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.

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Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

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: JOHNSTON A 15
API Number: 30-039-20538 OCD Permit Number: _____
U/L or Qtr/Qtr I Section 36 Township 26N Range 6W County: Rio Arriba
Center of Proposed Design: Latitude 36.439970 °N Longitude -107.41253 °W NAD: ☐1927 ☒ 1983
Surface Owner: ☐ Federal ☒ State ☐ Private ☐ Tribal Trust or Indian Allotment

OIL CONS. DIV DIST. 3
DEC 01 2016

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_____

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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. ☐ Yes ☐ No ☒ NA
- ☐ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☐ Data obtained from nearby wells

Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit . ☐ Yes ☐ No ☒ NA
NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

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)** ☐ Yes ☐ No
- Written confirmation or verification from the municipality; Written approval obtained from the municipality

Within the area overlying a subsurface mine. **(Does not apply to below grade tanks)** ☐ Yes ☐ No
- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

Within an unstable area. **(Does not apply to below grade tanks)** ☐ Yes ☐ No
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

Within a 100-year floodplain. **(Does not apply to below grade tanks)** ☐ Yes ☐ No
- FEMA map

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). ☐ Yes ☒ No
- Topographic map; Visual inspection (certification) of the proposed site

Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. ☐ Yes ☒ No
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

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.) ☐ Yes ☐ No
- Topographic map; Visual inspection (certification) of the proposed site

Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. ☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

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. ☐ Yes ☐ No
NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

10.

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

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

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

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

11.

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

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

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

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

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

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

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Quality Control/Quality Assurance Construction and Installation Plan
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Nuisance or Hazardous Odors, including H_2S, 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	☐ Yes ☐ No ☐ 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	☐ Yes ☐ No ☐ 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	☐ Yes ☐ No ☐ 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	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 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	☐ Yes ☐ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain. - FEMA map	☐ Yes ☐ No

16.
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

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

17.
Operator Application Certification:

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

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

18.
OCD Approval: ☐ Permit Application (including closure plan) ☒ Closure Plan ~~(only)~~ ☐ OCD Conditions (see attachment)

OCD Representative Signature: Vanessa [illegible] **Approval Date:** 12/27/2016

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: 9/12/2016**

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.***

- ☒ 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

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: Crystal Walker Date: 12/1/16

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: Johnston A 15
API No.: 30-039-20538

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.

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:
   i. Operator's name
   ii. 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 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)**

Walker, Crystal

From: Walker, Crystal
Sent: Tuesday, March 15, 2016 2:36 PM
To: Cory Smith; Fields, Vanessa, EMNRD; Flaniken, Mike (Mike_Flaniken@blm.gov); Katherina Diemer (kdiemer@blm.gov)
Cc: Farrell, Juanita R; GRP:SJBU Regulatory; Jones, Lisa; SJBU E-Team; 'eskyles@animasenvironmental.com'
Subject: UPDATED: BGT Re-Sample Notification for sampling 3/18

Good afternoon,

The following locations contained below-grade tanks that require re-sampling, which is scheduled for **Friday, March 18th** to begin at 9:00am at the first location and continue to the next. *ADDED WELLS

Sampling Order	Name	BGT Latitude	BGT Longitude	Surface Owner
1	Canyon Largo Unit 430	36.397214	-107.547679	FEDERAL
2	Canyon Largo Unit 65	36.432545	-107.450724	FEDERAL
3	Canyon Largo Unit Com 138	36.426228	-107.469793	PRIVATE
4	Sanchez A 3	36.467931	-107.488061	FEDERAL
5	Johnston A 15	36.439970	-107.412488	STATE

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*

Visit the new Lower 48 website:
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 Co.	Contact **Bobby Spearman**
Address 3401 East 30th St, Farmington, NM	Telephone No.(505)-320-3045
Facility Name: Johnston A 15	Facility Type: Gas well

Surface Owner: State	Mineral Owner: Fed	API No. 3003920538

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	**36**	**26N**	**6W**	**1460**	**South**	**800**	**East**	**Rio Arriba**

Latitude 36.439970__Longitude -107.41253

NATURE OF RELEASE

Type of Release **Hydrocarbon**	Volume of Release **Unknown**	Volume Recovered **None**
Source of Release **BGT**	Date and Hour of Occurrence **Unknown**	Date and Hour of Discovery **Unknown**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Historic contamination was encountered after a soil sample was taken on 3-18-16

Describe Area Affected and Cleanup Action Taken.
Historical hydrocarbon impacted soil was found during the BGT closure for the subject well.
September 12 , 2016 Excavation was 11' x 11 ' x 5.5 in depth and 25 yds of soil was transported to Envirotech land farm and 25 yds of clean soil was transported and placed in the excavation site. Analytical results were below the regulatory standards – no further action required. The soil sampling report is attached for review.

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

Signature:	OIL CONSERVATION DIVISION	
Printed Name: **Bobby Spearman**	Approved by Environmental Specialist:	
Title: **Field Environmental Specialist**	Approval Date:	Expiration Date:
E-mail Address: **Robert.E.Spearman**@conocophillips.com	Conditions of Approval:	Attached ☐
Date: 11-22-16 Phone: (505) 320-3045		

* Attach Additional Sheets If Necessary

November 14, 2016

Lisa Hunter and Robert Spearman
ConocoPhillips
San Juan Business Unit
(505) 326-9786, (505) 320-3045

Via electronic mail to:
SJBUE-Team@ConocoPhillips.com

RE: Below Grade Tank Closure, Release Assessment, and Final Excavation Report
Johnston A 15
Rio Arriba County, New Mexico

Dear Ms. Hunter and Mr. Spearman:

On March 18, April 19 and September 12, 2016, Animas Environmental Services, LLC (AES) completed below grade tank (BGT) closure sampling, a release assessment, and environmental clearance of the final excavation limits at the ConocoPhillips (COPC) Johnston A 15 located in Rio Arriba County, New Mexico. At the request of the New Mexico Oil Conservation Division (NMOCD), resampling of the location below the former BGT was required to meet all required closure criteria listed in New Mexico Administrative Code (NMAC) 19.15.17.13E. The historic release at the BGT consisted of an unknown quantity of produced water and hydrocarbons. After obtaining the results of the March 2016 sampling event, an initial release assessment was completed on April 19, 2016. The final excavation was completed by COPC contractors while AES was on location on September 19, 2016.

1.0 Site Information

1.1 Location

Site Name – Johnston A 15
Location – NE¼ SE¼, Section 36, T26N, R6W, Rio Arriba County, New Mexico
Well Head Latitude/Longitude – N36.44002, W107.41254
BGT/Release Latitude/Longitude – N36.43997, W107.41248
Land Jurisdiction – Bureau of Land Management
Figure 1. Topographic Site Location Map

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

1911 Main, Ste 206
Durango, CO 81301
970-403-3084

www.animasenvironmental.com

Figure 2. Aerial Site Map, April 2016

1.2 NMOCD Ranking

In accordance with NMOCD release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to site work. The release was given a ranking score of 30 based on the following factors:

- **Depth to Groundwater:** Based on elevation, topographic interpretation and visual reconnaissance, depth to groundwater is interpreted to be less than 50 feet below ground surface (bgs). (20 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body**: Tapicito Creek is approximately 500 feet northwest of the site. (10 points)

1.3 Assessment

AES was initially contacted by Robert Spearman, COPC representative, on March 1, 2016. At the request of the NMOCD, resampling of the location below the former BGT was required to meet all required closure criteria listed in NMAC 19.15.17.13E. On March 18, 2016, Corwin Lameman and Delilah Dougi of AES traveled to the location. Soil sampling consisted of collection of one discrete soil sample from below the former BGT. The sample location is presented on Figure 2.

On April 19, 2016, AES personnel completed the release assessment field work. The assessment included collection and field sampling of 20 soil samples from 4 soil borings (SB-1 through SB-4). Based on field sampling results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On September 12, 2016, AES returned to the location to collect confirmation soil samples of the excavation. The field sampling activities included collection of five confirmation soil samples (SC-1 through SC-5) of the walls and base of the excavation. The area of the final excavation measured approximately 11 feet by 11 feet by 5.5 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 21 soil samples (S-1 and SB-1 through SB-4) and 5 composite samples (SC-1 through SC-5) were collected during the assessments. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were analyzed for total petroleum hydrocarbon (TPH). One discrete sample (S-1) and all composite

samples (SC-1 through SC-5) collected were submitted for confirmation laboratory analysis.

2.1 Field Sampling

2.1.1 Volatile Organic Compounds

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

2.1.2 Total Petroleum Hydrocarbons

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

2.2 Laboratory Analyses

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

S-1 was laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B;
- TPH per USEPA Method 418.1; and
- Chlorides per USEPA Method 300.0.

SC-1 through SC-5 were laboratory analyzed for:

- BTEX per USEPA Method 8021B; and
- TPH as Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) and per USEPA Method 8015.

2.3 Field and Laboratory Analytical Results

On April 19, 2016, initial assessment field screening readings for VOCs via OVM were all measured at 0.0 ppm in SB-1 through SB-4. Field TPH concentrations ranged from less than 20.0 mg/kg in SB-1 through SB-4 to 26.8 mg/kg in SB-1.

On September 12, 2016, final excavation field screening results for VOCs via OVM ranged from 0.0 ppm in SC-1, SC-2 and SC-4, up to 10.4 ppm in SC-5. Field TPH concentrations ranged from 23.5 mg/kg in SC-3 up to 79.9 mg/kg in SC-2. Field screening VOC and TPH results are summarized in Table 1 and on Figure 3 and 4. The AES field sampling reports are attached.

Table 1. Soil Field VOCs, TPH, and Chloride Results
Johnston A 15 BGT Closure, Release Assessment and Final Excavation
March, April, and September 2016

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	Field TPH (mg/kg)
*NMOCD Action Level**			*NE/100*	*100/100*
S-1	3/18/16	4.5	NA	NA
SB-1	4/19/16	2	0.0	NA
		4	0.0	26.8
		6	0.0	<20.0
		8	0.0	25.2
		10	0.0	<20.0
		12	0.0	<20.0
SB-2	4/19/16	4	0.0	NA
		6	0.0	20.4
		8	0.0	NA
		10	0.0	NA
		12	0.0	<20.0
SB-3	4/19/16	4	0.0	NA
		8	0.0	<20.0
		10	0.0	NA
		12	0.0	<20.0
SB-4	4/19/16	4	0.0	NA
		6	0.0	<20.0
		8	0.0	NA
		10	0.0	NA
		12	0.0	<20.0
SC-1	9/12/16	0 to 5.5	0.0	31.3

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	Field TPH (mg/kg)
*NMOCD Action Level**			*NE/100*	*100/100*
SC-2	9/12/16	0 to 5.5	0.0	79.9
SC-3	9/12/16	0 to 5.5	0.1	23.5
SC-4	9/12/16	0 to 5.5	0.0	25.0
SC-5	9/12/16	5.5	10.4	78.4

NA – not analyzed
NE – not established
*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) and *NMAC 19.15.17.13E.*

Laboratory analysis of sample S-1 was used to determine the BTEX, TPH, and chloride concentrations for BGT closure sampling results. Total BTEX concentrations were reported at 477 mg/kg; TPH concentrations were 11,000 mg/kg; and the chloride concentration was less than 30 mg/kg.

Laboratory analyses for SC-1 through SC-5 were used to confirm field sampling results from the final excavation extents. Benzene, total BTEX and TPH-GRO concentrations were reported below laboratory detection limits in all samples (SC-1 through SC-5). Total TPH concentrations (as DRO and MRO) ranged from below the laboratory detection limit in SC-1 and SC-3 up to 224 mg/kg in SC-2. Results are summarized in Table 2 and included on Figure 4. Laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results
Benzene, Total BTEX, Total TPH (418.1), TPH (8015), and Chlorides
Johnston A 15 BGT Closure, Release Assessment, and Final Excavation
March and September 2016

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	Total TPH (418.1) (mg/kg)	TPH GRO (8015) (mg/kg)	TPH DRO (8015) (mg/kg)	TPH MRO (8015) (mg/kg)	Chlorides (mg/kg)
*NMOCD Action Level**			*0.2/10**	*50*	*100/100**		*100/100**		*250/NE**
S-1	3/18/16	4.5	<2.4	**477**	**11,000**	NA	NA	NA	<30
SC-1	9/12/16	0 to 5.5	<0.024	<0.215	NA	<4.8	<10	<50	NA
SC-2	9/12/16	0 to 5.5	<0.023	<0.207	NA	<4.6	**170**	**54**	NA
SC-3	9/12/16	0 to 5.5	<0.023	<0.211	NA	<4.7	<9.6	<48	NA
SC-4	9/12/16	0 to 5.5	<0.024	<0.216	NA	<4.8	68	<48	NA

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	Total TPH (418.1) (mg/kg)	TPH GRO (8015) (mg/kg)	TPH DRO (8015) (mg/kg)	TPH MRO (8015) (mg/kg)	Chlorides (mg/kg)
*NMOCD Action Level**			*0.2/10**	*50*	*100/100**		*100/100**		*250/NE**
SC-5	9/12/16	0 to 5.5	<0.024	<0.219	NA	<4.9	25	<50	NA

NA – not analyzed
NE – not established
*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) and *NMAC 19.15.17.13E.*

3.0 Conclusions and Recommendations

3.1 BGT Closure

On March 18, 2016, AES conducted a BGT closure and assessment of petroleum contaminated soils associated at the Johnston A 15. NMOCD action levels for BGT closures are specified in NMAC 19.15.17.13E. BGT closure sampling results for total BTEX and total TPH in March 2016 were above the NMOCD action levels, with S-1 at 477 mg/kg total BTEX and 11,000 mg/kg TPH. Laboratory results for chloride concentrations in S-1 were reported below the NMOCD action level of 250 mg/kg. Based on laboratory concentrations of total BTEX and total TPH, a release was confirmed at the Johnston A 15 location.

3.2 Release Confirmation

Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 30. In April 2016, release assessment field sampling results were all below the NMOCD action level of 100 ppm VOCs and 100 mg/kg TPH in SB-1 through SB-5. However, excavation of the release source area identified during the BGT assessment in March 2016 was recommended.

On September 12, 2016, final clearance of the excavation area was completed and measured approximately 11 feet by 11 feet by 5.5 feet in depth. Field sampling results of the excavation extents showed that VOC and field TPH concentrations were all below applicable NMOCD action levels for all four final walls and base of the excavation. Laboratory analytical results reported benzene, total BTEX and GRO concentrations in SC-1 through SC-5 as below NMOCD action levels. TPH concentrations as DRO and MRO were also reported below the applicable NMOCD action levels in all samples, except for SC-2, which had reported concentrations of 170 mg/kg DRO and 54 mg/kg MRO.

Based on the final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the Johnston A 15, VOCs, benzene, total BTEX, and TPH-GRO concentrations were below the applicable NMOCD action levels for the final sidewalls and base of the excavation, except for SC-2. However, since the residual concentrations in SC-2 are comprised of DRO and MRO components, which are less mobile in the subsurface, and the benzene, total BTEX, and TPH-GRO concentrations in SC-2 were all below laboratory detection limits, no further work is recommended.

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

Sincerely,

David Reese
Environmental Scientist

Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, BGT Assessment March 2016
Figure 3. Release Assessment Sample Locations and Results, April 2016
Figure 4. Final Excavation Sample Locations and Results, September 2016
AES Field Sampling Report 041916
AES Field Sampling Report 091216
Hall Laboratory Analytical Report 1603A09
Hall Laboratory Analytical Report 1609689

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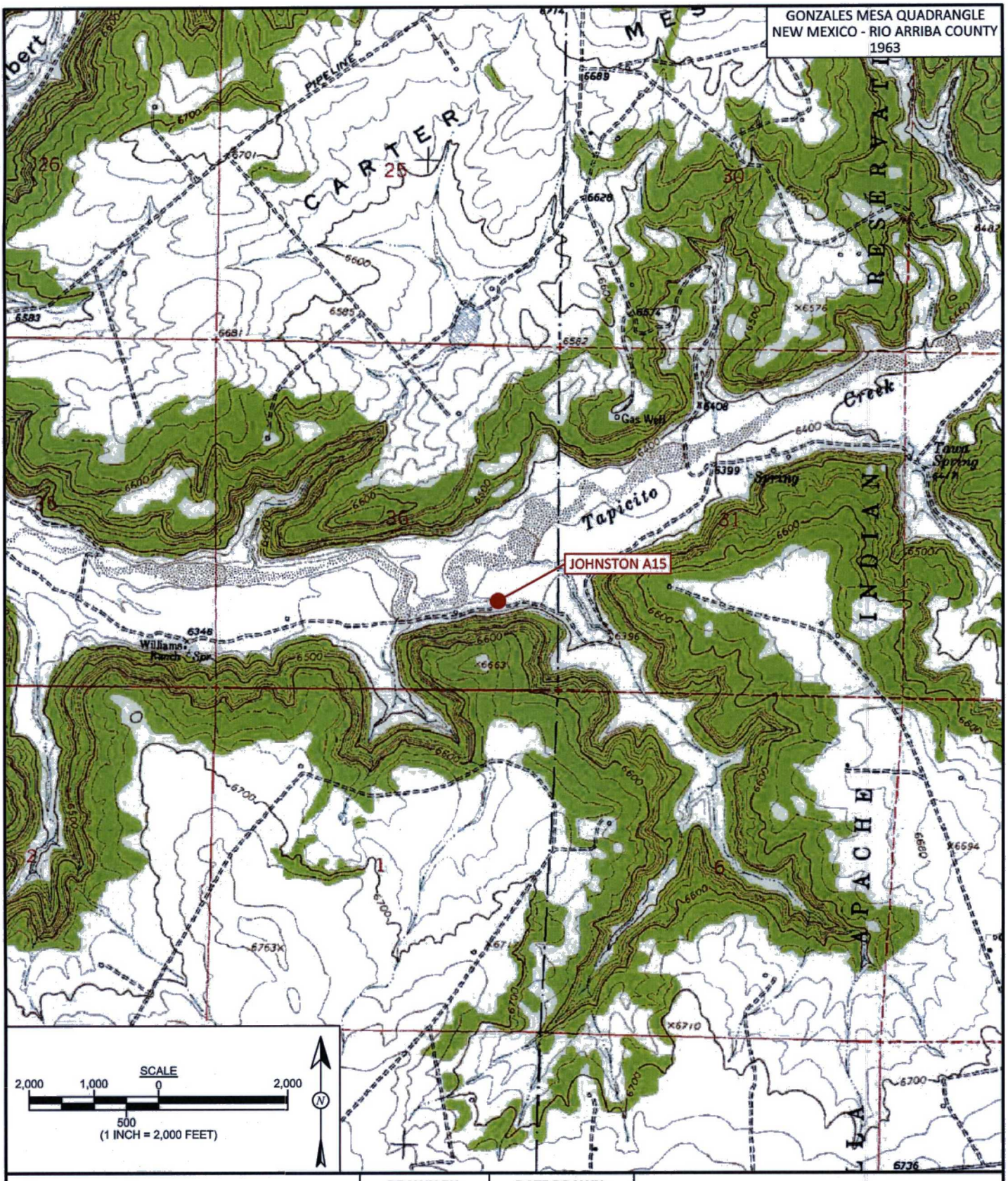

DRAWN BY: C. Lameman	**DATE DRAWN:** April 28, 2016	**FIGURE 1**
REVISIONS BY: C. Lameman	**DATE REVISED:** April 28, 2016	**TOPOGRAPHIC SITE LOCATION MAP**
CHECKED BY: E. Skyles	**DATE CHECKED:** April 28, 2016	ConocoPhillips JOHNSTON A15 NE¼ SE¼, SECTION 36, T26N, R6W RIO ARRIBA COUNTY, NEW MEXICO N36.44002, W107.41254
APPROVED BY: E. McNally	**DATE APPROVED:** April 28, 2016	

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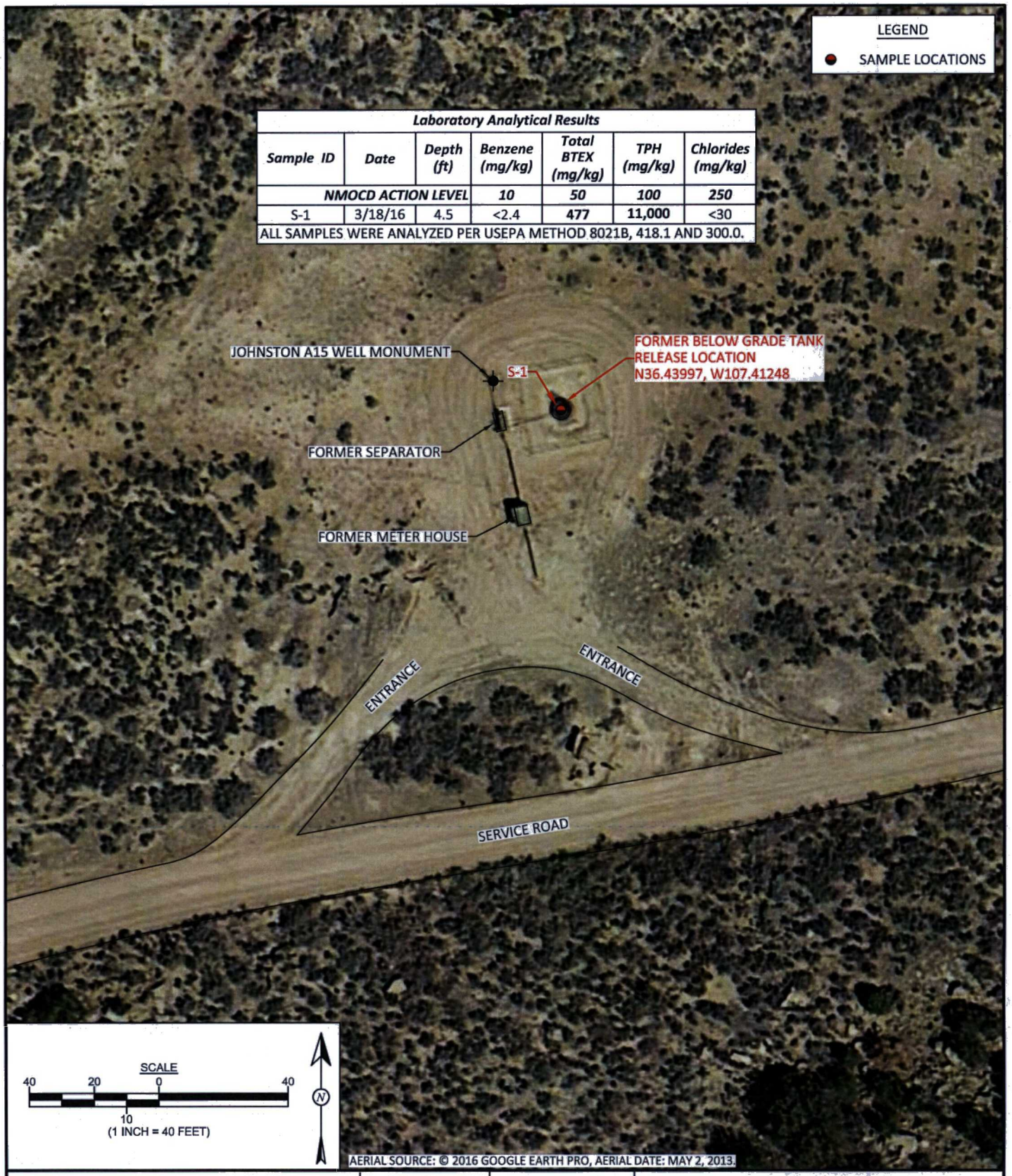

Laboratory Analytical Results

Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL			10	50	100	250
S-1	3/18/16	4.5	<2.4	477	11,000	<30

ALL SAMPLES WERE ANALYZED PER USEPA METHOD 8021B, 418.1 AND 300.0.

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DRAWN BY: C. Lameman	DATE DRAWN: April 28, 2016
REVISIONS BY: S. Glasses	DATE REVISED: November 21, 2016
CHECKED BY: E. McNally	DATE CHECKED: November 21, 2016
APPROVED BY: E. McNally	DATE APPROVED: November 21, 2016

FIGURE 2

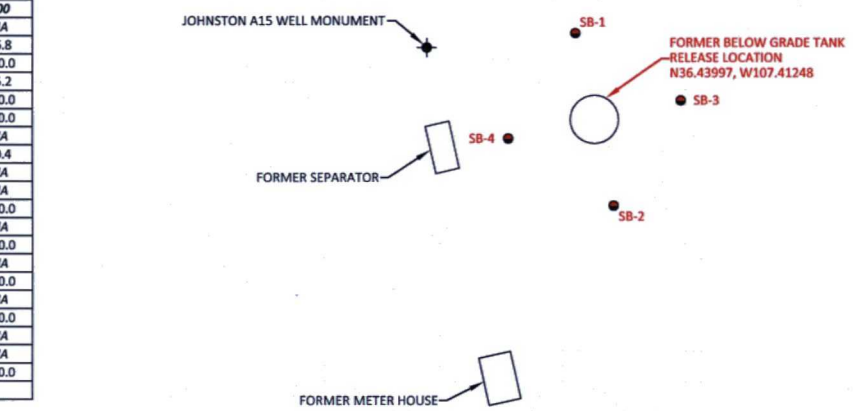
AERIAL SITE MAP
BGT ASSESSMENT MARCH 2016
ConocoPhillips
JOHNSTON A15
NE¼ SE¼, SECTION 36, T26N, R6W
RIO ARRIBA COUNTY, NEW MEXICO
N36.44002, W107.41254

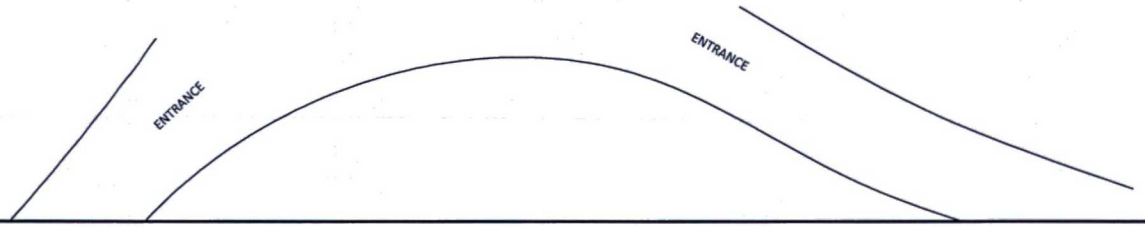
FIGURE 3

RELEASE ASSESSMENT
SAMPLE LOCATIONS AND RESULTS
APRIL 2016
ConocoPhillips
JOHNSTON A15
NE¼ SE¼, SECTION 36, T26N, R6W
RIO ARRIBA COUNTY, NEW MEXICO
N36.44002, W107.41254

Field Sampling Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	100
SB-1	4/19/16	2.0	0.0	NA
		4.0	0.0	26.8
		6.0	0.0	<20.0
		8.0	0.0	25.2
		10.0	0.0	<20.0
		12.0	0.0	<20.0
SB-2	4/19/16	4.0	0.0	NA
		6.0	0.0	20.4
		8.0	0.0	NA
		10.0	0.0	NA
		12.0	0.0	<20.0
SB-3	4/19/16	4.0	0.0	NA
		8.0	0.0	<20.0
		10.0	0.0	NA
		12.0	0.0	<20.0
SB-4	4/19/16	4.0	0.0	NA
		6.0	0.0	<20.0
		8.0	0.0	NA
		10.0	0.0	NA
		12.0	0.0	<20.0

NA - NOT ANALYZED





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DRAWN BY:	DATE DRAWN:
C. Lameman	April 20, 2016
REVISIONS BY:	**DATE REVISED:**
S. Glasses	November 21, 2016
CHECKED BY:	**DATE CHECKED:**
E. McNally	November 21, 2016
APPROVED BY:	**DATE APPROVED:**
E. McNally	November 21, 2016

LEGEND

● SOIL BORING LOCATIONS

N

SCALE
15 10 5 0 15
(1 INCH = 15 FEET)

FIGURE 4

FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS
SEPTEMBER 2016
ConocoPhillips
JOHNSTON A15
NE¼ SE¼, SECTION 36, T26N, R6W
RIO ARRIBA COUNTY, NEW MEXICO
N36.44002, W107.41254

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animasenvironmental.com

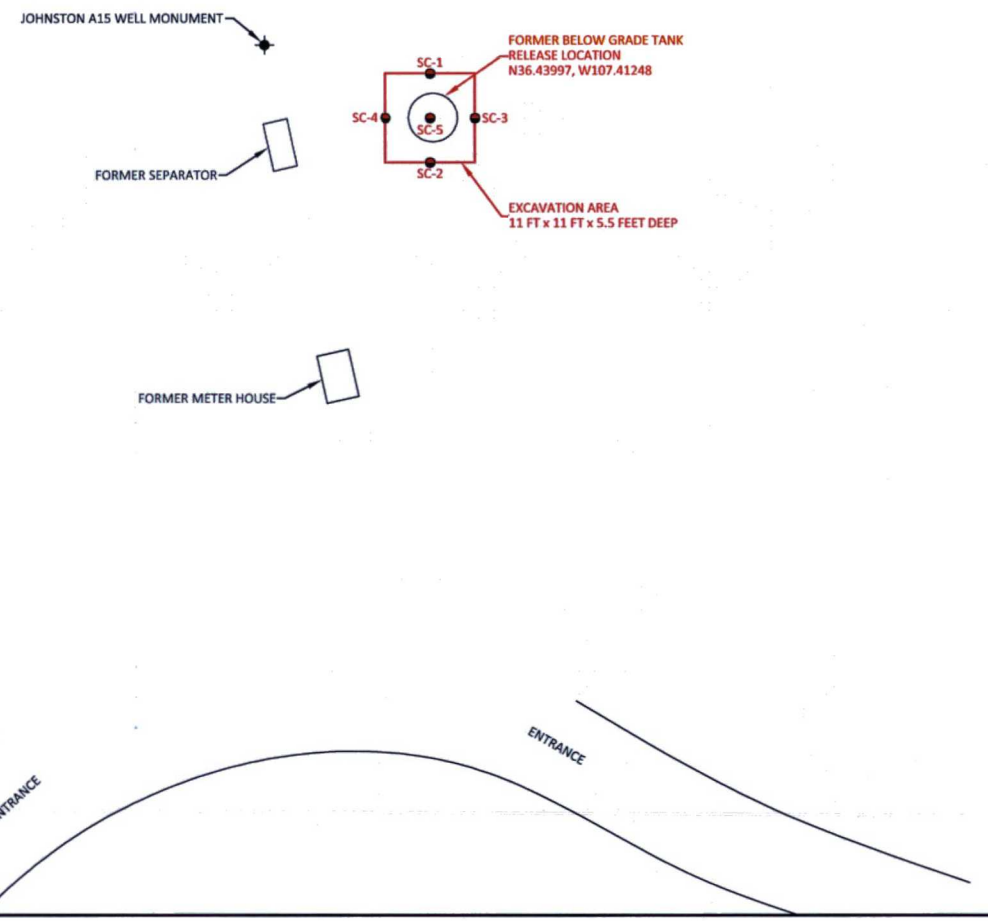
DRAWN BY:	DATE DRAWN:
C. Lameman	April 20, 2016
REVISIONS BY:	**DATE REVISED:**
S. Glasses	November 18, 2016
CHECKED BY:	**DATE CHECKED:**
V. Giannola	November 18, 2016
APPROVED BY:	**DATE APPROVED:**
E. McNally	November 18, 2016

Field Sampling Results

Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	100
SC-1	9/12/16	0 to 5.5	0.0	31.3
SC-2	9/12/16	0 to 5.5	0.0	79.9
SC-3	9/12/16	0 to 5.5	0.1	23.5
SC-4	9/12/16	0 to 5.5	0.0	25.0
SC-5	9/12/16	5.5	10.4	78.4
ALL SAMPLES WERE COMPOSITE SAMPLES.				

Laboratory Analytical Results

Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-MRO (mg/kg)
NMOCD ACTION LEVEL			10	50	100		
SC-1	9/12/16	0 to 5.5	<0.024	<0.215	<4.8	<10	<50
SC-2	9/12/16	0 to 5.5	<0.023	<0.207	**<4.6**	**170**	**54**
SC-3	9/12/16	0 to 5.5	<0.023	<0.211	<4.7	<9.6	<48
SC-4	9/12/16	0 to 5.5	<0.024	<0.216	<4.8	68	<48
SC-5	9/12/16	5.5	<0.024	<0.219	<4.9	25	<50
ALL SAMPLES WERE ANALYZED PER USEPA METHOD 8021B AND 8015D.							



LEGEND

● SOIL BORING LOCATIONS

N

SCALE
15 10 5 0 15
(1 INCH = 15 FEET)

AES Field Sampling Report

Animas Environmental Services, LLC

Client: ConocoPhillips

Project Location: Johnston A 15

Date: 4/19/2016

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ 2'	4/19/2016	10:35	0.0	*Not Analyzed for TPH*				
SB-1 @ 4'	4/19/2016	10:41	0.0	26.8	12:37	20.0	1	CL
SB-1 @ 6'	4/19/2016	10:50	0.0	15.7	12:43	20.0	1	CL
SB-1 @ 8'	4/19/2016	10:55	0.0	25.2	12:48	20.0	1	CL
SB-1 @ 10'	4/19/2016	11:10	0.0	15.7	12:53	20.0	1	CL
SB-1 @ 12'	4/19/2016	11:19	0.0	10.9	12:58	20.0	1	CL
SB-2 @ 4'	4/19/2016	11:33	0.0	*Not Analyzed for TPH*				
SB-2 @ 6'	4/19/2016	11:38	0.0	20.4	13:55	20.0	1	CL
SB-2 @ 8'	4/19/2016	11:43	0.0	*Not Analyzed for TPH*				
SB-2 @ 10'	4/19/2016	11:49	0.0	*Not Analyzed for TPH*				
SB-2 @ 12'	4/19/2016	11:58	0.0	12.5	14:00	20.0	1	CL
SB-3 @ 4'	4/19/2016	12:20	0.0	*Not Analyzed for TPH*				
SB-3 @ 8'	4/19/2016	12:31	0.0	15.7	14:05	20.0	1	CL

Report Finalized: 4/19/16

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-3 @ 10'	4/19/2016	12:39	0.0	*Not Analyzed for TPH*				
SB-3 @ 12'	4/19/2016	12:44	0.0	12.5	14:09	20.0	1	CL
SB-4 @ 4'	4/19/2016	13:05	0.0	*Not Analyzed for TPH*				
SB-4 @ 6'	4/19/2016	13:10	0.0	14.1	14:14	20.0	1	CL
SB-4 @ 8'	4/19/2016	13:13	0.0	*Not Analyzed for TPH*				
SB-4 @ 10'	4/19/2016	13:20	0.0	*Not Analyzed for TPH*				
SB-4 @ 12'	4/19/2016	13:28	0.0	9.3	14:20	20.0	1	CL

DF Dilution Factor
NA Not Analyzed
PQL Practical Quantitation Limit
**Field TPH concentrations recorded may be below PQL.*

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

Report Finalized: 4/19/16

AES Field Sampling Report

Animas Environmental Services, LLC

Client: ConocoPhillips

Project Location: Johnston A 15

Date: 9/12/2016

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	9/12/2016	12:32	North Wall	0.0	31.3	13:15	20.0	1	EMS
SC-2	9/12/2016	12:35	South Wall	0.0	79.9	13:18	20.0	1	EMS
SC-3	9/12/2016	12:29	East Wall	0.1	23.5	13:20	20.0	1	EMS
SC-4	9/12/2016	12:44	West Wall	0.0	25.0	13:22	20.0	1	EMS
SC-5	9/12/2016	12:41	Base	10.4	78.4	13:24	20.0	1	EMS

DF Dilution Factor
NA Not Analyzed
PQL Practical Quantitation Limit
**TPH concentrations recorded may be below PQL.*

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Emily Sky

Report Finalized: 9/12/16

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 30, 2016

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

RE: COPC JOHNSTON A 15 OrderNo.: 1603A09

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/19/2016 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 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 qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1603A09**
Date Reported: **3/30/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: COPC JOHNSTON A 15
Lab ID: 1603A09-001 **Matrix:** SOIL

Client Sample ID: S-1
Collection Date: 3/18/2016 1:06:00 PM
Received Date: 3/19/2016 11:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH						Analyst: **TOM**	
Petroleum Hydrocarbons, TR	11000	1900		mg/Kg	100	3/23/2016	24342
EPA METHOD 300.0: ANIONS						Analyst: **SRM**	
Chloride	ND	30		mg/Kg	20	3/26/2016 10:50:28 PM	24454
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	2.4		mg/Kg	100	3/22/2016 5:45:46 PM	24355
Toluene	20	4.7		mg/Kg	100	3/22/2016 5:45:46 PM	24355
Ethylbenzene	17	4.7		mg/Kg	100	3/22/2016 5:45:46 PM	24355
Xylenes, Total	440	9.5		mg/Kg	100	3/22/2016 5:45:46 PM	24355
Surr: 4-Bromofluorobenzene	126	80-120	S	%Rec	100	3/22/2016 5:45:46 PM	24355

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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#: **1603A09**

30-Mar-16

Client: Animas Environmental

Project: COPC JOHNSTON A 15

Sample ID **MB-24454**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **24454**	RunNo: **33106**
Prep Date: **3/26/2016**	Analysis Date: **3/26/2016**	SeqNo: **1016110** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-24454**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **24454**	RunNo: **33106**
Prep Date: **3/26/2016**	Analysis Date: **3/26/2016**	SeqNo: **1016111** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.5	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#: **1603A09**

30-Mar-16

Client: Animas Environmental

Project: COPC JOHNSTON A 15

Sample ID **MB-24342**	SampType: **MBLK**	TestCode: **EPA Method 418.1: TPH**							
Client ID: **PBS**	Batch ID: **24342**	RunNo: **32998**							
Prep Date: **3/21/2016**	Analysis Date: **3/23/2016**	SeqNo: **1012149**	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-24342**	SampType: **LCS**	TestCode: **EPA Method 418.1: TPH**							
Client ID: **LCSS**	Batch ID: **24342**	RunNo: **32998**							
Prep Date: **3/21/2016**	Analysis Date: **3/23/2016**	SeqNo: **1012150**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	110	20	100.0	0	109	83.4	127			

Sample ID **LCSD-24342**	SampType: **LCSD**	TestCode: **EPA Method 418.1: TPH**							
Client ID: **LCSS02**	Batch ID: **24342**	RunNo: **32998**							
Prep Date: **3/21/2016**	Analysis Date: **3/23/2016**	SeqNo: **1012151**	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	105	83.4	127	3.98	20	

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#: **1603A09**

30-Mar-16

Client: Animas Environmental
Project: COPC JOHNSTON A 15

Sample ID **MB-24355**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **24355**	RunNo: **32985**
Prep Date: **3/21/2016**	Analysis Date: **3/22/2016**	SeqNo: **1011677** Units: **mg/Kg**

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		111	80	120			

Sample ID **LCS-24355**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **24355**	RunNo: **32985**
Prep Date: **3/21/2016**	Analysis Date: **3/22/2016**	SeqNo: **1011678** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.9	75.3	123			
Toluene	0.89	0.050	1.000	0	88.8	80	124			
Ethylbenzene	0.92	0.050	1.000	0	91.7	82.8	121			
Xylenes, Total	2.7	0.10	3.000	0	90.6	83.9	122			
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120			

Sample ID **1603A01-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **24355**	RunNo: **32985**
Prep Date: **3/21/2016**	Analysis Date: **3/22/2016**	SeqNo: **1011680** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.023	0.9381	0.01203	93.7	71.5	122			
Toluene	0.89	0.047	0.9381	0.01902	92.9	71.2	123			
Ethylbenzene	0.98	0.047	0.9381	0.04876	99.8	75.2	130			
Xylenes, Total	3.4	0.094	2.814	0.4616	106	72.4	131			
Surr: 4-Bromofluorobenzene	1.1		0.9381		120	80	120			S

Sample ID **1603A01-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **24355**	RunNo: **32985**
Prep Date: **3/21/2016**	Analysis Date: **3/22/2016**	SeqNo: **1011681** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.024	0.9515	0.01203	93.4	71.5	122	1.07	20	
Toluene	0.91	0.048	0.9515	0.01902	93.7	71.2	123	2.25	20	
Ethylbenzene	0.99	0.048	0.9515	0.04876	99.3	75.2	130	0.854	20	
Xylenes, Total	3.4	0.095	2.854	0.4616	103	72.4	131	1.27	20	
Surr: 4-Bromofluorobenzene	1.2		0.9515		123	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

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: **1603A09** RcptNo: 1

Received by/date: 03/19/16

Logged By: **Joe Archuleta** **3/19/2016 11:00:00 AM**

Completed By: **Joe Archuleta** **3/19/2016 12:08:38 PM**

Reviewed By: 03/21/16

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° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	Adjusted?
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 ☐	Checked by:

Special Handling (if applicable)

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

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services, LLC

Mailing Address: 604 W Pinon St.
Farmington, NM 87401

Phone #: 505-564-2281

Email or Fax#: eskyles@animasenvironmental.com

QA/QC Package:
X Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other_____
☐ EDD (Type) _____

Turn-Around Time:
X Standard ☐ Rush_____

Project Name:

Project #:
COPC JOHNSTON A 15

Project Manager:
E. Skyles

Sampler: CL/DTD

On Ice: X Yes ☐ No

Sample Temperature: 1.7

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1603109	BTEX - 8021B	TPH - EPA 418.1	Chlorides - 300.0	Air Bubbles (Y or N)
3/18/16	13:06	SOIL	S - 1	1 - 4 oz.	cool	-001	X	X	X	

Date:	Time:	Relinquished by:	Received by:	Date	Time
3/18/16	1715	Delilah Dorsey	Crystal Walker	3/18/16	1715
3/18/16	1804	Crystal Walker	Jac. Grant	03/19/16	1100

Remarks: Bill to Conoco Phillips
WO # 21340555
Supervisor: Nelson
USERID: MCINNSK
Area: 9
Ordered by: Bobby Spearman

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

September 19, 2016

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

RE: COPC Johnston A 15 OrderNo.: 1609689

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 5 sample(s) on 9/13/2016 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 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 qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1609689**
Date Reported: **9/19/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: COPC Johnston A 15
Lab ID: 1609689-001 **Matrix:** SOIL

Client Sample ID: SC-1
Collection Date: 9/12/2016 12:32:00 PM
Received Date: 9/13/2016 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/16/2016 3:33:59 PM	27519
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/16/2016 3:33:59 PM	27519
Surr: DNOP	112	70-130		%Rec	1	9/16/2016 3:33:59 PM	27519
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/15/2016 12:50:57 PM	27505
Surr: BFB	78.0	68.3-144		%Rec	1	9/15/2016 12:50:57 PM	27505
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	9/15/2016 12:50:57 PM	27505
Toluene	ND	0.048		mg/Kg	1	9/15/2016 12:50:57 PM	27505
Ethylbenzene	ND	0.048		mg/Kg	1	9/15/2016 12:50:57 PM	27505
Xylenes, Total	ND	0.095		mg/Kg	1	9/15/2016 12:50:57 PM	27505
Surr: 4-Bromofluorobenzene	90.5	80-120		%Rec	1	9/15/2016 12:50:57 PM	27505

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-2
Project: COPC Johnston A 15
Collection Date: 9/12/2016 12:35:00 PM
Lab ID: 1609689-002
Matrix: SOIL
Received Date: 9/13/2016 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	170	9.7		mg/Kg	1	9/16/2016 3:55:34 PM	27519
Motor Oil Range Organics (MRO)	54	49		mg/Kg	1	9/16/2016 3:55:34 PM	27519
Surr: DNOP	111	70-130		%Rec	1	9/16/2016 3:55:34 PM	27519
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/15/2016 2:01:31 PM	27505
Surr: BFB	78.7	68.3-144		%Rec	1	9/15/2016 2:01:31 PM	27505
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	9/15/2016 2:01:31 PM	27505
Toluene	ND	0.046		mg/Kg	1	9/15/2016 2:01:31 PM	27505
Ethylbenzene	ND	0.046		mg/Kg	1	9/15/2016 2:01:31 PM	27505
Xylenes, Total	ND	0.092		mg/Kg	1	9/15/2016 2:01:31 PM	27505
Surr: 4-Bromofluorobenzene	91.6	80-120		%Rec	1	9/15/2016 2:01:31 PM	27505

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-3
Project: COPC Johnston A 15
Collection Date: 9/12/2016 12:29:00 PM
Lab ID: 1609689-003
Matrix: SOIL
Received Date: 9/13/2016 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/16/2016 4:17:11 PM	27519
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/16/2016 4:17:11 PM	27519
Surr: DNOP	111	70-130		%Rec	1	9/16/2016 4:17:11 PM	27519
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/15/2016 3:12:12 PM	27505
Surr: BFB	77.8	68.3-144		%Rec	1	9/15/2016 3:12:12 PM	27505
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	9/15/2016 3:12:12 PM	27505
Toluene	ND	0.047		mg/Kg	1	9/15/2016 3:12:12 PM	27505
Ethylbenzene	ND	0.047		mg/Kg	1	9/15/2016 3:12:12 PM	27505
Xylenes, Total	ND	0.094		mg/Kg	1	9/15/2016 3:12:12 PM	27505
Surr: 4-Bromofluorobenzene	92.6	80-120		%Rec	1	9/15/2016 3:12:12 PM	27505

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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, Inc.

CLIENT: Animas Environmental
Project: COPC Johnston A 15
Lab ID: 1609689-004 **Matrix:** SOIL

Client Sample ID: SC-4
Collection Date: 9/12/2016 12:44:00 PM
Received Date: 9/13/2016 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	68	9.6		mg/Kg	1	9/16/2016 4:38:48 PM	27519
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/16/2016 4:38:48 PM	27519
Surr: DNOP	114	70-130		%Rec	1	9/16/2016 4:38:48 PM	27519
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/15/2016 3:35:43 PM	27505
Surr: BFB	78.1	68.3-144		%Rec	1	9/15/2016 3:35:43 PM	27505
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	9/15/2016 3:35:43 PM	27505
Toluene	ND	0.048		mg/Kg	1	9/15/2016 3:35:43 PM	27505
Ethylbenzene	ND	0.048		mg/Kg	1	9/15/2016 3:35:43 PM	27505
Xylenes, Total	ND	0.096		mg/Kg	1	9/15/2016 3:35:43 PM	27505
Surr: 4-Bromofluorobenzene	92.3	80-120		%Rec	1	9/15/2016 3:35:43 PM	27505

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
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, Inc.

CLIENT: Animas Environmental
Project: COPC Johnston A 15
Lab ID: 1609689-005 **Matrix:** SOIL

Client Sample ID: SC-5
Collection Date: 9/12/2016 12:41:00 PM
Received Date: 9/13/2016 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	25	9.9		mg/Kg	1	9/16/2016 5:00:34 PM	27519
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/16/2016 5:00:34 PM	27519
Surr: DNOP	113	70-130		%Rec	1	9/16/2016 5:00:34 PM	27519
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/15/2016 3:59:12 PM	27505
Surr: BFB	77.8	68.3-144		%Rec	1	9/15/2016 3:59:12 PM	27505
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	9/15/2016 3:59:12 PM	27505
Toluene	ND	0.049		mg/Kg	1	9/15/2016 3:59:12 PM	27505
Ethylbenzene	ND	0.049		mg/Kg	1	9/15/2016 3:59:12 PM	27505
Xylenes, Total	ND	0.097		mg/Kg	1	9/15/2016 3:59:12 PM	27505
Surr: 4-Bromofluorobenzene	90.5	80-120		%Rec	1	9/15/2016 3:59:12 PM	27505

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

Qualifiers:

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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#: **1609689**

19-Sep-16

Client: Animas Environmental
Project: COPC Johnston A 15

Sample ID **LCS-27519**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **27519**	RunNo: **37245**
Prep Date: **9/15/2016**	Analysis Date: **9/16/2016**	SeqNo: **1156026** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	106	62.6	124			
Surr: DNOP	5.1		5.000		101	70	130			

Sample ID **MB-27519**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **27519**	RunNo: **37245**
Prep Date: **9/15/2016**	Analysis Date: **9/16/2016**	SeqNo: **1156027** 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	10		10.00		102	70	130			

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#: **1609689**

19-Sep-16

Client: Animas Environmental

Project: COPC Johnston A 15

Sample ID **MB-27505**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **27505**	RunNo: **37219**
Prep Date: **9/14/2016**	Analysis Date: **9/15/2016**	SeqNo: **1155555** 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	800		1000		79.7	68.3	144			

Sample ID **LCS-27505**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **27505**	RunNo: **37219**
Prep Date: **9/14/2016**	Analysis Date: **9/15/2016**	SeqNo: **1155556** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.7	80	120			
Surr: BFB	860		1000		86.2	68.3	144			

Sample ID **1609689-002AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SC-2**	Batch ID: **27505**	RunNo: **37219**
Prep Date: **9/14/2016**	Analysis Date: **9/15/2016**	SeqNo: **1155562** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	23.85	0	100	59.3	143			
Surr: BFB	870		954.2		91.6	68.3	144			

Sample ID **1609689-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SC-2**	Batch ID: **27505**	RunNo: **37219**
Prep Date: **9/14/2016**	Analysis Date: **9/15/2016**	SeqNo: **1155563** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.6	22.94	0	106	59.3	143	1.57	20	
Surr: BFB	820		917.4		89.7	68.3	144	0	0	

Qualifiers:

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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#: **1609689**

19-Sep-16

Client: Animas Environmental

Project: COPC Johnston A 15

Sample ID **MB-27505**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **27505**	RunNo: **37219**
Prep Date: **9/14/2016**	Analysis Date: **9/15/2016**	SeqNo: **1155569** Units: **mg/Kg**

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	0.95		1.000		95.0	80	120			

Sample ID **LCS-27505**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **27505**	RunNo: **37219**
Prep Date: **9/14/2016**	Analysis Date: **9/15/2016**	SeqNo: **1155570** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.6	75.3	123			
Toluene	0.99	0.050	1.000	0	99.2	80	124			
Ethylbenzene	1.0	0.050	1.000	0	103	82.8	121			
Xylenes, Total	3.1	0.10	3.000	0	102	83.9	122			
Surr: 4-Bromofluorobenzene	0.98		1.000		97.6	80	120			

Sample ID **1609689-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SC-1**	Batch ID: **27505**	RunNo: **37219**
Prep Date: **9/14/2016**	Analysis Date: **9/15/2016**	SeqNo: **1155572** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9756	0	105	71.5	122			
Toluene	1.1	0.049	0.9756	0	109	71.2	123			
Ethylbenzene	1.1	0.049	0.9756	0	112	75.2	130			
Xylenes, Total	3.3	0.098	2.927	0	111	72.4	131			
Surr: 4-Bromofluorobenzene	0.94		0.9756		96.0	80	120			

Sample ID **1609689-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SC-1**	Batch ID: **27505**	RunNo: **37219**
Prep Date: **9/14/2016**	Analysis Date: **9/15/2016**	SeqNo: **1155573** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9524	0	105	71.5	122	2.38	20	
Toluene	1.0	0.048	0.9524	0	108	71.2	123	3.53	20	
Ethylbenzene	1.1	0.048	0.9524	0	111	75.2	130	3.36	20	
Xylenes, Total	3.1	0.095	2.857	0	109	72.4	131	4.93	20	
Surr: 4-Bromofluorobenzene	0.91		0.9524		96.0	80	120	0	0	

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
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HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1609689 RcptNo: 1

Received by/date: KC 09/13/16

Logged By: Ashley Gallegos 9/13/2016 8:15:00 AM

Completed By: Ashley Gallegos 9/13/2016 5:59:29 PM

Reviewed By: JC 09/14/16

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° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services, LLC

Mailing Address: 604 W Pinon St.
Farmington, NM 87401

Phone #: 505-564-2281

Email or Fax#: eskyles@animasenvironmental.com

QA/QC Package:
X Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
X Standard ☐ Rush

Project Name: COPC JOHNSTON A #15

Project #:

Project Manager: E. Skyles

Sampler: E. Skyles

On Ice: X Yes ☐ No

Sample Temperature: 3.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1603916089	BTEX - 8021B	TPH - EPA 8015 (GRO/DRO/MRO)	Air Bubbles (Y or N)
9/12/16	12:32	SOIL	SC-1	1 - 4 oz.	cool	-001	X	X	
9/12/16	12:35	SOIL	SC-2	1 - 4 oz.	cool	-002	X	X	
9/12/16	12:29	SOIL	SC-3	1 - 4 oz.	cool	-003	X	X	
9/12/16	12:44	SOIL	SC-4	1 - 4 oz.	cool	-004	X	X	
9/12/16	12:41	SOIL	SC-5	1 - 4 oz.	cool	-005	X	X	

Date	Time	Relinquished by:	Received by:	Date	Time
9/12/16	1652	E. Skyles	Christine Walls	9/12/16	1652
9/12/16	1848	Christine Walls	Lindsey Conchas	09/13/16	0815

Remarks: Bill to Conoco Phillips
WO # 21340555
Supervisor: Nelson
USERID: MCINNSK
Area: 9
Ordered by: Lisa Hunter

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

Photo #1	
Client: ConocoPhillips	
Project Name: Johnston A #15 Rio Arriba County, NM	
Date Photo Taken: March 18, 2016	
BGT GPS and Location: 36.43997, -107.41248 NE¼ SE¼, Section 36, T26N, R6W	
Taken by: Delilah Dougi, AES	Subject: BGT sampling, March 2016
	Description: Facing N, overview of entire location.

Photo #2	
Client: ConocoPhillips	
Project Name: Johnston A #15 Rio Arriba County, NM	
Date Photo Taken: March 18, 2016	
BGT GPS and Location: 36.43997, -107.41248 NE¼ SE¼, Section 36, T26N, R6W	
Taken by: Delilah Dougi, AES	Subject: BGT sampling, March 2016
	Description: Facing N, sample location.