Form C-144 Revised June 6, 2013

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.
Senta Fa. NM 87505

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.

\$6000 120 - 1500 (market transport transport #14 to 1500 (market transport t	Sailla Fe, NW 87303	to the appropriate NMOCD District Office.
13927 Proposed Alter	Pit, Below-Grade Tank, or native Method Permit or Closur	e Plan Application
Type of action: ☐ Below g ☐ Permit of Closure ☐ Modific	grade tank registration of a pit or proposed alternative method of a pit, below-grade tank, or proposed alter ation to an existing permit/or registration plan only submitted for an existing permitte	RECEIVED By Rvillalobos at 8:59 am, Dec 30, 2015 native method
Instructions: Please submit one	application (Form C-144) per individual pit, be	low-grade tank or alternative request
		ult in pollution of surface water, ground water or the le governmental authority's rules, regulations or ordinances.
Operator: ConocoPhillips Company OGRID Address: PO BOX 4289, Farmington, NM 874		
Facility or well name: SAN JUAN 29-6 UNIT 17		
API Number:30-039-07702	OCD Permit Number:	2-3
U/L or Qtr/Qtr B Section 1 Towns	hip <u>29 N</u> Range <u>6 W</u> County	r: <u>Rio Arriba</u>
Center of Proposed Design: Latitude36.7584	<u>686 •N</u> Longitude <u>-107.4104996 •W</u> NAI	D: □1927 ⊠ 1983
Surface Owner: ☐ Federal ☐ State ☒ Private ☐	Tribal Trust or Indian Allotment	
2. □ Pit: Subsection F, G or J of 19.15.17.11 NM Temporary: □ Drilling □ Workover □ Permanent □ Emergency □ Cavitation □ □ □ Lined □ Unlined Liner type: Thickness □ String-Reinforced Liner Scams: □ Welded □ Factory □ Other	P&A	ner
3. Subsection I of 19.15.17 Volume: 120 bbl Type Tank Construction material: Metal Secondary containment with leak detection Visible sidewalls and liner Visible sidew Liner type: Thickness	of fluid: Produced Water	
4. Alternative Method: Submittal of an exception request is required. Ex	eceptions must be submitted to the Santa Fe Envir	ronmental Bureau office for consideration of approval.
5. Fencing: Subsection D of 19.15.17.11 NMAC (A	arbed wire at top (Required if located within 1000	

☐ Alternate. Please specify

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.	
<u>Variances and Exceptions:</u> 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	ntable source
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptant material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	otable 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
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	☐ Yes ☐ No
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	
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	☐ Yes ☐ No
Society; Topographic map	
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	☐ Yes ☑ No
from the ordinary high-water mark).	
- 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;. - 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,	<u> </u>
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	☐ Yes ☐ No
application. - 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. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No							
Temporary Pit Non-low chloride drilling fluid								
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No							
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image								
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								
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								
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 Attachment Checklist: Subsection B of 19.15.17.9 Natructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do 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 Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	NMAC 15.17.9 NMAC							
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 do 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 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: or Permit Number:	.15.17.9 NMAC							

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
Mydrogeologic 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 Preeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Erosion Control 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 Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Multi-well F Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only)	luid Management Pit
 ☐ On-site Closure Method (Only for temporary pits and closed-loop systems) ☐ In-place Burial ☐ On-site Trench Burial ☐ Alternative Closure Method 	
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	
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 sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. I 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
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
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	

2 200	☐ Yes ☐ No							
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division								
 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. - FEMA map								
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 19.15.17.13 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 Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC								
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 below the Name (Print): Title:								
Signature: Date:								
e-mail address: Telephone:								
e-mail address: Telephone:								
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)								
18.								
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)								
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 4/22/ Title: Supervisor 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 is required to be submitted to the division within 60 days of the completion of the closure activities. Please do no section of the form until an approved closure plan has been obtained and the closure activities have been completed.	16 g the closure report.							
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Square OCD Permit Number: 4/22/ Title: Supervisor 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 is required to be submitted to the division within 60 days of the completion of the closure activities. Please do no	16 g the closure report.							
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 4/22/ Title: Supervisor 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 is required to be submitted to the division within 60 days of the completion of the closure activities. Please do no section of the form until an approved closure plan has been obtained and the closure activities have been completed.	16 g the closure report. t complete this							

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): Kelly G. Roberts Title: Regulatory Technician
Signature: 2dl G. 2dt Date: 12/15/15
e-mail address:Kelly.Roberts@conocophillips.com Telephone: (505) 326-9775

ConocoPhillips Company San Juan Basin Below Grade Tank Closure Report

Lease Name: SAN JUAN 29-6 UNIT 17

API No.: 30-039-07702

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:

COPC shall close a below-grade tank within 60 days of cessation of operations per Subsection G.4 of 19.15.17.13
 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of
 Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five
 years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) an earlier
 date that the division requires because of imminent danger to fresh water, public health or the environment. For any
 closure, COPC 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.

COPC shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005), JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.

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

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

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

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

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

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

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

A release was not determined for the above referenced well.

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

The 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 of closure was not provided to the Aztec Division office between 72 hours and one week prior to closure.

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

The closure process notification to the landowner was not found

10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be 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. COPC shall seed the disturbed areas the first favorable growing season following closure of a below-grade tank. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will 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)

<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 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised August 8, 2011

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

Release Notification and Corrective Action

						OPERA	ГOR		☐ Initia	al Report	\boxtimes	Final Report
Name of Company ConocoPhillips Company						Contact Crystal Walker						
Address 340	Address 3401 East 30th St, Farmington, NM					Telephone No.(505) 326-9837						
Facility Nat	Facility Name: SAN JUAN 29-6 UNIT 17]	Facility Typ	e: Gas Well					
Surface Ow	Surface Owner Private Mineral Owner					'ederal			API No	.30-039-07	702	
				LOCA	TION	OF RE	LEASE					
Unit Letter	Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County											
	Latitude <u>36.7584686</u> Longitude <u>-107.4104996</u>											
				NAT	URE	OF REL	EASE					
Type of Rele						Volume of			Volume F			
Source of Re	lease					Date and F	Iour of Occurrenc	ce	Date and	Hour of Dis	covery	
Was Immedi	ate Notice G		Yes Γ	No Not Re	eauired	If YES, To	Whom?					
By Whom?					1	Date and H	Iour					
Was a Water	course Reac	hed?					olume Impacting t	the Wate	ercourse.			
			Yes 🛛 1	No								
N/A Describe Cat No release w	as encounte	ered during t	the BGT (Closure.								
Describe Are N/A	a Affected a	ind Cleanup A	Action Tak	en.								
regulations a public health should their	Il operators a or the envir operations ha nment. In ad	are required to onment. The ave failed to a ddition, NMC	o report ar acceptance adequately OCD accep	e is true and comp nd/or file certain r ce of a C-141 repo v investigate and r stance of a C-141	elease no ort by the emediate	otifications a e NMOCD m e contaminati	nd perform correct arked as "Final R on that pose a thr	ctive act Report" o reat to g	ions for relators not relators not relators not relators.	eases which ieve the ope r, surface wa	may er rator or ater, hu	ndanger f liability man health
Signature: Lange Tolk					OIL CONSERVATION DIVISION							
Printed Name: Kelly G. Roberts Approved by Environmental Specialist:												
Title: Regul	atory Techi	nician				Approval Da	te:	ě	Expiration	Date:		
E-mail Addr Date: 12/14*	5/15	Roberts@cop Phone: (505	5) 326-977	75		Conditions of Approval: Attached						



October 18, 2013

Crystal Tafoya ConocoPhillips San Juan Business Unit Office 214-05 5525 Hwy 64 Farmington, New Mexico 87401 www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

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

RE: Below Grade Tank Closure Report

San Juan 29-6 #17 Rio Arriba County, New Mexico

Dear Ms. Tafoya:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the below grade tank (BGT) closure at ConocoPhillips (CoP) San Juan 29-6 #17, located in Rio Arriba County, New Mexico. Tank removal had been completed by CoP contractors prior to AES' arrival at the location.

1.0 Site Information

1.1 Location

Site Name - San Juan 29-6 #17

Legal Description – NW¼ NE¾, Section 1, T29N, R6W, Rio Arriba County, New Mexico Well Latitude/Longitude – N36.75873 and W107.41106, respectively BGT Latitude/Longitude – N36.75860 and W107.41093, respectively Land Jurisdiction – Private

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, August 2013

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 location was given a ranking score of 10 based on the following factors:

- Depth to Groundwater: A cathodic report dated July 1993 reported the depth to groundwater as 230 feet below ground surface (bgs). (0 points)
- Wellhead Protection Area: The tank location is not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: An unnamed wash which discharges to
 Frances Creek is located approximately 440 feet west of the location. (10 points)

1.3 BGT Closure Assessment

AES was initially contacted by Fred Martinez, CoP representative, on August 13, 2013, and on August 14, 2013, Deborah Watson and Corwin Lameman of AES mobilized to the location. AES personnel collected six soil samples from below the BGT liner. Four samples were collected from the perimeter of the BGT footprint, one sample was collected from the center of the BGT footprint, and one sample was composited from the four perimeter samples and one center sample.

2.0 Soil Sampling

On August 14, 2013, AES personnel conducted field screening and collected five soil samples (S-1 through S-5) and one 5-point composite (SC-1) from below the BGT. Soil samples were collected from approximately 0.5 feet below the former BGT for field screening of volatile organic compounds (VOCs) and total petroleum hydrocarbon (TPH). Soil sample SC-1 was field screened for VOCs and chloride and was submitted for confirmation laboratory analysis. Soil sample locations are included on Figure 2.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

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

2.1.3 Chlorides

Soil sample 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 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 SC-1 was laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B;
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D; and
- Chloride per USEPA Method 300.0.

2.3 Field and Laboratory Analytical Results

Field screening readings for VOCs via OVM ranged from 0.3 ppm in S-1 up to 2.0 ppm in SC-1. Field TPH concentrations ranged from 63.3 mg/kg in S-2 up to 82.4 mg/kg in S-1 and S-5. The field chloride concentration in SC-1 was 80 mg/kg. Field screening results are summarized in Table 1 and presented on Figure 2. The AES Field Screening Report is attached.

Table 1. Soil Field Screening VOCs, TPH, and Chloride Results San Juan 29-6 #17 BGT Closure, August 2013

Sample ID	Date Sampled	Depth below BGT (ft)	VOCs OVM Reading (ppm)	Field TPH (418.1) (mg/kg)	Field Chlorides (mg/kg)
NMOCD Action	Level (NMAC 19).15.17.13E)		100	250
S-1	8/14/2013	0.5	0.3	82.4	NA
S-2	8/14/2013	0.5	1.3	63.3	NA
S-3	8/14/2013	0.5	0.8	67.4	NA
S-4	8/14/2013	0.5	1.1	79.7	NA
S-5	8/14/2013	0.5	1.7	82.4	NA
SC-1	8/14/2013	0.5	2.0	NA	80

NA - not analyzed

Laboratory analytical results reported benzene and total BTEX concentrations in SC-1 as less than 0.050 mg/kg and 0.25 mg/kg, respectively. TPH concentrations as GRO and DRO were reported at less than 5.0 mg/kg and 10 mg/kg, respectively. 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. Laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results San Juan 29-6 #17 BGT Closure. August 2013

Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)	Chlorides (mg/kg)
NMOCD Action	Level (NMAC 19.15	.17.13E)	0.2	50	1	00	250
SC-1	8/14/2013	0.5	<0.050	<0.25	<5.0	<10.0	<30

NA - Not Analyzed

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 were below the NMOCD action level of 100 mg/kg, with the highest concentrations reported in S-1 and S-5 with 82.4 mg/kg. Laboratory analytical results for TPH (as GRO/DRO) in SC-1 were reported below the NMOCD action level of 100 mg/kg. Benzene and total BTEX concentrations in SC-1 were below the NMOCD action levels of 0.2 mg/kg and 50 mg/kg, respectively. Chloride concentrations in SC-1 were below the NMOCD action level of 250mg/kg. Based on field screening and laboratory analytical results for benzene, total BTEX, TPH, and chlorides, no further work is recommended at San Juan 29-6 #17.

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

Sincerely,

David Reese

Environmental Scientist

Dail & Reve

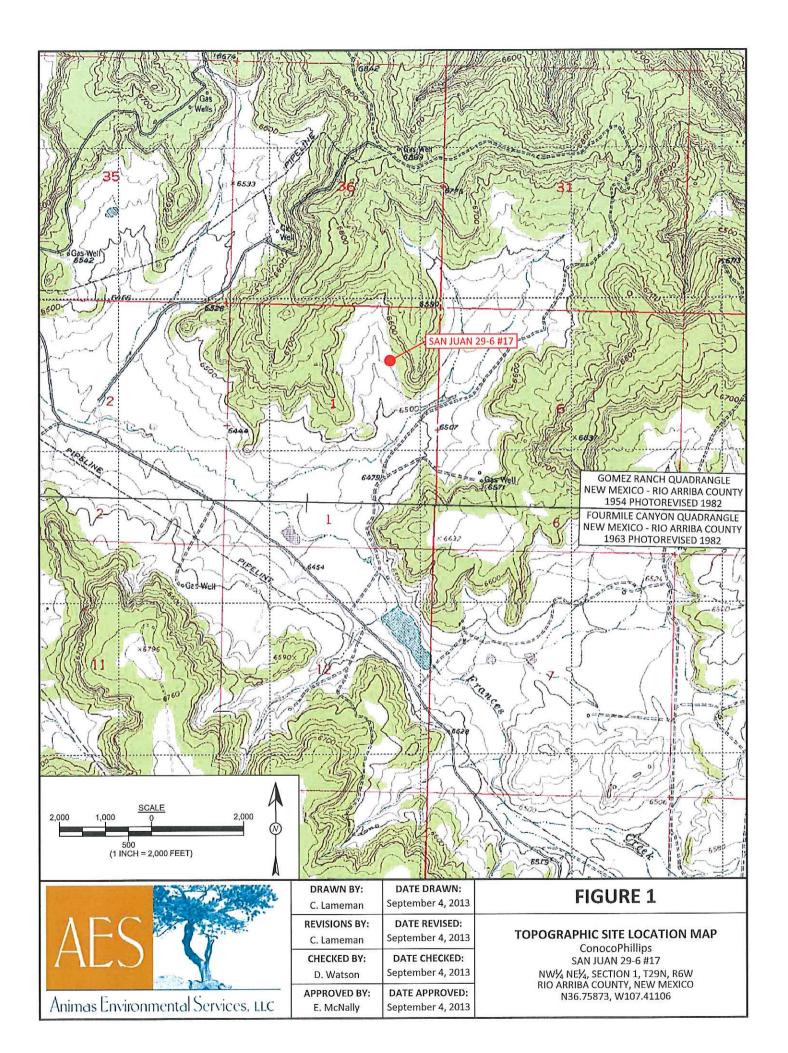
Crystal Tafoya San Juan 29-6 #17 BGT Closure Report October 18, 2013 Page 5 of 5

Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, August 2013 AES Field Screening Report 081413 Hall Analytical Report 1308645

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\SJ 29-6 #17\Electronic Report\CoP San Juan 29-6 #17 BGT Closure Report 101813.docx



LEGEND

SAMPLE LOCATIONS

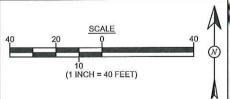
	Field Scre	eening R	esults		
Sample ID	Date	OVM- PID (ppm)	418.1 TPH (mg/kg)	Chlorides (mg/kg)	
NMOCD AC	TION LEVEL	3	100	100 250	
S-1	8/14/13	0.3	82.4	NA	
S-2	8/14/13	1.3	63.3	NA	
S-3	8/14/13	0.8	67.4	NA	
S-4	8/14/13	1.1	79.7	NA	
S-5	8/14/13	1.7	82.4	NA	
SC-1	8/14/13	2.0	NA	80	

SC-1 IS A 5-PC	INT CO	OMPOS	SITE SAN	MPLE OF S	-1
THROUGH S.	NIA -	NOT A	NALV7E	D	

Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	Chlorides (mg/kg)
V LEVEL	0.2	50	10	250	
/14/13	<0.050	<0.25	<5.0	<10	<30
	V <i>LEVEL</i> /14/13	Date (mg/kg) V LEVEL 0.2 /14/13 <0.050	Date (mg/kg) BTEX (mg/kg) V LEVEL 0.2 50 /14/13 <0.050	Date (mg/kg) BTEX (mg/kg) GRO (mg/kg) V LEVEL 0.2 50 10 /14/13 <0.050	Date (mg/kg) BTEX (mg/kg) GRO (mg/kg) DRO (mg/kg) V LEVEL 0.2 50 100

SAN JUAN 29-6 #17 WELL MONUMENT —





AERIAL SOURCE: © 2013 MICROSOFT CORPORATION - AVAILABLE EXCLUSIVELY BY DIGITALGLOBE

150	
ALS	
,	- L
Animas Environ	mental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: September 4, 2013	
REVISIONS BY: C. Lameman	DATE REVISED: September 4, 2013	
CHECKED BY: D. Watson	DATE CHECKED: September 4, 2013	
APPROVED BY: E. McNally	DATE APPROVED: September 4, 2013	

AERIAL SITE MAP BELOW GRADE TANK CLOSURE AUGUST 2013 ConocoPhillips

FIGURE 2

ConocoPhillips
SAN JUAN 29-6 #17
NW¼ NE¼, SECTION 1, T29N, R6W
RIO ARRIBA COUNTY, NEW MEXICO
N36.75873, W107.41106

AES Field Screening Report

Animas Environmental Services, 11.C

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

Durango, Colorado 970-403-3084

Project Location: San Juan 29-6 #17

Client: ConocoPhillips

Date: 8/14/2013 Matrix: Soil

		Time of			Field	Field TPH				TPH
	Collection	Sample	Sample	OVM	Chloride	Analysis	Field TPH*	TPH PQL		Analysts
Sample ID	Date	Collection	Location	(bbm)	(mg/kg)	Time	(mg/kg)	(mg/kg)	DF	Initials
S-1	8/14/2013	9:58	North	0.3	NA	10:00	82.4	20.0	1	DAW
S-2	8/14/2013	9:30	South	1.3	NA	10:02	63.3	20.0	1	DAW
S-3	8/14/2013	9:32	East	0.8	NA	10:04	67.4	20.0	1	DAW
S-4	8/14/2013	9:34	West	1.1	NA	10:06	79.7	20.0	П	DAW
S-5	8/14/2013	9:36	Center	1.7	NA	10:08	82.4	20.0	П	DAW
SC-1	8/14/2013	9:39	Composite	2.0	80		Noti	Not Analyzed for TPH.	H.	

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with Practical Quantitation Limit

Silver Nitrate

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

Not Detected at the Reporting Limit Not Analyzed ND AN

PQL

Dilution Factor

*Field TPH concentrations recorded may be below PQL.



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

August 16, 2013

Debbie Watson Animas Environmental 624 East Comanche Farmington, NM 87401 TEL: (505) 486-4071

FAX

RE: COP San Juan 29-6 #17

OrderNo.: 1308645

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/15/2013 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 1308645

Date Reported: 8/16/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Project: COP San Juan 29-6 #17

Lab ID: 1308645-001 Client Sample ID: SC-1

Collection Date: 8/14/2013 9:39:00 AM

Matrix: MEOH (SOIL) Received Date: 8/15/2013 10:10:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/15/2013 2:07:49 PM	8877
Surr: DNOP	81.7	63-147	%REC	1	8/15/2013 2:07:49 PM	8877
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	:: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/15/2013 11:12:19 AM	R12646
Surr: BFB	87.9	80-120	%REC	1	8/15/2013 11:12:19 AM	R12646
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.050	mg/Kg	1	8/15/2013 11:12:19 AM	R12646
Toluene	ND	0.050	mg/Kg	1	8/15/2013 11:12:19 AM	R12646
Ethylbenzene	ND	0.050	mg/Kg	1	8/15/2013 11:12:19 AM	R12646
Xylenes, Total	ND	0.10	mg/Kg	1	8/15/2013 11:12:19 AM	R12646
Surr: 4-Bromofluorobenzene	106	80-120	%REC	1	8/15/2013 11:12:19 AM	R12646
EPA METHOD 300.0: ANIONS					Analyst	:: JRR
Chloride	ND	30	mg/Kg	20	8/15/2013 12:54:48 PM	8881

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Η
- NDNot Detected at the Reporting Limit
 - Not Detected at the Reporting Limit Page 1 of 5 Sample pH greater than 2 for VOA and TOC only. P
- Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308645

16-Aug-13

Client:

Animas Environmental

Project:

COP San Juan 29-6 #17

Sample ID MB-8881

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 8881

RunNo: 12669

Prep Date: 8/15/2013

Analysis Date: 8/15/2013 PQL

SeqNo: 360956

Units: mg/Kg

RPDLimit

HighLimit

Qual

Analyte Chloride

Result ND

Result

15

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID:

Sample ID LCS-8881

LCSS 8/15/2013

Batch ID: 8881 Analysis Date: 8/15/2013 RunNo: 12669 SeqNo: 360957

SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg

HighLimit

RPDLimit

Analyte

SPK value SPK Ref Val %REC

99.7

90

110

Chloride

Prep Date:

PQL 1.5

15.00

LowLimit

%RPD

%RPD

Qual

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range Ε

Analyte detected below quantitation limits J

0 RSD is greater than RSDlimit

RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits S

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded Н

ND Not Detected at the Reporting Limit

Sample pH greater than 2 for VOA and TOC only. Reporting Detection Limit RL

Page 2 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308645

16-Aug-13

Client:

Animas Environmental

Project:

COP San Juan 29-6 #17

Troject.	un suan 25 0 n	17										
Sample ID LCS-8877	SampTyp	oe: LC	S	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics			
Client ID: LCSS	Batch I	D: 887	7	F	RunNo: 1:	2645						
Prep Date: 8/15/2013	Analysis Dat	te: 8/	15/2013	8	SeqNo: 3	60387	Units: mg/k	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	46	10	50.00	0	92.5	77.1	128					
Surr: DNOP	3.4		5.000		68.3	63	147					
Sample ID MB-8877	SampTyr	oe: MB	LK	Tes	tCode: El	A Method	8015D: Dies	el Range (Organics			
Client ID: PBS	Batch I	D: 887	77	RunNo: 12645								
Prep Date: 8/15/2013	Analysis Dat	te: 8/	15/2013	S	SeqNo: 3	60388	Units: mg/k					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	ND	10										
Surr: DNOP	7.7		10.00		77.4	63	147					

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 3 of 5

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308645

16-Aug-13

Client: Project: Animas Environmental COP San Juan 29-6 #17

Sample ID 5ML RB

Client ID: PBS

SampType: MBLK Batch ID: R12646

PQL

5.0

TestCode: EPA Method 8015D: Gasoline Range RunNo: 12646

%REC

Prep Date: Analyte

Result

Analysis Date: 8/15/2013

SegNo: 360865

Units: mg/Kg HighLimit

RPDLimit

Qual

Gasoline Range Organics (GRO) Surr: BFB

ND 900

1000

89.7

80

LowLimit

LowLimit

LowLimit

74.5

80

%RPD

%RPD

Sample ID 2.5UG GRO LCS Client ID: LCSS

SampType: LCS Batch ID: R12646

PQL

RunNo: 12646

TestCode: EPA Method 8015D: Gasoline Range

120

Prep Date:

Analysis Date: 8/15/2013

0

0

SPK value SPK Ref Val

SPK value SPK Ref Val

SeqNo: 360866

%REC

Units: mg/Kg

HighLimit

126

120

RPDLimit

Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

Sample ID 1308645-001AMS

22 5.0 960

Result

25.00 1000

95.5

87.2

TestCode: EPA Method 8015D: Gasoline Range

Client ID: SC-1

Batch ID: R12646

SampType: MS

RunNo: 12646

Prep Date:

Analysis Date: 8/15/2013 PQL

5.0

SeqNo: 360868 %REC

97.6

Units: mg/Kg

120

HighLimit %RPD **RPDLimit** 156

Qual

Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

450

Result

11

11.66 466.2

SPK value SPK Ref Val

96.9

TestCode: EPA Method 8015D: Gasoline Range

Client ID: SC-1

Sample ID 1308645-001AMSD

Batch ID: R12646

RunNo: 12646

76

80

Prep Date:

Analysis Date: 8/15/2013

SeqNo: 360876

Units: mg/Kg

Analyte Gasoline Range Organics (GRO)

SPK value SPK Ref Val PQL Result 11 5.0

SampType: MSD

11.66

%REC 90.7

76

HighLimit 156

%RPD **RPDLimit** 7.35

17.7

0

Surr: BFB

460

466.2

0

97.7

80

LowLimit

120

0

Qualifiers:

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

- Value above quantitation range Ε
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits R

- H Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit ND
- Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit RL
- Analyte detected in the associated Method Blank
- Page 4 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1308645

16-Aug-13

Client: Project:

Animas Environmental COP San Juan 29-6 #17

Sample ID 5ML RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBS** Batch ID: R12646 RunNo: 12646 Prep Date: Analysis Date: 8/15/2013 SeqNo: 360894 Units: mg/Kg %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result PQL SPK value SPK Ref Val Qual Benzene ND 0.050 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 106 80 120 Surr: 4-Bromofluorobenzene 1.1 1.000

Sample ID 100NG BTEX LCS SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: R12646 RunNo: 12646 SeqNo: 360895 Prep Date: Analysis Date: 8/15/2013 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene 1.1 0.050 1.000 0 106 80 120 Toluene 1.0 0.050 1.000 0 103 80 120 1.000 0 105 80 120 Ethylbenzene 0.050 1.0 Xylenes, Total 3.2 0.10 3.000 0 105 80 120 1.000 108 80 120 Surr: 4-Bromofluorobenzene 1.1

Sample ID 1308644-001AMS TestCode: EPA Method 8021B; Volatiles SampType: MS Client ID: BatchQC Batch ID: R12646 RunNo: 12646 Prep Date: Analysis Date: 8/15/2013 SeqNo: 360898 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result PQL 0.83 0.050 0.8052 0.004050 102 67.3 145 Benzene 0.050 0.8052 0.009751 99.3 66.8 144 Toluene 0.81 103 61.9 153 Ethylbenzene 0.85 0.050 0.8052 0.02231 149 Xylenes, Total 2.7 0.10 2.416 0.1589 104 65.8 0.8052 120 Surr: 4-Bromofluorobenzene 0.92 114 80

Sample ID 1308644-001AN	I SD SampT	ype: MS	SD	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: BatchQC	Batch	n ID: R1	2646	F	RunNo: 1	2646				
Prep Date:	Analysis D	ate: 8/	15/2013	8	SeqNo: 3	60899	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.74	0.050	0.8052	0.004050	91.9	67.3	145	10.7	20	
Toluene	0.73	0.050	0.8052	0.009751	89.9	66.8	144	9.85	20	
Ethylbenzene	0.78	0.050	0.8052	0.02231	94.7	61.9	153	8.06	20	
Xylenes, Total	2.4	0.10	2.416	0.1589	94.6	65.8	149	8.94	20	
Surr: 4-Bromofluorobenzene	0.95		0.8052		119	80	120	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Work Order Number: 1308645 RcptNo: 1 Client Name: Animas Environmental Received by/date: Ashley Gallegos 8/15/2013 10:10:00 AM Logged By: 8/15/2013 10:17:49 AM Completed By: Ashley Gallegos Reviewed By: 08/8/13 Chain of Custody No 🗆 Not Present 🗸 Yes 1. Custody seals intact on sample bottles? No 🗌 Yes 🗸 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In NA 🗍 No 🗌 Yes V 4. Was an attempt made to cool the samples? NA 🗆 No 🗆 Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes 🗸 6. Sample(s) in proper container(s)? Yes 🗸 No 🗌 7 Sufficient sample volume for indicated test(s)? No Yes V 8. Are samples (except VOA and ONG) properly preserved? NA 🗌 No V Yes 9. Was preservative added to bottles? No VOA Vials No 🗆 10. VOA vials have zero headspace? No 🗸 11. Were any sample containers received broken? # of preserved bottles checked No 🗌 for pH: V 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 13. Are matrices correctly identified on Chain of Custody? Yes V No 14. Is it clear what analyses were requested? No 🗌 Checked by: Yes 🗸 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) NA V Yes No 🗌 16. Was client notified of all discrepancies with this order? Person Notified: Date: eMail Phone Fax In Person By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date

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4 1	ANALYSIS LABORATORY																								- 3-5] H
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