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 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. OIL CONS. DIV DIST. 3 Operator: Burlington Resources Oil & Gas Company, LP OGRID #: 14538 Address: PO BOX 4289, Farmington, NM 87499 SEP 06 2016 Facility or well name: San Juan 30-6 Unit 438S API Number: 30-039-27752 OCD Permit Number: U/L or Qtr/Qtr O (SWSE) Section 12 Township 30N Range 6W County: Rio Arriba Center of Proposed Design: Latitude 36.823483 °N Longitude -107.410044 °W NAD: □1927 ☑ 1983 Surface Owner: ☐ Federal ☐ State ☒ Private ☐ Tribal Trust or Indian Allotment 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 Below-grade tank: Subsection I of 19.15.17.11 NMAC bbl Type of fluid: Produced Water 120 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 Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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institution or church)

Alternate. Please specify

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,

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)

Four foot height, four strands of barbed wire evenly spaced between one and four feet

1 2 ,	
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	
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. <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC <u>Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accematerial are provided below. Siting criteria does not apply to drying pads or above-grade tanks.</u>	eptable source
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
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.	☐ Yes ☐ No
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	1 1 11 3
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

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 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 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 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 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 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 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application. Please indicate, by a check mark in the box, that the documentatached.	Yes No Yes No Yes No						
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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 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 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 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Tomporary 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 document attached.							
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lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 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 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 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Topographic map; Visual inspection (certification) of the proposed site Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the document attached.							
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initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 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 document attached.	Yes No						
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 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 document attached.	Yes No						
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 document attached.	Yes No						
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							
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 document 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. 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:	ts are						

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 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	documents are					
 □ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC □ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC □ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC □ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC □ Quality Control/Quality Assurance Construction and Installation Plan □ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC □ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC □ Nuisance or Hazardous Odors, including H₂S, Prevention Plan 						
 □ Emergency Response Plan □ Oil Field Waste Stream Characterization □ Monitoring and Inspection Plan □ Erosion Control Plan □ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 						
13. Proposed Closure: 19.15.17.13 NMAC						
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Falternative 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	luid Management Pit					
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be 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						
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 sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 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					
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						
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 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						
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 						
Within a 100-year floodplain.	Yes No					
- FEMA map	☐ Yes ☐ No					
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 19.15.17.13 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						
17. Operator Application Cortifications						
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	·f					
Name (Print): Title:						
Signature: Date:						
e-mail address: Telephone:						
18. OCD Approval: ☐ Permit Application (including closure Plan (only) ☐ OCD Conditions (see attachment)						
	2011					
OCD Representative Signature: Approval Date: 99	9016					
Title: Environmental Operalist OCD Permit Number:						
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 to the closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not consection of the form until an approved closure plan has been obtained and the closure activities have been completed.						
☐ Closure Completion Date: 7/22/2016						
20. Closure Method: ☑ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loo ☐ If different from approved plan, please explain.	op systems only)					
21.						

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: Solal Walker Date: 9/2/2016
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: San Juan 30-6 Unit 438S

API No.: 30-039-27752

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.

 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

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.

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 certified mail. (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:

Busse, Dollie L

Sent:

Tuesday, July 19, 2016 9:27 AM

To:

'Smith, Cory, EMNRD'; Vanessa.Fields@state.nm.us; 'Brandon.Powell@state.nm.us'

Cc:

Michael Porter; 'jmckinne@blm.gov'; Farrell, Juanita R; Payne, Wendy F; Trujillo, Fasho D;

Hunter, Lisa; Spearman, Bobby E; Walker, Crystal; Roberts, Kelly G

Subject:

San Juan 30-6 Unit 438S - 72 Hour BGT Closure Notification

Attachments:

BGT NOTICE -30-6 438S_Gomez Y Gomez.doc

Importance:

High

Subject: 72 Hour BGT Closure Notification

Anticipated Start Date: Friday, July 22, 2016 at approximately 10:00 a.m.

The subject well has a below-grade tank that will begin the closure process between 72 hours and one week from this notification. Please contact me at any time if you have any questions or concerns.

Well Name:

San Juan 30-6 Unit 438S

API#:

3003927752

Location:

Unit O (SWSE), Section 12, T30N, R6W

Footages:

1260' FSL & 715' FEL

Operator:

Burlington Resources

Surface Owner: Fee (Lease #SF-080713)

Reason:

P&A'd 5/12/2015

Dollie L. Busse Regulatory Technician ConocoPhillips Company 505-324-6104 505-787-9959 Dollie.L.Busse@cop.com



Juanita Farrell Analyst Surface Land ConocoPhillips Company 3401 E. 30th Street PO Box 4289 Farmington, NM 87499-1429 (505) 326-9597 (505) 324-6136

CERTIFIED MAIL – RETURN RECEIPT REQUESTED 9214 7969 0099 9790 1004 2591 42

July 19, 2016

Gomez Y. Gomez PO Box 505 Blanco, NM 87412

Re: San Juan 30-6 Unit 438S

API: 30-039-27752 Unit O (SW/SE), Section 12, T 30N, Ro6W, Rio Arriba County, New Mexico

Dear Mr. Gomez:

Pursuant to New Mexico Administrative Code § 19.15.17.13 (E) (1) operator shall provide the surface owner of the operator's proposal to close a below- grade tank.

In compliance with this requirement, please consider this letter as notification that ConocoPhillips intends to close a below-grade tank on the subject well pad. The closure process will begin between 72 hours and one week from this notification.

If you have any questions, please contact the Surface Land Department at (505) 324-6111.

Sincerely,

Juanita Farrell

<u>District I</u> 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 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

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

			Rele	ase Notifica	tio	n and Co	orrective A	ction	1			
						OPERA	TOR		☐ Initi	al Report	\boxtimes	Final Repor
Name of Company Burlington Resources Oil & Gas Company						Contact Crystal Walker						
Address 3401 East 30th St, Farmington, NM							No.(505) 326-98	837				
Facility Name: San Juan 30-6 Unit 438S						Facility Typ	e: Gas Well					
Surface Owner FEE Mineral Owner					ner	BLM			API No	o. 30-039-2	27752	
				LOCAT	CIO	N OF RE	LEASE					
Unit Letter O	Section 12	Township 30N	Range 6W	Feet from the	North	h/South Line Feet from the East			Vest Line	County		
			Lat	itude <u>36.82348</u>	33	Longitud	e107.41004	14				
				NATU	RE	OF REL	EASE					
Type of Rele	ase					Volume of	Release		Volume l	Recovered		
Source of Re	lease					Date and H	Hour of Occurrence	ce	Date and	Hour of Dis	covery	t i
Was Immedi	ate Notice G	iven?				If YES, To	Whom?					
			Yes	No Not Requ	uired	11 120, 10	Willom.					
By Whom?						Date and H	Iour					
Was a Water	course Reac					If YES, Vo	olume Impacting	the Wate	rcourse.			
			Yes 🛛 N	No								
Describe Cau No release w	as encounte	ered during t	the BGT (Closure.								
regulations al public health should their of	or the environment of the perations had need to be a second or the control of the	are required to conment. The live failed to a dittion, NMO	acceptance acceptance dequately CD accept	is true and complet d/or file certain rele e of a C-141 report investigate and rem tance of a C-141 rep	ease n by the nediat	otifications ar e NMOCD ma e contamination	nd perform correct arked as "Final R on that pose a three the operator of	etive action eport" do eat to gro responsil	ons for release not release not release not release to the count water bility for contract to the country for coun	eases which ieve the oper r, surface wa ompliance w	may er ator of ter, hur with any	ndanger Fliability man health
Signature: John Wolker			OIL CONSERVATION DIVISION									
Printed Name	: Crystal W	alker				Approved by	Environmental S	pecialist				
Title: Regula	tory Coordi	nator				Approval Dat	e:	Е	expiration	Date:		
E-mail Addre	1	stal.walker@		7		Conditions of Approval: Attached						
Attach Addi												

Animas Environmental Services, LLC



August 24, 2016

Robert Spearman ConocoPhillips San Juan Business Unit (505) 320-3045

Via electronic mail to: <u>SJBUE-Team@ConocoPhillips.com</u>

RE: **Below Grade Tank Closure Report**

San Juan 30-6 Unit 438S

Rio Arriba County, New Mexico

Dear Mr. Spearman:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the below grade tank (BGT) closure at ConocoPhillips (COPC) San Juan 30-6 Unit 438S, located in Rio Arriba County, New Mexico. Tank removal was completed by COPC contractors while AES was on site.

1.0 Site Information

1.1 Location

Site Name - San Juan 30-6 Unit 438S Legal Description - SW¼ SE¼, Section 12, T30N, R6W, Rio Arriba County, New Mexico Well Latitude/Longitude - N36.82331 and W107.41026, respectively BGT Latitude/Longitude - N36.82349 and W107.41004, respectively Land Jurisdiction – Bureau of Land Management (BLM) Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, July 2016

1.2 **NMOCD** Ranking

In accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases (August 1993), the location was given a ranking score of 20 based on the following factors:

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

> 1911 Main, Ste 200 Durango, CO 81301 970-403-3084

www.animasenvironmental.com

Depth to Groundwater: Based on elevation, topographic interpretation and visual reconnaissance, depth to groundwater is interpreted to be 50 to 100 feet below ground surface (bgs). (10 points)

- Wellhead Protection Area: The tank location is not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: The La Fragua Canyon arroyo is located approximately 410 feet south of the BGT. (10 points)

1.3 BGT Closure Assessment

AES was initially contacted by Robert Spearman of COPC on July 18, 2016, and on July 22, 2016, Sam Glasses of AES mobilized to the location. AES personnel collected one 5-point soil sample composited from four perimeter samples and one center sample of the BGT footprint from below the BGT liner.

2.0 Soil Sampling

On July 22, 2016, AES personnel conducted field sampling and collected one 5-point composite (BGT SC-1) from below the BGT. Soil was collected from approximately 0.5 feet below the former BGT. Soil sample BGT SC-1 was field screened for volatile organic compounds (VOCs), total petroleum hydrocarbon (TPH), and chloride, and was submitted for confirmation laboratory analysis. Soil sample locations are included on Figure 2.

2.1 Field Sampling

2.1.1 Volatile Organic Compounds

A portion of BGT SC-1 was utilized for field screening of VOC vapors 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 sample BGT SC-1 was also analyzed in the field for TPH per U.S. Environmental Protection Agency (USEPA) Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck). A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES's Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1.

2.1.3 Chlorides

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

2.2 Laboratory Analyses

The composite soil sample BGT SC-1 collected for laboratory analysis was placed into a new, clean, laboratory-supplied container, which was then labeled, placed on ice, and logged onto a sample chain of custody record. The sample was maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil sample BGT SC-1 was laboratory analyzed for:

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

2.3 Field and Laboratory Analytical Results

Field screening readings for VOCs via OVM were measured at 0.0 ppm in BGT SC-1. Field TPH concentrations were reported at 79.2 mg/kg. The field chloride concentration was 40 mg/kg. Field sampling results are summarized in Table 1 and presented on Figure 2. The AES Field Sampling Report is attached.

Table 1. Soil Field VOCs, TPH, and Chloride Results San Juan 30-6 Unit 438S BGT Closure, July 2016

Sample ID	Date Sampled	Depth below BGT (ft)	VOCs OVM Reading (ppm)	Field TPH (mg/kg)	Field Chlorides (mg/kg)
NMOCD Action I	evel (NMAC 19.	15.17.13E)		100	250
BGT SC-1	7/22/16	0.5	0.0	79.2	40

Laboratory analytical results reported benzene and total BTEX concentrations in BGT SC-1 as less than 0.025 mg/kg and 0.221 mg/kg, respectively. TPH concentrations were reported at less than 19 mg/kg. The laboratory chloride concentration was reported below the laboratory detection limit of 30 mg/kg. Laboratory analytical results are summarized in Table 2 and included on Figure 2. The laboratory analytical report is attached.

Table 2. Soil Laboratory Analytical Results San Juan 30-6 Unit 438S BGT Closure, July 2016

Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH (mg/kg)	Chlorides (mg/kg)
	MOCD Action MAC 19.15.		0.2	50	100	250
BGT SC-1	7/22/16	0.5	<0.025	<0.221	<19	<30

3.0 Conclusions and Recommendations

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. Field TPH concentrations in BGT SC-1 were below the NMOCD action level of 100 mg/kg, with a concentration reported at 79.2 mg/kg. Benzene and total BTEX concentrations were below the NMOCD action levels of 0.2 mg/kg and 50 mg/kg, respectively. Chloride concentrations in BGT SC-1 were below the NMOCD action level of 250 mg/kg. Based on field sampling and laboratory analytical results for benzene, total BTEX, TPH, and chlorides, no further work is recommended at San Juan 30-6 Unit 438S.

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

Sincerely,

David J. Reese

Environmental Scientist

Sinh ShL

David of Reme

Emilee Skyles

Geologist/Project Lead

Elizabeth McNally, P.E.

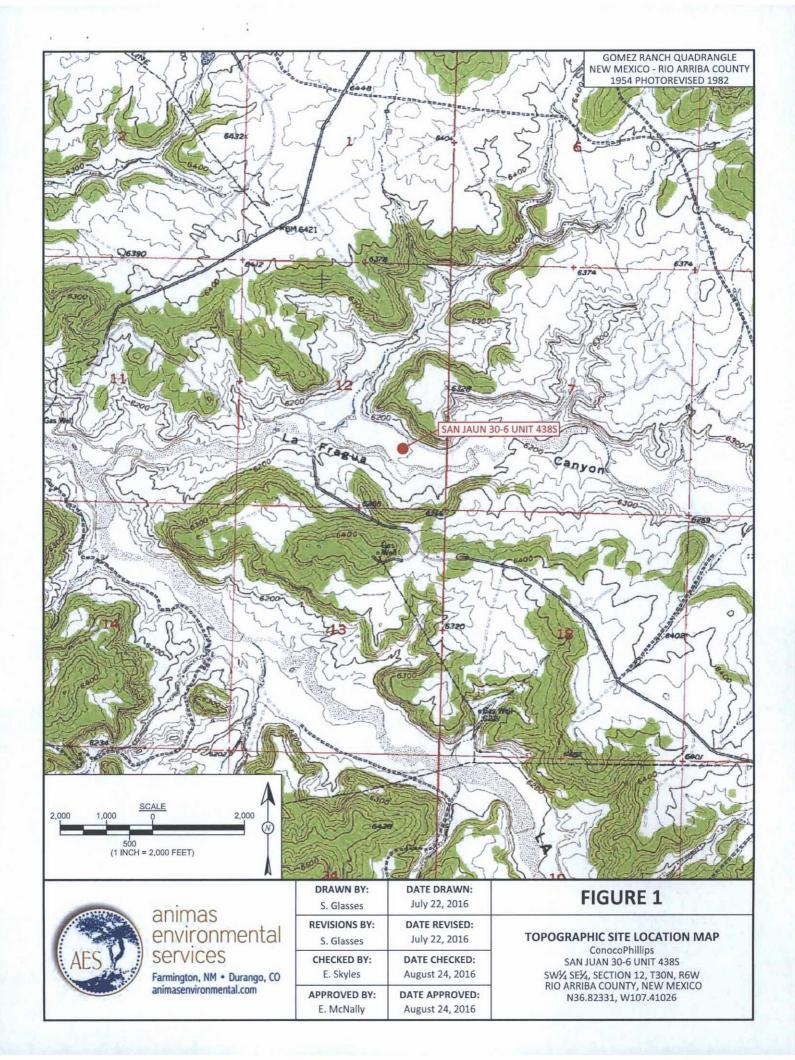
Elizabeth V MiNdly

Robert Spearman San Juan 30-6 Unit 438S BGT Closure Report August 24, 2016 Page 5 of 5

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, July 2016 AES Field Sampling Report 072216 Hall Analytical Report 1607C16

R:\Animas 2000\Dropbox (Animas Environmental)\0000 AES Server Client Projects Dropbox\2016 Client Projects\ConocoPhillips\SJ 30-6 438S\San Juan 30-6 Unit 438S BGT Closure Report 082416.docx





SAMPLE LOCATIONS

	Fiel	ld Samplir	ng Result	s		
Sample ID	Date	Depth (ft)	OVM- PID (ppm) TPH (mg/kg)		Chlorides (mg/kg)	
NA	AOCD ACTIO		100	250		
BGT SC-1	7/22/16	0.5	0.0	79.2	40	
BGT SC-1 IS A 5-POINT COMPOSITE SAMPLE.						

		Laborator	y Analytico	al Results		
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL		0.2	50	100	250	
BGT SC-1	7/22/16	0.5	<0.025	<0.221	<19	<30
SAMPLE WAS ANALYZED PER USEPA METHOD 8021B, 418.1 AND 300.0.						

SAN JUAN 30-6 UNIT 4385 WELL MONUMENT 10 (1 INCH = 40 FEET) AERIAL SOURCE: © 2016 GOOGLE EARTH PRO, AERIAL DATE: MARCH 16, 2016



DRAWN BY: S. Glasses	July 22, 2016
REVISIONS BY:	DATE REVISED:
C. Lameman	August 24, 2016
CHECKED BY:	DATE CHECKED:
E. Skyles	August 24, 2016
APPROVED BY:	DATE APPROVED:
E. McNally	August 24, 2016

AERIAL SITE MAP BELOW GRADE TANK CLOSURE JULY 2016 ConocoPhillips SAN JUAN 30-6 UNIT 438S

FIGURE 2

SAN JUAN 30-6 UNIT 438S SW¼ SE¼, SECTION 12, T30N, R6W RIO ARRIBA COUNTY, NEW MEXICO N36.82331, W107.41026

AES Field Sampling Report



Client: ConocoPhillips

Project Location: San Juan 30-6 Unit 438S

Date: 7/22/2016

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field Chloride (mg/kg)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
BGT SC-1	7/22/2016	10:20	Composite	0.0	40	79.2	11:00	20.0	1	SHG

DF

Dilution Factor

NA

Not Analyzed

PQL

Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL.

Field Chloride - Quantab Chloride Titrators or Drop Count

Titration with Silver Nitrate

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Ann Fl Dersen for



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

August 01, 2016

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

FAX

RE: COPC San Juan 30-6 Unit 438S

OrderNo.: 1607C16

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/23/2016 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1607C16

Date Reported: 8/1/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: BGT SC-1

Project: COPC San Juan 30-6 Unit 438S

Collection Date: 7/22/2016 10:42:00 AM

Lab ID: 1607C16-001

Matrix: SOIL

Received Date: 7/23/2016 8:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analyst:	MAB
Petroleum Hydrocarbons, TR	ND	19	mg/Kg	1	7/29/2016	26664
EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	ND	30	mg/Kg	20	7/28/2016 9:58:15 PM	26675
EPA METHOD 8015M/D: DIESEL RANG				Analyst:	TOM	
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/27/2016 2:10:06 PM	26603
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/27/2016 2:10:06 PM	26603
Surr: DNOP	84.5	70-130	%Rec	1	7/27/2016 2:10:06 PM	26603
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst:	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/26/2016 3:09:39 PM	26581
Surr: BFB	105	80-120	%Rec	1	7/26/2016 3:09:39 PM	26581
EPA METHOD 8021B: VOLATILES					Analyst:	RAA
Benzene	ND	0.025	mg/Kg	1	7/26/2016 3:09:39 PM	26581
Toluene	ND	0.049	mg/Kg	1	7/26/2016 3:09:39 PM	26581
Ethylbenzene	ND	0.049	mg/Kg	1	7/26/2016 3:09:39 PM	26581
Xylenes, Total	ND	0.098	mg/Kg	1	7/26/2016 3:09:39 PM	26581
Surr: 4-Bromofluorobenzene	99.1	80-120	%Rec	1	7/26/2016 3:09:39 PM	26581

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

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 Page 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1607C16

01-Aug-16

Client:

Animas Environmental

Project:

COPC San Juan 30-6 Unit 438S

Sample ID MB-26675

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 26675

RunNo: 36075

Prep Date: 7/28/2016

Units: mg/Kg

Analysis Date: 7/28/2016

SeqNo: 1117847

Analyte

SPK value SPK Ref Val %REC LowLimit PQL

HighLimit

RPDLimit

Qual

Chloride

Result ND

1.5

TestCode: EPA Method 300.0: Anions

Client ID:

Sample ID LCS-26675

Prep Date: 7/28/2016

LCSS

SampType: Ics Batch ID: 26675 Analysis Date: 7/28/2016

PQL

RunNo: 36075

Units: mg/Kg

SeqNo: 1117848

%RPD

SPK value SPK Ref Val %REC

93.3

HighLimit

RPDLimit

Page 2 of 6

Qual

Chloride

1.5

15.00

110

14

%RPD

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- J Analyte detected below quantitation limits
 - Sample pH Not In Range
- RL Reporting Detection Limit

P

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1607C16

01-Aug-16

Client:

Animas Environmental

Project:

COPC San Juan 30-6 Unit 438S

Sample ID MB-26664

SampType: MBLK

TestCode: EPA Method 418.1: TPH

Client ID:

PBS

Batch ID: 26664

POL

20

RunNo: 36072

Prep Date: 7/28/2016

Analysis Date: 7/29/2016

SeqNo: 1117286

Units: mg/Kg

Qual

Analyte Petroleum Hydrocarbons, TR Result ND SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit**

Sample ID LCS-26664

SampType: LCS

TestCode: EPA Method 418.1: TPH

Client ID: LCSS

Batch ID: 26664

RunNo: 36072

Prep Date: 7/28/2016

Analysis Date: 7/29/2016

SeqNo: 1117288

Units: mg/Kg

121

Result

PQL

20

SPK value SPK Ref Val %REC

HighLimit %RPD **RPDLimit**

Qual

Petroleum Hydrocarbons, TR

120

116 TestCode: EPA Method 418.1: TPH

Client ID: LCSS02

Sample ID LCSD-26664

SampType: LCSD

RunNo: 36072

80.7

Units: mg/Kg

Qual

Analyte

Prep Date: 7/28/2016 Analysis Date: 7/29/2016

Batch ID: 26664

SPK value SPK Ref Val %REC LowLimit

80.7

HighLimit

%RPD 2.52 **RPDLimit**

20

Petroleum Hydrocarbons, TR

PQL 110 20

100.0

100.0

0

114

SeqNo: 1117289

Qualifiers:

R

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

RPD outside accepted recovery limits % Recovery outside of range due to dilution or matrix Analyte detected in the associated Method Blank

Value above quantitation range

J Analyte detected below quantitation limits Page 3 of 6

P Sample pH Not In Range

Reporting Detection Limit Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1607C16

01-Aug-16

Client:

Animas Environmental

Cample ID	MD acces	CompT	ma: M	DIV	Too	tCada: E	DA Mathad	DOLENID, DI	anal Bana	Ounonios				
Sample ID		SampTy			TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID:	PBS	Batch	ID: 26	6603	RunNo: 36010									
Prep Date:	7/26/2016	Analysis Da	ate: 7	/27/2016	5	SeqNo: 1	115521	Units: mg/k	(g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range (Organics (DRO)	ND	10											
Motor Oil Rang	e Organics (MRO)	ND	50											
Surr: DNOP		8.0		10.00		80.5	70	130						
Sample ID	1607C16-001AMS	SampTy	pe: M	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics				
Client ID:	BGT SC-1	Batch ID: 26603			F									
Prep Date:	7/26/2016	Analysis Da	ate: 7	/27/2016	SeqNo: 1115705			Units: mg/K	(g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range (Organics (DRO)	49	9.3	46.25	0	105	33.9	141						
Surr: DNOP		4.4		4.625		94.7	70	130						
Sample ID	1607C16-001AMSI	D SampTy	pe: M	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics				
Client ID:	BGT SC-1	Batch	ID: 26	6603	F	RunNo: 3								
Prep Date:	7/26/2016	Analysis Da	ate: 7	/27/2016	5	SeqNo: 1	115706	Units: mg/K	g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range C	Organics (DRO)	46	9.4	47.04	0	97.9	33.9	141	5.28	20				
Surr: DNOP		4.2		4.704		88.4	70	130	0	0				
Sample ID	LCS-26603	SampTy	pe: LC	cs	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics				
	LCSS	Batch	ID: 26	6603	F	RunNo: 3	6010							
Client ID:					SeqNo: 1115716									
Client ID: Prep Date:	7/26/2016	Analysis Da	ate: 7	/27/2016	8	SeqNo: 1	115716	Units: mg/K	g					
	7/26/2016	Analysis Da Result	PQL		SPK Ref Val		115716 LowLimit	Units: mg/K HighLimit	%RPD	RPDLimit	Qual			

Qualifiers:

Surr: DNOP

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

4.5

5.000

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

90.9

70

130

J Analyte detected below quantitation limits

Page 4 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1607C16

01-Aug-16

Client:

Animas Environmental

Project:

Surr: BFB

COPC San Juan 30-6 Unit 438S

1000

Sample ID LCS-26581	Samp1	ype: LC	S	TestCode: EPA Method 8015D: Gasoline Range									
Client ID: LCSS	Batch ID: 26581 Analysis Date: 7/26/2016			F	RunNo: 3	5988							
Prep Date: 7/25/2016				5	SeqNo: 1	115366	Units: mg/k	(g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.8	80	120						
Surr: BFB	1100 1000			114 8			120						
Sample ID MB-26581	SampT	уре: МЕ	BLK	Tes	Code: EF	PA Method	8015D: Gaso	line Rang	е				
Client ID: PBS	Batch	n ID: 26	581	F	unNo: 3	5988							
Prep Date: 7/25/2016	p Date: 7/25/2016 Analysis Date: 7/26/2016		S	SeqNo: 1	115368	Units: mg/K							
Analyte	Result PQL SPK value			SPK Ref Val %REC LowLimit			HighLimit	%RPD	RPDLimit	Qual			

102

80

120

1000

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

Page 5 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1607C16

01-Aug-16

Client:

Animas Environmental

Sample ID	1607C16-001AMS	SampT	ype: MS	3	Tes	tCode: El	de: EPA Method 8021B: Volatiles								
Client ID:	BGT SC-1	Batch	n ID: 26	581	RunNo: 35988										
	7/25/2016	Analysis D	Date: 7/	26/2016	5	SeqNo: 1	115479	Units: mg/k	(g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene		0.83	0.025	0.9990	0	83.5	71.5	122							
Toluene		0.82	0.050	0.9990	0	81.7	71.2	123							
Ethylbenzene		0.85	0.050	0.9990	0	85.4	75.2	130							
Xylenes, Total		2.5	0.10	2.997	0.01641	84.5	72.4	131							
Surr: 4-Bromo	fluorobenzene	1.1		0.9990		106	80	120							
Sample ID	1607C16-001AMSI	SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles						
Client ID:	BGT SC-1	Batch ID: 26581			F	RunNo: 3	5988								
Prep Date:	7/25/2016	Analysis D)ate: 7/	26/2016	5	SeqNo: 1	115480	Units: mg/k	(g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene		1.1	0.025	1.000	0	107	71.5	122	24.9	20	R				
Toluene		1.1	0.050	1.000	0	108	71.2	123	27.6	20	R				
Ethylbenzene		1.1	0.050	1.000	0	113	75.2	130	27.9	20	R				
Xylenes, Total		3.4	0.10	3.000	0.01641	112	72.4	131	27.5	20	R				
Surr: 4-Bromo	fluorobenzene	1.1		1.000		107	80	120	0	0					
Sample ID I	_CS-26581	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles						
Client ID:	_CSS	Batch	n ID: 26	581	F	RunNo: 3	5988								
Prep Date:	7/25/2016	Analysis D	Date: 7/	26/2016	5	SeqNo: 1	115489	Units: mg/k	(g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene		1.0	0.025	1.000	0	101	75.3	123							
Toluene		0.98	0.050	1.000	0	98.1	80	124							
Ethylbenzene		1.0	0.050	1.000	0	100	82.8	121							
Xylenes, Total		3.0	0.10	3.000	0	99.9	83.9	122							
Surr: 4-Bromo	fluorobenzene	1.0		1.000		105	80	120							
Sample ID I	MB-26581	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles						
Client ID:	PBS	Batch	n ID: 26	581	F	RunNo: 3	5988								
Prep Date:	7/25/2016	Analysis D	Date: 7/	26/2016	5	SeqNo: 1	115490	Units: mg/h	(g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene		ND	0.025												
Toluene		ND	0.050												
Ethylhonzono		ND	0.050												
Ethylbenzene															
Xylenes, Total		ND	0.10												

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

Page 6 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

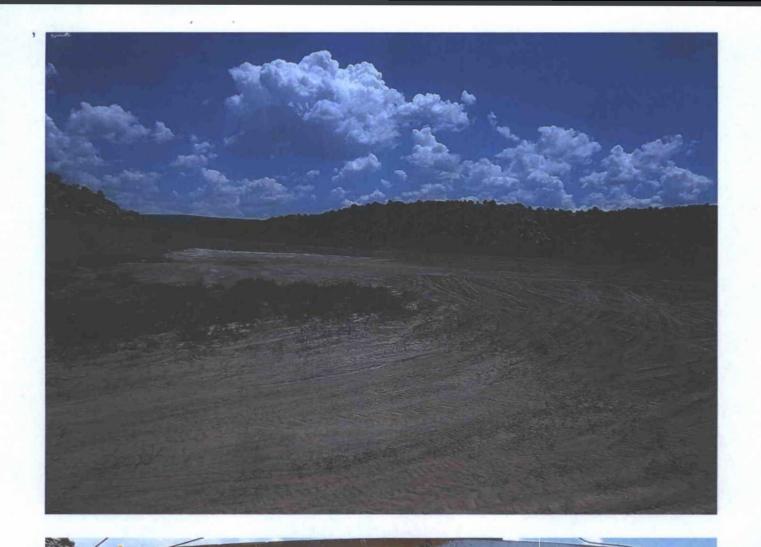


Hali Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL; 505-345-3975 FAX; 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name Animas Environmental Work Order Numb	er: 1607C16		RoptNo: 1				
Received by/date 0.4 23 110							
Logged By: Lindsay Mangin 7/23/2016 8:30:00 A	м	of the					
Completed By: Lindsay Mangin 7/25/2016 8:15:16 A	М	A HAGO					
Reviewed By: a 3 07 (25/16		000					
Chain of Custody							
1. Custody seals intect 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				
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗆	for pH: (<2 or >12 unless noted				
13. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗌	Adjusted?				
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 Wnom: Via:	eMail	Phone Fax	_ In Person				
Regarding:							
Client Instructions:							
17. Additional remarks:							
18. Cooler Information							
Ccoler No Temp *C Condition Seal Intact Seal No	Seal Date	Signed By					
1 1.8 Good Yes							

Ch	Chain-of-Custody Record Client: Animas Environmental Services, LLC			Turn-Around Time:				HALL ENVIRONMENTAL									
Client:	Animas	Enviro	nmental Services, LLC		□ Rusi	h	-			A	NAL	YSI	S L	ABO	RATO	RY	
				Project Name: COPC San Juan 30-6 Unit 438S Project #: Project Manager:				www.hallenvironmental.com									
Mailing Ad	dress:	604 W	Pinon St.					4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107									
		Farmin	gton, NM 87401														
Phone #:	505-564	-2281						Analysis Request									
Email or Fa	ax#:	eskyles@	animasenvironmental.com					10									
QA/QC Package: X Standard				E. Skyles			A 8015	1									
Accreditati	Accreditation:		Sampler: SG				- EPA										
□ NELAP	The state of the s			On Ice:	Yes	□ No	m	30)								=	-
□ EDD (T	ype)			Sample Temp	erature: /	8	121	M/C	0	=						1 2	5
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX - EPA 8021B	TPH (GRO/DRO/MRO)	Chlorides - 300.0	TPH - EPA 418.1						Air Bubbles (V or M)	All bubbies (1
7/22/16	10:42	SOIL	BGT SC-1	1 - 4oz jar	cool	-001	x	Х	X	X							
													+				
												H	+				
<u> </u>									- /				1		11	\perp	
Date:	Time:	Relinquished by: Relinquished by: Relinquished by:		Received by: Date Time 722/11 /1228 Received by: Date Time			Remarks: Bill to Conoco Phillips WO #10375179 Supervisor: Mike Murphy USERID: Area: 5										
122/11	1941	11	Yall. nitted to Hall Environmental may be su	Propherited to other		3/6 0830	Ord	ered			y Spean		a since	a national	an the cont of		



BURLINGTON

SAN JUAN 30-6 UNIT #438S FORMATION FRC

LATITUDE N 36° 49.6 LONGITUDE W 107° 24.5

1260' FSL 715' FEL
SEC. 12 T030N R006W
LEASE NO. USA SF-080713 ELEV. 6186
API NO. 30-039-27752
RIO ARRIBA COUNTY, NEW MEXICO