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.

		Santa i e, ivivi	37505 to the uppi	ophate Ninoed District office.				
	Propo	Pit, Below-Grade osed Alternative Method Permi		olication				
14269	Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method							
	Instructions: Ple	ase submit one application (Form C-144) per i	ndividual pit, below-grade tank o	or alternative request				
environment. Nor		equest does not relieve the operator of liability shows the operator of its responsibility to comply with an						
Operator: But	lington Resources		OGRID #: 14538					
	BOX 4289, Farming		Odiab					
Salaria Maria	name: <u>HUERFAN</u>							
		OCD Permit Number:						
		ion 32 Township 27N Range 10W Cou						
		e <u>36.53699</u> <u>"N</u> Longitude <u>-107.91222</u> "W	A #					
		☐ Private ☐ Tribal Trust or Indian Allotment						
2.								
Pit: Subse	ection F, G or J of 19	.15.17.11 NMAC						
	Drilling Worko							
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		avitation 🗌 P&A 🔲 Multi-Well Fluid Manag						
Lined L	Inlined Liner type:	Thicknessmil LLDPE HDPE	PVC Other					
String-Rein								
Liner Seams:	☐ Welded ☐ Factor	ry Other Volu	ıme:bbl Dimensions: L	_x Wx D				
	120	I of 19.15.17.11 NMAC bbl Type of fluid:Produced Water Metal	by 19.15.17.13 N	eed Standards outline MAC. Please submit a inder 19.15.29 NMAC				
☐ Secondary	containment with lea	k detection 🛛 Visible sidewalls, liner, 6-inch	lift and automatic overflow shut-	off				
		Visible sidewalls only Other						
Liner type: Thi	ckness	mil HDPE PVC Other	UNSPECIFIED					
4. Alternative								
Submittal of an	exception request is	required. Exceptions must be submitted to the	Santa Fe Environmental Bureau o	office for consideration of approval.				
5. Fencing: Subs	ection D of 19.15.17.	11 NMAC (Applies to permanent pits, temporar	y pits, and below-grade tanks)					
Chain link, sinstitution or ch		strands of barbed wire at top (Required if locat	ed within 1000 feet of a permane	nt residence, school, hospital,				

du

Page 1 of 6

☐ Alternate. Please specify

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

 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. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptance are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable 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 ☐ NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☐ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. 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	☐ Yes ☐ No						
Within 300 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Permanent Pit or Multi-Well Fluid Management Pit							
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No						
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docattached. 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 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	NMAC 15.17.9 NMAC						
11.							
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docattached. 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:	.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					
### Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H₂S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC						
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 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						
14.						
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					
Fround 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 NA						
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa ake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site						
Vithin 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						
Vithin 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence to the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site						
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No					
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No					
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance						

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality							
	☐ Yes ☐ No						
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No						
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 							
Within a 100-year floodplain FEMA map	Yes No						
	100 110						
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							
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 bel	ief.						
Name (Print): Title:							
Signature: Date:							
e-mail address: Telephone:							
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	See Front						
18.	See Front						
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	See Front						
OCD Approval: Permit Application (including closure plan) Closure Plan (only) COCD Conditions (see attachment) OCD Representative Signature: Approval Date: 04-05- Title: Environmental Specialist OCD Permit Number: 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	See Front 2016 the closure report.						
OCD Approval: Permit Application (including closure plan) Closure Plan (only) COCD Conditions (see attachment) OCD Representative Signature: Environmental Specialist OCD Permit Number: 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 The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not	See Front 2016 the closure report.						
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Environmental Specialist OCD Permit Number: 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: March 20, 2012	See Front 2016 the closure report. complete this						

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): Kelly G. Roberts Title: Regulatory Technician
Signature: Date: 1/1/16
e-mail address: Kelly.Roberts@conocophillips.com Telephone: (505) 326-9775

Page 6 of 6

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

Lease Name: HUERFANO UNIT #15

API No.: 30-045-06187

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 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.
- 2. The below-grade tank referenced above was permitted and closed within 60 days of cessation of the below-grade tanks operation.
- 3. 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.
- 4. 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.

5. 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.

6. BR 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.

7. A five point composite sample was taken of the below-grade tank using sampling tools and all samples tested per Subsection B of 19.15.17.13 (B)(1)(b). (Sample results 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 300.1	250

8. 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.

- 10. 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 was not found

11. 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 not found.

12. 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.

13. 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.

14. 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.

- 15. 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 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

Submit 1 Copy to appropriate District Office in 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

			Rele	ease Notific	eatic	on and Co	rrective A	ction		
						OPER	ATOR	☐ Ini	tial Report	
Owned Su	bsidiary	of Conocc	Phillips	es, a Wholly Company		Contact Ashley Maxwell				
Address 340			ington, I	NM 87402			No. 505-324-51	69		
Facility Nan	Facility Name Huerfano Unit #15						e Gas Well			
Surface Own	ner State			Mineral C	wner	State		API No	. 300450618	87
LOCATION OF RELEASE										
Unit Letter	Unit Letter Section Township Range Feet from the Nort					th/South Line	Feet from the	East/West Line		County
A	32	27N	10W	790'		NORTH	790'	EAST	5	San Juan
			L	atitude36.5			e107.91193_			
T6D-1	TT-1			NAT	URI	E OF RELI				
Type of Relea			k				Release—Unkno lour of Occurrence		Hour of Disc	overv
						Unknown				
Was Immedia	te Notice (Yes	No Not Re	quirec	If YES, To	Whom?			
By Whom?				to the second se	70.7	Date and H	lour			
Was a Watero	ourse Read	SHOW STORY	Yes 🗆	No		If YES, Volume Impacting the Watercourse.				
If a Watercou	rse was Im									
11 a Watercou	rse was im	pacied, Desci	ioc i uny.							
Describe Cau	se of Proble	em and Reme	dial Action	n Taken.* Below	Grad	le Tank Closu	re Activities	_		
Describe Area	a Affected a	and Cleanup A	Action Tak	en.*						
confirming the sample	a release was ther	; however, n transporte	the regued to the	latory standard lab and analyt	d for o	closure at the esults for BT	s site was dete EX and Chloric	nod 418.1 for T ermined to be 5 des were below refore no furthe	,000 ppm. the regula	Additionally, tory standards
regulations al public health should their o or the environ	I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.									
OIL CONSERVATION DIVISION Signature:						N				
Printed Name	: Ashley N	Aaxwell				Approved by	Environmental Sp	pecialist:		
Title: Field H	Environme	ntal Specialis	t			Approval Dat	e:	Expiration 1	Date:	
E-mail Addre	ss: ashley.	p.wethington	@conoco	phillips.com		Conditions of Approval: Attached				
	Date: April 24, 2012 Phone: 505-324-5169 Attach Additional Sheets If Necessary									



April 10, 2012

Ashley Maxwell ConocoPhillips San Juan Business Unit Office 216-2 5525 Hwy 64 Farmington, NM 87401 www.animasenvironmental.com

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

> Durango, Colorado 970-403-3274

RE: Huerfano #15 Below Grade Tank Closure and Release Report San Juan County, New Mexico

Dear Ms. Maxwell:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the below grade tank (BGT) closure and release confirmation at ConocoPhillips (CoP) Huerfano #15, located in San Juan County, New Mexico. Tank removal was completed by CoP contractors while AES was on site.

1.0 Site Information

1.1 Location

Site Name – Huerfano #15
Legal Description - NE¼ NE¼, Section 32, T27N, R10W, San Juan County, New Mexico
Well Latitude/Longitude – N36.53686 and W107.91233, respectively
BGT Latitude/Longitude - N36.53699 and W107.91222, respectively
Land Jurisdiction – New Mexico State Land

Figure 1 - Topographic Site Location Map

Figure 2 - General Site Map, March 2012

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and no prior ranking information was located. Additionally, the New Mexico Office of the State Engineer (NMOSE) database was reviewed, and no registered water wells are located within 1,000 feet of the location. Once on site, AES personnel furthered assessed the ranking using topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site was greater than 100 feet below ground surface (bgs), the location is not within a well-head protection area, and the distance to the

nearest surface water was greater than 1,000 feet. The site was assessed a NMOCD ranking of zero.

1.3 BGT Closure Assessment

AES was initially contacted by Bruce Yazzie, CoP representative, on March 20, 2012, and on the same day Corwin Lameman and Tami Ross of AES met Bruce Yazzie at the location.

AES personnel collected six soil samples from the 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 March 20, 2012, 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 S-1 through S-5 were collected from approximately 6 inches below the former BGT for field screening of volatile organic compounds (VOCs), total petroleum hydrocarbon (TPH), and chlorides. Soil sample SC-1 was submitted for confirmation laboratory analysis. Soil sample locations are included on Figure 2.

2.1 Soil 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 samples were field screened for chlorides using Chloride Drop Count Titration with silver nitrate. Sampling and analysis methods followed procedures provided by Hach Company.

2.2 Soil Laboratory Analyses

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

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

2.3 Soil Field and Laboratory Analytical Results

Field screening for VOCs via OVM showed readings ranging from 6.8 ppm in S-1 up to 256 ppm in S-2. Field TPH concentrations ranged from 109 mg/kg in S-1 up to 7,420 mg/kg in S-2. Field chlorides were between 40 and 100 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
Huerfano #15 BGT Closure, March 2012

Sample ID	Date Sampled	Depth below BGT (ft)	VOCs OVM Reading (ppm)	Field TPH (mg/kg)	Field Chlorides (mg/kg)
NMOCD Action L	evel (NMAC 19.	15.17.13E)		100	250
S-1	03/20/12	0.5	6.8	109	80
S-2	03/20/12	0.5	256	7,420	80
S-3	03/20/12	0.5	125	365	40
S-4	03/20/12	0.5	8.6	133	40
S-5	03/20/12	0.5	172	7,090	100

Laboratory analytical results showed that the benzene and total BTEX concentrations in SC-1 were below laboratory detection limits of 0.10 mg/kg and 0.50 mg/kg, respectively. TPH concentrations were reported below laboratory detection limits of 10 mg/kg GRO, and concentrations of DRO were reported at 680 mg/kg. The laboratory chloride concentration was reported at 230 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, Huerfano #15 BGT Closure, March 2012

Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)	TPH- GRO (mg/kg)	GRO DRO		
	NMOCD Acti (NMAC 19.15		0.2	50	100/	5,000*	250	
SC-1	03/20/12	0.5	<0.10	<0.50	<10	680	230	

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

3.0 Conclusions

3.1 BGT Closure

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. Benzene concentrations in SC-1 were below the laboratory detection limit of 0.10 mg/kg, and total BTEX concentrations were below the NMOCD action level of 50 mg/kg in SC-1 (<0.50 mg/kg). Field TPH concentrations exceeded the NMOCD action level of 100 mg/kg in all of the samples, S-1 through S-5. TPH as GRO/DRO exceeded the NMOCD threshold of 100 mg/kg with 680 mg/kg. Chloride concentrations for all samples were below the NMOCD action level of 250 mg/kg. Based on field screening and laboratory analytical results for benzene, BTEX, TPH, and chlorides, a release was confirmed at the Huerfano #15 BGT location.

3.2 Release Confirmation

NMOCD action levels for releases are specified NMOCD's *Guidelines for Leaks, Spills, and Releases* (August 1993). Soil laboratory analyses showed that benzene, BTEX, and chloride concentrations were below the NMOCD action levels for SC-1. The TPH concentrations as GRO and DRO were below the NMOCD action level of 5,000 mg/kg in SC-1 with 680 mg/kg. No further work is recommended at the Huerfano #15 release location.

Ashley Maxwell Huerfano #15 BGT Closure and Release Report April 10, 2012 Page 5 of 5

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

Sincerely,

Tami C. Ross, CHMM Project Manager

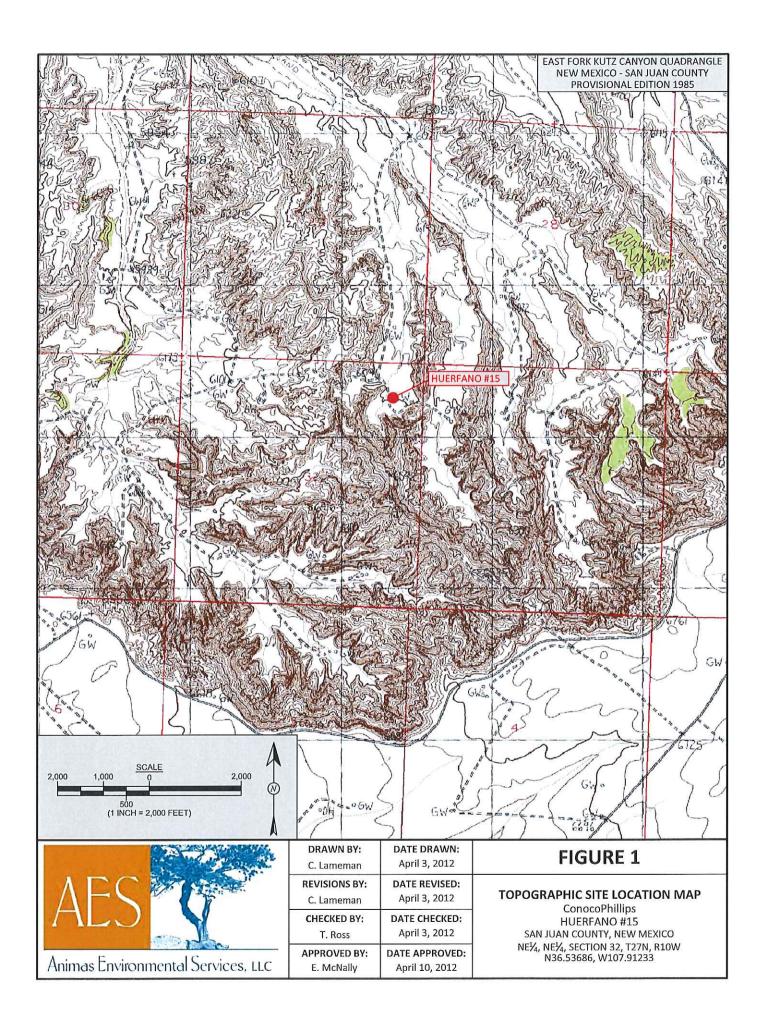
Elizabeth McNally, P.E.

Elizabeth V MiNelly

Attachments:

Figure 1. Topographic Site Location Map Figure 2. General Site Map, March 2012 AES Field Screening Report 032012 Hall Analytical Report 1203749

S:\Animas 2000\2012 Projects\Conoco Phillips\Huerfano #15\Huerfano #15 BGT Assessment Report 041012.docx





SAMPLE LOCATIONS

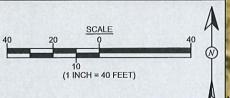
	FIELD SC	REENIN	IG RESUL	rs
SAMPLE ID	DATE	OVM- PID (ppm)	TPH (mg/kg)	CHLORIDES (mg/kg)
NMOCI	ACTION LEVEL	NE	100	250
S-1	3/20/12	6.8	109	80
S-2	3/20/12	256	7,420	80
S-3	3/20/12	125	365	40
S-4	3/20/12	8.6	133	40
S-5	3/20/12	172	7,090	100

LABORATORY ANALYTICAL RESULTS									
SAMPLE ID DATE BENZENE Mg/kg) TOTAL BTEX (mg/kg) TPH - DRO (mg/kg) (mg/kg) (mg/kg) (mg/kg)									
NMOCD ACTION LEVEL 0.2 50 100 250					250				
SC-1	3/20/12	<0.10	<0.50	<10	680	230			
NOTE: ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B, 8015B AND 300.0.									

NOTE: ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B, 8015B AND 300.0. SC-1 IS A 5 POINT COMPOSITE SAMPLE OF S-1 THROUGH S-5.



HUERFANO #15 WELLHEAD



MAP SOURCE: (c) 2012 PICTOMETRY INTERNATIONAL CORP. ONLINE, AERIAL TAKEN: FEBRUARY 22, 200
DRAWN BY:
DATE DRAWN:



Animas Environmental Services, LLC

C. Lameman	April 3, 2012
REVISIONS BY: C. Lameman	DATE REVISED: April 3, 2012
CHECKED BY: T. Ross	DATE CHECKED: April 3, 2012
APPROVED BY: E. McNally	DATE APPROVED: April 10, 2012

FIGURE 2

GENERAL SITE MAP BELOW GRADE TANK CLOSURE MARCH 2012

MARCH 2012
ConocoPhillips
HUERFANO #15
SAN JUAN COUNTY, NEW MEXICO
NE¾, NE¾, SECTION 32, T27N, R10W
N36.53686, W107.91233

AES Field Screening Report



Animas Environmental Services. LLC

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

Durango, Colorado 970-403-3274

Date: 3/20/2012

Client: ConocoPhillips

Project Location: Huerfano #15

	Matrix: Soil	Soil						4/0-00-07/4	4/70
					Time of				
	Collection	Collection	OVM	Chloride	Sample	Field TPH*	TPH PQL		TPH Analysts
Sample ID	Date	Time	(mdd)	mg/kg	Analysis	(mg/kg)	(mg/kg)	DF	Initials
S-1	3/20/2012	13:10	8.9	80	13:49	109	20.0	П	TCR
S-2	3/20/2012	13:11	256	80	14:00	7,420	200	10	TCR
S-3	3/20/2012	13:12	125	40	14:07	365	20.0	1	TCR
S-4	3/20/2012	13:13	8.6	40	14:11	133	20.0	1	TCR
S-5	3/20/2012	13:14	172	100	14:20	7,090	200	10	TCR
SC-1	3/20/2012	13:17		Z	A-Sample subn	NA-Sample submitted for laboratory analysis	atory analysis		

Total Petroleum Hydrocarbons - USEPA 418.1

Practical Quantitation Limit PQL ND DF NA

Not Detected at the Reporting Limit

Dilution Factor

Not Analyzed

Analyst:

Somi Raza



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

March 26, 2012

Ross Kennemer Animas Environmental Services 624 East Comanche Farmington, NM 87401

TEL: (505) 564-2281 FAX (505) 324-2022

RE: Huerfano #15

OrderNo.: 1203749

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/21/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1203749

Date Reported: 3/26/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: Huerfano #15

Collection Date: 3/20/2012 1:17:00 PM

Lab ID: 1203749-001

Matrix: MEOH (SOIL) Received Date: 3/21/2012 9:59:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE O	RGANICS				Analyst: JMP
Diesel Range Organics (DRO)	680	10	mg/Kg	1	3/21/2012 10:56:05 AM
Surr: DNOP	110	77.4-131	%REC	1	3/21/2012 10:56:05 AM
EPA METHOD 8015B: GASOLINE RANG	iΕ				Analyst: NSB
Gasoline Range Organics (GRO)	ND	10	mg/Kg	2	3/21/2012 11:52:02 AM
Surr: BFB	93.5	69.7-121	%REC	2	3/21/2012 11:52:02 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.10	mg/Kg	2	3/21/2012 11:52:02 AM
Toluene	ND	0.10	mg/Kg	2	3/21/2012 11:52:02 AM
Ethylbenzene	ND	0.10	mg/Kg	2	3/21/2012 11:52:02 AM
Xylenes, Total	ND	0.20	mg/Kg	2	3/21/2012 11:52:02 AM
Surr: 4-Bromofluorobenzene	97.3	80-120	%REC	2	3/21/2012 11:52:02 AM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	230	30	mg/Kg	20	3/21/2012 1:42:18 PM

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1203749

26-Mar-12

Client:

Animas Environmental Services

Project:

Huerfano #15

Sample ID MB-1175

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 1175

RunNo: 1595

Prep Date: Analyte

3/21/2012

Analysis Date: 3/21/2012

SeqNo: 44769

Units: mg/Kg HighLimit

%RPD **RPDLimit**

Qual

Chloride

ND 1.5

PQL

Sample ID LCS-1175

3/21/2012

SampType: LCS

TestCode: EPA Method 300.0: Anions

Prep Date:

Client ID: LCSS Batch ID: 1175

RunNo: 1595

Units: mg/Kg

Analysis Date: 3/21/2012

1.5

SeqNo: 44770 SPK value SPK Ref Val %REC

SPK value SPK Ref Val %REC LowLimit

LowLimit

HighLimit

%RPD **RPDLimit**

Analyte

Result

90.9

Qual

90

110

14

15.00

Chloride

PQL

Qualifiers:

R

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits RPD outside accepted recovery limits

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND Reporting Detection Limit

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1203749

26-Mar-12

Client:

Animas Environmental Services

Project:

Huerfano #15

Sample ID LCS-1169	SampT	ype: LC	s	Tes	Code: El	PA Method	8015B: Dies	el Range (Organics	
Client ID: LCSS	Batch	ID: 11	69	F	tunNo: 1	561				
Prep Date: 3/21/2012	Analysis D	ate: 3/	21/2012	S	eqNo: 4	4685	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.1	62.7	139			
Surr: DNOP	4.8		5.000		96.6	77.4	131			

Sample ID '	1203662-013AMS	SampTy	pe: MS	3	Tes	tCode: El	PA Method	8015B: Diese	el Range C	Organics	
Client ID:	BatchQC	Batch	ID: 11	69	F	RunNo: 1	808				
Prep Date:	3/21/2012	Analysis Da	ite: 3/	22/2012	S	SeqNo: 4	5648	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Or	rganics (DRO)	34	10	50.10	0	68.3	57.2	146		3173 474	
Surr: DNOP		5.1		5.010		101	77.4	131			

Sample ID	1203662-013AMSD	SampTy	/pe: MS	SD	Tes	tCode: El	PA Method	8015B: Diese	el Range C	Organics	
Client ID:	BatchQC	Batch	ID: 11	69	R	tunNo: 1	608				
Prep Date:	3/21/2012	Analysis Da	ate: 3/	22/2012	S	SeqNo: 4	5649	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	36	10	50.81	0	70.1	57.2	146	3.96	26.7	
Surr: DNOP		4.8		5.081		94.6	77.4	131	0	0	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1203749

26-Mar-12

Client:

Animas Environmental Services

Project:

Huerfano #15

Sample ID B 32	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015B: Gaso	oline Rang	e	
Client ID: PBS	Batcl	n ID: R1	589	F	RunNo: 1	589				
Prep Date:	Analysis D	ate: 3/	21/2012	8	SeqNo: 4	5224	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0	, n = =							
Surr: BFB	950		1.000		95.1	69.7	121			

Sample ID 2.5UG GRO LCS	SampT	ype: LC	s	Test	Code: El	PA Method	8015B: Gaso	line Rang	е	
Client ID: LCSS	Batch	ID: R1	589	R	tunNo: 1	589				
Prep Date:	Analysis D	ate: 3/	21/2012	S	eqNo: 4	5225	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	98.5	133			
Surr: BFB	1,000		1,000		101	69.7	121			

Sample ID 1203689-001A MS	SampT	ype: MS	3	Tes	tCode: El	PA Method	8015B: Gaso	line Rang	е	
Client ID: BatchQC	Batch	1D: R1	589	R	RunNo: 1	589				
Prep Date:	Analysis D	ate: 3/	21/2012	S	SeqNo: 4	5232	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	85.4	147			
Surr: BFB	1,000		1,000		101	69.7	121			

Sample ID 1203689-0	001A MSD SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015B: Gaso	line Rang	е	
Client ID: BatchQC	Batch	1D: R1	589	F	RunNo: 1	589				
Prep Date:	Analysis D	ate: 3/	21/2012	S	SeqNo: 4	5234	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (G	GRO) 26	5.0	25.00	0	104	85.4	147	7.40	19.2	
Surr: BFB	1,000		1,000		101	69.7	121	0	0	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1203749

26-Mar-12

Client: Animas Environmental Services

Project: Huerfano #15

Sample ID B 32	Samp1	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batcl	n ID: R1	589	R	RunNo: 1	589				
Prep Date:	Analysis E	ate: 3/	21/2012	S	SeqNo: 4	5253	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.7	80	120			

Sample ID 1203749-001A N	IS Samp	Туре: М	3	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: SC-1	Bato	h ID: R1	589	F	RunNo: 1	589				
Prep Date:	Analysis I	Date: 3/	21/2012	S	SeqNo: 4	5256	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2.0	0.10	2.000	0	97.6	67.2	113			
Toluene	2.0	0.10	2.000	0	99.4	62.1	116			
Ethylbenzene	2.0	0.10	2.000	0	99.0	67.9	127			
Xylenes, Total	6.0	0.20	6.000	0	99.8	60.6	134			
Surr: 4-Bromofluorobenzene	2.0		2.000		101	80	120			

Sample ID 1203749-001A N	/ISD SampT	ype: MS	3D	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: SC-1	Batch	i ID: R1	589	F	RunNo: 1	589				
Prep Date:	Analysis D	ate: 3/	21/2012	8	SeqNo: 4	5258	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.8	0.10	2.000	0	89.8	67.2	113	8.34	14.3	
Toluene	1.8	0.10	2.000	0	91.5	62.1	116	8.30	15.9	
Ethylbenzene	1.8	0.10	2.000	0	91.9	67.9	127	7.35	14.4	
Xylenes, Total	5.6	0.20	6.000	0	92.7	60.6	134	7.40	12.6	
Surr: 4-Bromofluorobenzene	2.0		2.000		102	80	120	0	0	

Sample ID 100NG BTEX LO	CS Samp1	Гуре: LC	S	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batcl	Batch ID: R1589			RunNo: 1589					
Prep Date:	Analysis E	Date: 3/	21/2012	5	SeqNo: 4	5282	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.050	1.000	0	97.2	83.3	107			
Toluene	0.99	0.050	1.000	0	99.2	74.3	115			
Ethylbenzene	0.99	0.050	1.000	0	99.2	80.9	122			
Xylenes, Total	3.0	0.10	3.000	0	100	85.2	123			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 5 of 5



Hall Environmental Analysis Laboratory '4901 Hawkins NI: Albuquerque, NAI 87105 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: Animas Environmental Work Order Number: 1203749 Received by/date: ACA Logged By: Lindsay Mangin 3/21/2012 9:59:00 AM 3/21/2012 10:04:22 AM Completed By: Lindsay Mangin Reviewed By: Chain of Custody No Not Present > 1. Were seals intact? 2. Is Chain of Custody complete? Yes No Not Present 3. How was the sample delivered? Courier Log In NA 4. Coolers are present? (see 19. for cooler specific information) No 5. Was an attempt made to cool the samples? NA NA 6. Were all samples received at a temperature of >0° C to 6.0°C No Yes 7. Sample(s) in proper container(s)? No Yes 8. Sufficient sample volume for indicated test(s)? No 9 Are samples (except VOA and ONG) properly preserved? No No NA 10 Was preservative added to bottles? Yes 11. VOA vials have zero headspace? Yes No No VOA Vials ✓ 12. Were any sample containers received broken? No Yes # of preserved No 13. Does paperwork match bottle labels? Yes bottles checked (Note discrepancies on chain of custody) for pH: 14. Are matrices correctly identified on Chain of Custody? No (<2 or >12 unless noted) Adjusted? 15. Is it clear what analyses were requested? No 16. Were all holding times able to be met? (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) 17. Was client notified of all discrepancies with this order? Yes No NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 1 18, Additional remarks: 19 Cooler Information Cooler No Temp °C Condition Seal Intact Seal No

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	BTEX + MTBE + TPH (Gas only) BTEX + MTBE + TPH (Gas only) TPH Method 8015B (Gas/Diesel) TPH (Method 418.1) EDB (Method 504.1) B310 (PNA or PAH) RCRA 8 Metals Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) ROB1 Pesticides / 8082 PCB's 8081 Pesticides / 8082 PCB's 8260B (VOA) 8270 (Semi-VOA) CAOAI CA	N	SWARZ SWARZ WSBLZ
Sevices Standard Krush Ame DAVE Project Name: Haler Funds Haler Haler	Idation) Ross Kenneth Ross Sampler: TRMM Ross Sampler: TRMM Ross Sampler: TRMM Ross Type and # Type Preservative Preserva	Received by: Amuth, Waster, 32/12/162	Received by: (C) Date T
Chain-of-Custody Record Client: Animos Environmentel Sevil Mailing Address: Leay & Consurche Record & Consurche Formure for NH 187401 Phone #: 505 5 25 5 30 6 1	email or Fax#: \nccentral \alpha \alpha \chinqua \alpha \range \alpha \r	Spoliz 13th Sult Se-1 Date: Time: Relinquished by: Con	



