | 24299     | RunNo:      | 32887                 |          |           |      |          |      |
| Prep Date:                 | 3/17/2016  | Analysis Date: | 3/18/2016 | SeqNo:      | 1008189               | Units:   | mg/Kg     |      |          |      |
| Analyte                    | Result     | PQL            | SPK value | SPK Ref Val | %REC                  | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Petroleum Hydrocarbons, TR | 100        | 20             | 100.0     | 0           | 101                   | 83.4     | 127       | 4.29 | 20       |      |

### Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1603708

23-Mar-16

**Client:** Animas Environmental  
**Project:** COPC PINON MESA A 100

|                             |                                 |  |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Sample ID <b>MB-24254</b>   | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
| Client ID: <b>PBS</b>       | Batch ID: <b>24254</b>          | RunNo: <b>32841</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>3/15/2016</b> | Analysis Date: <b>3/16/2016</b> | SeqNo: <b>1006591</b> Units: <b>mg/Kg</b>    |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL  | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND                              | 0.025  |           |             |      |          |           |      |          |      |
| Toluene                     | ND                              | 0.050  |           |             |      |          |           |      |          |      |
| Ethylbenzene                | ND                              | 0.050  |           |             |      |          |           |      |          |      |
| Xylenes, Total              | ND                              | 0.10   |           |             |      |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene  | 1.1                             |  | 1.000     |             | 110  | 80       | 120       |      |          |      |

|                             |                                 |  |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Sample ID <b>LCS-24254</b>  | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>24254</b>          | RunNo: <b>32841</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>3/15/2016</b> | Analysis Date: <b>3/16/2016</b> | SeqNo: <b>1006592</b> Units: <b>mg/Kg</b>    |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL  | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 1.1                             | 0.025  | 1.000     | 0           | 107  | 80       | 120       |      |          |      |
| Toluene                     | 1.0                             | 0.050  | 1.000     | 0           | 101  | 80       | 120       |      |          |      |
| Ethylbenzene                | 1.0                             | 0.050  | 1.000     | 0           | 102  | 80       | 120       |      |          |      |
| Xylenes, Total              | 3.1                             | 0.10   | 3.000     | 0           | 102  | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 1.2                             |  | 1.000     |             | 116  | 80       | 120       |      |          |      |

|                                 |                                 |  |           |             |      |          |           |      |          |      |
|---------------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|------|----------|------|
| Sample ID <b>1603706-001AMS</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
| Client ID: <b>BatchQC</b>       | Batch ID: <b>24254</b>          | RunNo: <b>32841</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>3/15/2016</b>     | Analysis Date: <b>3/16/2016</b> | SeqNo: <b>1006594</b> Units: <b>mg/Kg</b>    |           |             |      |          |           |      |          |      |
| Analyte                         | Result                          | PQL  | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                         | 0.97                            | 0.024  | 0.9551    | 0           | 101  | 71.5     | 122       |      |          |      |
| Toluene                         | 0.96                            | 0.048  | 0.9551    | 0           | 101  | 71.2     | 123       |      |          |      |
| Ethylbenzene                    | 1.0                             | 0.048  | 0.9551    | 0           | 107  | 75.2     | 130       |      |          |      |
| Xylenes, Total                  | 3.1                             | 0.096  | 2.865     | 0           | 109  | 72.4     | 131       |      |          |      |
| Surr: 4-Bromofluorobenzene      | 1.1                             |  | 0.9551    |             | 117  | 80       | 120       |      |          |      |

|                                  |                                 |  |           |             |      |          |           |       |          |      |
|----------------------------------|---------------------------------|--|-----------|-------------|------|----------|-----------|-------|----------|------|
| Sample ID <b>1603706-001AMSD</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |       |          |      |
| Client ID: <b>BatchQC</b>        | Batch ID: <b>24254</b>          | RunNo: <b>32841</b>                          |           |             |      |          |           |       |          |      |
| Prep Date: <b>3/15/2016</b>      | Analysis Date: <b>3/16/2016</b> | SeqNo: <b>1006595</b> Units: <b>mg/Kg</b>    |           |             |      |          |           |       |          |      |
| Analyte                          | Result                          | PQL  | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Benzene                          | 1.0                             | 0.024  | 0.9785    | 0           | 104  | 71.5     | 122       | 5.32  | 20       |      |
| Toluene                          | 0.98                            | 0.049  | 0.9785    | 0           | 100  | 71.2     | 123       | 2.16  | 20       |      |
| Ethylbenzene                     | 1.0                             | 0.049  | 0.9785    | 0           | 104  | 75.2     | 130       | 0.738 | 20       |      |
| Xylenes, Total                   | 3.1                             | 0.098  | 2.935     | 0           | 104  | 72.4     | 131       | 2.15  | 20       |      |
| Surr: 4-Bromofluorobenzene       | 1.2                             |  | 0.9785    |             | 120  | 80       | 120       | 0     | 0        | S    |

### Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | 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                  | P Sample pH Not In Range                                    |
| R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



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: 1603708

ReptNo: 1

Received by/date:

Logged By: Lindsay Margin

3/15/2016 8:00:00 AM

Completed By: Lindsay Margin

3/15/2016 8:53:17 AM

Reviewed By: AG

03/15/16

### 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         | 2.9                     | Good      | Yes         |         |           |           |





## Walker, Crystal

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**From:** Walker, Crystal  
**Sent:** Tuesday, March 08, 2016 9:14 AM  
**To:** Cory Smith; Jonathan Kelly; Katherina Diemer (kdiemer@blm.gov); Flaniken, Jon (mflanike@blm.gov)  
**Cc:** Busse, Dollie L; Farrell, Larissa L; Roberts, Kelly G; Walker, Crystal; SJBU E-Team; Coats, Nathan W; Notor, Lori  
**Subject:** BGT Re-Sample Notification for sampling 3/14 & 3/15

Good morning,

The following locations contained below-grade tanks that require re-sampling, which is scheduled for Monday, March 14<sup>th</sup> and Tuesday, March 15<sup>th</sup> will begin at 9:00am at the first location and continue to the next.

| Sampling Order  | Name              | Sampling Date |
|---|-------------------|---------------|
| 1   | PHILLIPS COM 1E   | 3/14/2016     |
| 2   | PINON MESA A 100* | 3/14/2016     |
| 3   | MCCORD 104S       | 3/14/2016     |
| 4   | HUDSON 2          | 3/14/2016     |
| 5   | CORNELL 1R        | 3/14/2016     |
| 6   | MURPHY 1          | 3/15/2016     |
| 7   | GRENIER A 2R      | 3/15/2016     |
| 8   | HARE 15M          | 3/15/2016     |
| 9   | HARE 4            | 3/15/2016     |
| 10  | DELO 9            | 3/15/2016     |
| *indicates a long walk to location due to reclamation |                   |               |

Please feel free to contact me at any time if you have any questions or concerns regarding this information.

Thank you,

**Crystal Walker**  
Regulatory Coordinator  
ConocoPhillips Lower 48

T: 505-326-9837 | F: 505-599-4086 | M: 505-215-4361 | [crystal.walker@cop.com](mailto:crystal.walker@cop.com)

Visit the new Lower 48 website:  
[www.conocophillipsuslower48.com](http://www.conocophillipsuslower48.com)



