District I

1625 N. French Dr., Hobbs, NM 88240

District II

811 S. First St., Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144 Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or

THE DETON STATE THINK, OF	
Proposed Alternative Method Permit or Closure Plan Applicati	
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,	
or proposed alternative method	, below-grade tank,
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or altern	entive request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's	water, ground water or the
Operator: ConocoPhillips Company OGRID #: 217817	
Address: PO BOX 4289, Farmington, NM 87499	
Facility or well name: <u>HAMNER 3E</u>	
API Number:30-045-24800	
U/L or Qtr/Qtr M Section 29 Township 29N Range 9W County: San Juan	
Center of Proposed Design: Latitude <u>36.69229 ∘N</u> Longitude <u>-107.80993 ∘W</u> NAD: □1927 ⊠ 1983	
Surface Owner: ☑ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment	
☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other ☐ String-Reinforced Liner Seams: ☐ Welded ☐ Factory ☐ Other Volume:bbl Dimensions: L x W	
3.	
Below-grade tank: Subsection I of 19.15.17.11 NMAC	
Volume: 120 bbl Type of fluid: Produced Water	
Tank Construction material: Metal	
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other	
Liner type: Thickness45mil	
4. Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office f	for consideration of approval.
5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residentitution or church)	dence, school, hospital,
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
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	
Signed in compliance with 17.13.10.0 NAME	
8. Variances and Exceptions:	
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
Please check a box if one or more of the following is requested, if not leave blank:	
Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.	
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
0	
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 acce	eptable source
material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	
Companyal attiture	
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.	☐ Yes ☐ No
- ■ NM Office of the State Engineer - iWATERS database search; ■ USGS; ■ Data obtained from nearby wells	⊠ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.	☐ Yes ☐ No
NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	⊠ NA
Within incompressed municipal boundaries or within a defined municipal fresh water well field account under a municipal antiques	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks)	Yes No
 Written confirmation or verification from the municipality; Written approval obtained from the municipality 	
Within the area overlying a subsurface mine. (Does not apply to below grade tanks)	□ Vas□ Na
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	☐ 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	☐ Yes ☒ No
from the ordinary high-water mark).	LI TES NO
 Topographic map; Visual inspection (certification) of the proposed site 	
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.	☐ Yes ⊠ No
 NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole,	☐ Yes ☐ No
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	
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.	☐ Yes ☐ No
NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes No
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 doc 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 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
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 doc 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	15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:	

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	documents are
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) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method	luid Management Pit
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	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	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	
Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan 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 19.15.17.13 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 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 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	11 NMAC 15.17.11 NMAC
17. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believed.	ef.
Name (Print): Title:	
Name (Print):	
Signature: Date: e-mail address: Telephone:	
Signature: Date: e-mail address: Telephone:	
Signature: Date: e-mail address: Telephone:	
Signature:	6, 2016 the closure report.
Signature:	the closure report.

Operator Closure Certification:		
I hereby certify that the information and attachments sub belief. I also certify that the closure complies with all ap		
	Title: Regulatory Coordinator	
Signature: Solal Wal	lee Date	= 7/11/2016
e-mail address: <u>crystal,walker@cop.com</u> Telep	phone: (505) 326-9837	

ConocoPhillips Company San Juan Basin Below Grade Tank Closure Report

Lease Name: Hamner 3E API No.: 30-045-24800

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.

3. 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.

 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		

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.

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 is attached.

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

10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.

The below-grade tank area was re-contoured to match fit, shape, line, form and texture of the surrounding area. Re-shaping including drainage control, to prevent ponding and erosion. Natural drainages were unimpeded and water bars and/or silt traps were placed in areas where needed to prevent erosion on a large scale. Final recontour has a uniform appearance with smooth surface, fitting the natural landscape.

11. 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)

Walker, Crystal

From:

Farrell, Larissa L

Sent:

Monday, March 14, 2016 3:29 PM

To:

Cory Smith; Katherina Diemer (kdiemer@blm.gov); mflanike@blm.gov;

Vanessa.Fields@state.nm.us

Cc:

GRP:SJBU Regulatory; SJBU E-Team; Gallegos, Dale M; Payne, Wendy F; Dixon, Shorell

(PAC)

Subject:

Hamner 3E (3004524800) 72 Hour BGT Closure Notification

Importance:

High

Subject: 72 Hour BGT Closure Notification

Anticipated Start Date: Monday March 21, 2016

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

Well Name: HAMNER 3E

API#: 30-045-24800

Unit M (SW/SW), Section 29, T29N, R9W, San Juan County, New Mexico

Footages: 970' FSL & 870' FWL

Operator:

ConocoPhillips

Surface Owner: Federal (SF-080245)

Larissa Farrell

Regulatory Technician San Juan Business Unit (505)326-9504 Office (918)662-6259 Fax



<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.

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

Form C-141 Revised August 8, 2011

			Rel	ease Notifi	cation	n and Co	orrective A	ction			
						OPERA'	ΓOR	In	tial Report	\boxtimes	Final Repo
		onocoPhillip					ystal Walker				
		th St, Farmin	gton, NN	1			No.(505) 326-98	337			
Facility Na	me: Hamn	er 3E				Facility Typ	e: Gas Well				
Surface Ow	ner BLM			Mineral	Owner I	BLM		API	lo. 30-045-	-24800	
				LOC	ATIO	N OF RE	LEASE				
Unit Letter M	Section 29	Township 29N	Range 9W	Feet from the	North	South Line	Feet from the	East/West Line	County San Juan	n	
		Latit	tude	36.69229		Longitude	-107.80993				
				NA'	TURE	OF REL	EASE				
Type of Rele	ase					Volume of	Release		Recovered		
Source of Re	lease					Date and I	Hour of Occurrence	ce Date ar	d Hour of Di	scovery	/
Was Immedi	ate Notice (Given?			_	If YES, To	Whom?				
was minicul	ate Notice (Yes [No Not R	Required	II TES, Te	whom:				
By Whom?						Date and I	Hour				
Was a Water	course Read					If YES, Vo	olume Impacting	the Watercourse.			
			Yes 🛛	No							
N/A	urse was Im	pacted, Descr	ibe Fully.	•							
		em and Reme tered during									
Describe Are	a Affected	and Cleanup	Action Tal	ken.*							
N/A											
							knowledge and u				
							nd perform correct arked as "Final R				
should their	operations h	ave failed to	adequately	investigate and	remediat	e contaminati	on that pose a thr	reat to ground wa	ter, surface w	vater, hu	ıman health
				otance of a C-141	report d	oes not reliev	e the operator of	responsibility for	compliance	with an	y other
rederai, state	, or local la	ws and/or regi	nations.				OIL CON	SERVATIO	V DIVISI	ON	
Signature:	0	10	, 1	01			OIL CON	BLRVAIIO	V DI VISI	OIV	
	9	Hal	W	elkee							
Printed Nam	e: Crystal V	Walker				Approved by	Environmental S	pecialist:			
Title: Regul	atory Coord	linator				Approval Da	te:	Expiratio	n Date:		
E-mail Addr	ess: c	rystal.walker(acop.com			Conditions of	Approval:		Attache	d 🔲	
Date: 7 1	1/2016	Phone: (50:	5) 326-983	37							
		ets If Necess									

Animas Environmental Services, LLC



April 13, 2016

Lisa Hunter ConocoPhillips San Juan Business Unit (505) 326-9786

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

RE: Below Grade Tank Closure Report

Hamner 3E

San Juan County, New Mexico

Dear Ms. Hunter:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the below grade tank (BGT) closure at ConocoPhillips (COPC) Hamner 3E, located in San Juan County, New Mexico. Tank removal was completed by COPC contractors while AES was on site.

1.0 Site Information

1.1 Location

Site Name – Hamner 3E

Legal Description – SW¼ SW¼, Section 29, T29N, R9W, San Juan County, New Mexico

Well Latitude/Longitude – N36.69212 and W107.80954, respectively

BGT Latitude/Longitude – N36.69229 and W107.80993, respectively

Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, March 2016

1.2 NMOCD Ranking

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

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

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

www.animasenvironmental.com

- Depth to Groundwater: A site-specific hydrogeology report dated September 2008 reported the depth to groundwater as 233 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: Unnamed washes which discharge to the San Juan River are located approximately 65 feet west and 145 feet southwest of the location. (20 points)

1.3 BGT Closure Assessment

AES was initially contacted by Lisa Hunter of COPC on March 16, 2016, and on March 21, 2016, Corwin Lameman of AES mobilized to the location. AES personnel collected one 5-point soil sample composited from four perimeter samples and one center sample of the BGT footprint from below the BGT liner.

2.0 Soil Sampling

On March 21, 2016, AES personnel conducted field sampling and collected one 5-point composite (BGT SC-1) from below the BGT. Soil was collected from approximately 0.5 feet below the former BGT. Soil sample BGT SC-1 was field screened for volatile organic compounds (VOCs), total petroleum hydrocarbon (TPH), and chloride, and was submitted for confirmation laboratory analysis. Soil sample locations are included on Figure 2.

2.1 Field Sampling

2.1.1 Volatile Organic Compounds

A portion of BGT SC-1 was utilized for field screening of VOC vapors with a photoionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.1.2 Total Petroleum Hydrocarbons

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

2.1.3 Chlorides

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

2.2 Laboratory Analyses

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

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

2.3 Field and Laboratory Analytical Results

Field screening readings for VOCs via OVM were measured at 0.9 ppm in BGT SC-1. Field TPH concentrations were reported at 32.5 mg/kg. The field chloride concentration was 40 mg/kg. Field sampling results are summarized in Table 1 and presented on Figure 2. The AES Field Sampling Report is attached.

Table 1. Soil Field VOCs, TPH, and Chloride Results Hamner 3E BGT Closure, March 2016

Sample ID	Date Sampled	Depth below BGT (ft)	VOCs OVM Reading (ppm)	Field TPH (mg/kg)	Field Chlorides (mg/kg)
NMOCD Action I	evel (NMAC 19.	15.17.13E)	-	100	250
BGT SC-1	3/21/16	0.5	0.9	32.5	40

Laboratory analytical results reported benzene and total BTEX concentrations in BGT SC-1 as less than 0.024 mg/kg and 0.213 mg/kg, respectively. TPH concentrations were reported at less than 19 mg/kg. The laboratory chloride concentration was reported below the laboratory detection limit of 30 mg/kg. Laboratory analytical results are summarized in Table 2 and included on Figure 2. The laboratory analytical report is attached.

Table 2. Soil Laboratory Analytical Results Hamner 3E BGT Closure, March 2016

Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH (mg/kg)	Chlorides (mg/kg)
	MOCD Action IMAC 19.15.		0.2	50	100	250
BGT SC-1	3/21/16	0.5	<0.024	<0.213	<19	<30

3.0 Conclusions and Recommendations

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. Field TPH concentrations in BGT SC-1 were below the NMOCD action level of 100 mg/kg, with a concentration reported at 32.5 mg/kg. Benzene and total BTEX concentrations were below the NMOCD action levels of 0.2 mg/kg and 50 mg/kg, respectively. Chloride concentrations in BGT SC-1 were below the NMOCD action level of 250 mg/kg. Based on field sampling and laboratory analytical results for benzene, total BTEX, TPH, and chlorides, no further work is recommended at Hamner 3E.

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

Sincerely,

David J. Reese

Environmental Scientist

Sinh ShL

David of Rem

Emilee Skyles

Geologist/Project Lead

Elizabeth McNally, P.E.

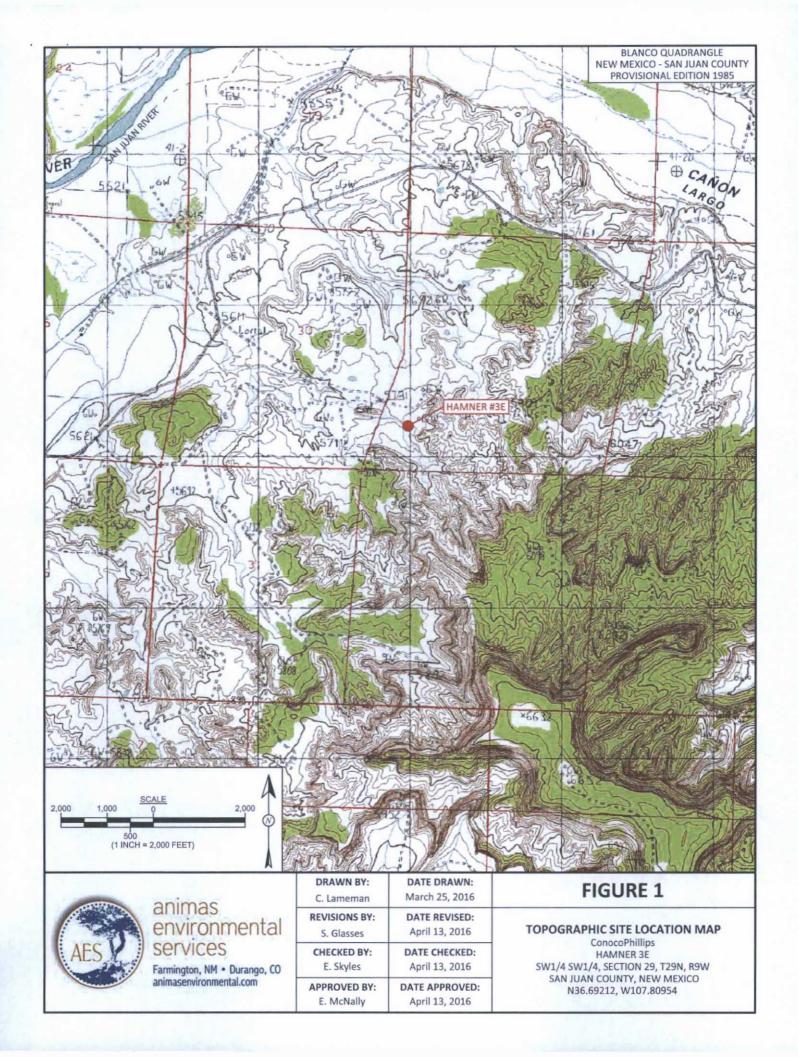
Elizabeth V MiNdly

Lisa Hunter Hamner 3E BGT Closure Report April 13, 2016 Page 5 of 5

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, March 2016 AES Field Sampling Report 032116 Hall Analytical Report 1603A63

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SAMPLE LOCATIONS

	Fiel	ld Samplir	ng Result	s	
Sample ID	Date	Depth (ft)	OVM- PID (ppm)	TPH (mg/kg)	Chlorides (mg/kg)
NΛ	OCD ACTION	ON LEVEL		100	250
BGT SC-1	3/21/16	0.5	0.9	32.5	40

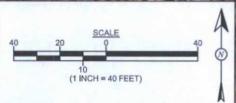
		Laborato	y Analytica	al Results		
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH (mg/kg)	Chlorides (mg/kg)
	VMOCD ACT	ION LEVEL	0.2	50	100	250
BGT SC-1	3/21/16	0.5	< 0.024	< 0.213	<19	<30
SAMPLE WAS	ANALYZED	PER USEPA	METHOD 8	021B, 418.1	AND 300.0.	

BGT SC-1 IS A 5-POINT COMPOSITE SAMPLE.

BGT SC-1

BGT - N36.69229 W107.80993

HAMNER 3E WELL MONUMENT



AERIAL SOURCE: © 2015 GOOGLE EARTH PRO, AERIAL DATE: MARCH 15, 2015

DRAWN BY: DATE DRAWN:



animas environmental services

Farmington, NM • Durango, CO animasenvironmental.com

C. Lameman	March 25, 2016
REVISIONS BY:	DATE REVISED:
S. Glasses	April 13, 2016
CHECKED BY:	DATE CHECKED:
E. Skyles	April 13, 2016
APPROVED BY:	DATE APPROVED:
E. McNally	April 13, 2016

FIGURE 2

AERIAL SITE MAP BELOW GRADE TANK CLOSURE MARCH 2016

ConocoPhillips HAMNER 3E SW1/4 SW1/4, SECTION 29, T29N, R9W SAN JUAN COUNTY, NEW MEXICO N36.69212, W107.80954

AES Field Sampling Report

Animas Environmental Services, LLC

Client: ConocoPhillips

Project Location: Hamner 3E

Date: 3/21/2016

Matrix: Soil

	Collection	Collection	Sample	OVM	Field Chloride	Field TPH*	Field TPH Analysis	TPH PQL		TPH Analysts
Sample ID	Date	Time	Location	(ppm)	(mg/kg)	(mg/kg)	Time	(mg/kg)	DF	Initials
BGT SC-1	3/21/2016	10:00	Composite	0.9	40	32.5	10:20	20.0	1	CL

DF

Dilution Factor

NA

Not Analyzed

PQL

Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL.

Field Chloride - Quantab Chloride Titrators or Drop Count

Titration with Silver Nitrate

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:



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

March 30, 2016

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

FAX

RE: COPC Hamner #3E

OrderNo.: 1603A63

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/22/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1603A63

Date Reported: 3/30/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Project: COPC Hamner #3E

Lab ID: 1603A63-001

Client Sample ID: BGT SC-1

Collection Date: 3/21/2016 10:00:00 AM

Received Date: 3/22/2016 7:05:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH					Analyst:	том
Petroleum Hydrocarbons, TR	ND	19	mg/Kg	1	3/23/2016	24376
EPA METHOD 300.0: ANIONS					Analyst:	LGT
Chloride	ND	30	mg/Kg	20	3/28/2016 3:45:34 PM	24483
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	3/23/2016 11:04:01 AM	24369
Toluene	ND	0.047	mg/Kg	1	3/23/2016 11:04:01 AM	24369
Ethylbenzene	ND	0.047	mg/Kg	1	3/23/2016 11:04:01 AM	24369
Xylenes, Total	ND	0.095	mg/Kg	1	3/23/2016 11:04:01 AM	24369
Surr: 4-Bromofluorobenzene	110	80-120	%Rec	1	3/23/2016 11:04:01 AM	24369

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 4
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1603A63

30-Mar-16

Client:

Animas Environmental

Project:

COPC Hamner #3E

Sample ID MB-24483

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 24483

RunNo: 33131

Prep Date: 3/28/2016

Sample ID LCS-24483

Analysis Date: 3/28/2016

PQL

1.5

SeqNo: 1017182

Units: mg/Kg

HighLimit

%RPD

%RPD

SPK value SPK Ref Val

SPK value SPK Ref Val %REC LowLimit

RPDLimit

Qual

Analyte Chloride

Result ND

SampType: LCS

TestCode: EPA Method 300.0: Anions

LCSS

Batch ID: 24483

RunNo: 33131

90

Units: mg/Kg

Prep Date: 3/28/2016 Analyte

Analysis Date: 3/28/2016

SeqNo: 1017183 %REC

HighLimit

RPDLimit

Qual

Chloride

Client ID:

110

14 1.5 15.00 0 93.1

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix S

Analyte detected in the associated Method Blank В

Value above quantitation range

Analyte detected below quantitation limits

Page 2 of 4

Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1603A63

30-Mar-16

Client:

Animas Environmental

Project:

COPC Hamner #3E

Sample ID MB-24376

SampType: MBLK

TestCode: EPA Method 418.1: TPH

Client ID: PBS

Batch ID: 24376

RunNo: 32998

Prep Date:

3/22/2016

Analysis Date: 3/23/2016

PQL

SeqNo: 1012162

Units: mg/Kg

%RPD **RPDLimit**

Qual

Analyte Petroleum Hydrocarbons, TR Result ND

20

SPK value SPK Ref Val %REC LowLimit

0

HighLimit

Sample ID LCS-24376

SampType: LCS

TestCode: EPA Method 418.1: TPH

Client ID: LCSS

Batch ID: 24376 Analysis Date: 3/23/2016

PQL

Batch ID: 24376

RunNo: 32998 SeqNo: 1012163

%REC

HighLimit

Units: mg/Kg

127

RPDLimit

Qual

Petroleum Hydrocarbons, TR

Client ID: LCSS02

Sample ID LCSD-24376

Prep Date: 3/22/2016

99

20 SampType: LCSD

TestCode: EPA Method 418.1: TPH

99.0

RunNo: 32998 SeqNo: 1012164

Units: mg/Kg

RPDLimit Qual

Analyte

Analyte

Prep Date: 3/22/2016

Analysis Date: 3/23/2016

SPK value SPK Ref Val %REC LowLimit 0

LowLimit

83.4

HighLimit %RPD

Petroleum Hydrocarbons, TR

100.0

100.0

103

20

100

SPK value SPK Ref Val

4.20

%RPD

Qualifiers:

R

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

Page 3 of 4

Sample pH Not In Range

RL

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603A63

30-Mar-16

Client:

Animas Environmental

Project:

COPC Hamner #3E

Sample ID MB-24369		Гуре: МЕ			TestCode: EPA Method 8021B: Volatiles									
Client ID: PBS	Batc	h ID: 24	369	F	RunNo: 3									
Prep Date: 3/22/2016	Analysis [Date: 3/	23/2016	5	SeqNo: 1	012945	Units: mg/K	(g		RPDLimit Qual				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	ND	0.025												
Toluene	ND	0.050												
Ethylbenzene	ND	0.050												
Xylenes, Total	ND	0.10												
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120							
Sample ID LCS-24369	Samp	Type: LC	s	Tes	tCode: El	PA Method	8021B: Volat	tiles						
Client ID: LCSS	Batc	Batch ID: 24369			RunNo: 3	3018								
Prep Date: 3/22/2016	Analysis [Date: 3/	23/2016	5	SegNo: 1	012946	Units: mg/K	(a						

Analysis D)ate: 3/	23/2016	9	continu	040040	11-11						
				SeqNo: 1	012946	Units: mg/K	g					
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
0.93	0.025	1.000	0	92.8	75.3	123						
0.92	0.050	1.000	0	92.4	80	124						
0.95	0.050	1.000	0	95.0	82.8	121						
2.8	0.10	3.000	0	93.5	83.9	122						
1.1		1.000		111	80	120						
	0.93 0.92 0.95 2.8	0.93 0.025 0.92 0.050 0.95 0.050 2.8 0.10	0.93 0.025 1.000 0.92 0.050 1.000 0.95 0.050 1.000 2.8 0.10 3.000	0.93 0.025 1.000 0 0.92 0.050 1.000 0 0.95 0.050 1.000 0 2.8 0.10 3.000 0	0.93 0.025 1.000 0 92.8 0.92 0.050 1.000 0 92.4 0.95 0.050 1.000 0 95.0 2.8 0.10 3.000 0 93.5	0.93 0.025 1.000 0 92.8 75.3 0.92 0.050 1.000 0 92.4 80 0.95 0.050 1.000 0 95.0 82.8 2.8 0.10 3.000 0 93.5 83.9	0.93 0.025 1.000 0 92.8 75.3 123 0.92 0.050 1.000 0 92.4 80 124 0.95 0.050 1.000 0 95.0 82.8 121 2.8 0.10 3.000 0 93.5 83.9 122	0.93 0.025 1.000 0 92.8 75.3 123 0.92 0.050 1.000 0 92.4 80 124 0.95 0.050 1.000 0 95.0 82.8 121 2.8 0.10 3.000 0 93.5 83.9 122	0.93 0.025 1.000 0 92.8 75.3 123 0.92 0.050 1.000 0 92.4 80 124 0.95 0.050 1.000 0 95.0 82.8 121 2.8 0.10 3.000 0 93.5 83.9 122			

Sample ID 1603A63-001AM	s Samp	Type: MS	S	TestCode: EPA Method 8021B: Volatiles									
Client ID: BGT SC-1	Batc	h ID: 24	369	F	RunNo: 33018								
Prep Date: 3/22/2016	Analysis [Date: 3/	23/2016	S	SeqNo: 1	qNo: 1012948 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	1.0	0.023	0.9363	0	107	71.5	122						
Toluene	1.0	0.047	0.9363	0	110	71.2	123						
Ethylbenzene	1.1	0.047	0.9363	0	114	75.2	130						
Kylenes, Total	3.2	0.094	2.809	0	113	72.4	131						
Surr 4-Bromofluorobenzene	1.1		0.9363		116	80	120						

Sample ID 1603A63-001AN	ISD SampT	ype: MS	SD	Tes	tCode: E	PA Method	8021B: Vola	tiles				
Client ID: BGT SC-1	369	F	RunNo: 3	3018								
Prep Date: 3/22/2016	Analysis D	ate: 3/	23/2016	8	SeqNo: 1	012949	Units: mg/F	ng/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	1.1	0.024	0.9766	0	109	71.5	122	5.59	20			
Toluene	1.1	0.049	0.9766	0	111	71.2	123	5.42	20			
Ethylbenzene	1.1	0.049	0.9766	0	115	75.2	130	4.94	20			
Xylenes, Total	3.4	0.098	2.930	0	115	72.4	131	5.96	20			
Surr: 4-Bromofluorobenzene	1.2		0.9766		119	80	120	0	0			

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 4 of 4

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number	1603A63		RcptNo: 1
Received by/date: 0322 16			
Logged By: Lindsay Margin 3/22/2016 7:05:00 AM		July Hago	
Completed By: Lindsay Mangin 3/22/2016 8:51:35 AM		Analy Happy	
Reviewed By: 1 AA 03/22/11	0	000	
Chain of Custody	<u> </u>		
1. Custody seals intact on sample bottles?	Yes 🗌	No 🗆	Not Present ☑
2. Is Chain of Custody complete?	Yes ✓	No 🗆	Not Present
3. How was the sample delivered?	Courier		
Log In			
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗆	NA 🗆
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗆	
7. Sufficient sample volume for indicated test(s)?	Yes 🗸	No 🗌	
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗆	
9. Was preservative added to bottles?	Yes 🗆	No 🗹	NA 🗆
10.VOA vials have zero headspace?	Yes	No 🗆	No VOA Vials ☑
11. Were any sample containers received broken?	Yes	No 🗹	# of preserved
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗆	for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗸	No 🗌	Adjusted?
14. Is it clear what analyses were requested?	Yes 🗹	No 🗆	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗆	Checked by:
Special Handling (if applicable)			
16. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🗹
Person Notified: Date	******		
By Whom: Via:	eMail	Phone Fax	In Person
Regarding:			
Client Instructions:			
17. Additional remarks:			
18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No 1 1 1.1 Good Yes	Seal Date	Signed By	

Ch	ain-o	f-Cust	tody Record	Turn-Around	ime:					н	A I I	E	NV	TD	INC	MEI	MT	ΔI	
Client:	Animas	Enviror	nmental Services, LLC	X Standard	□ Rusi		_		_	The second second					BO				,
			Province in	Project Name:	The state of the s												10	KI	
Mailing Ad	dress.						www.hallenvironmental.com												
vialing Ad	01000.		Pinon St.	Dunlant #			4901 Hawkins NE - Albuquerque, NM 87109												
		Farming	gton, NM 87401	Project #:				Te	l. 50	5-34	5-397	-			-345-4	107			
Phone #:	505-564	-2281			COPC Hamn	er#3E						Analy	rsis F	Reque	est				
Email or Fa	ax#:	eskyles@	Danimasenvironmental.com	Project Manag	jer:														
QA/QC Pac	kage:				E. Skyles														
X Standar	rd		☐ Level 4 (Full Validation)																
Accreditati	ion:			Sampler: CL,												1			
□ NELAP	N.	□ Other		On ise								Ì							9
□ EDD (T	ype)	,	_	Sample Temp	erature: 2	ICHO A GUNDA		-	0.0										or N)
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	K - 8021B	TPH - EPA 418.1	Chlorides - 300.0										Air Bubbles (Y
						1603AL3	BTEX	TPH	Chlo										Air B
3/21/16	10:00	SOIL	BGT SC-1	2 - 4 oz.	cool	-001	X	X	Х			1					_	_	
	-							_				+	+	\vdash		+	+	+	\vdash
	 						-				+	+	+			+	+	+	+
																	\perp		
											1	+	+	\vdash		+	+	+	-
					-							+	+	+	H	+	+	+	+-
												1			\Box	1	丰		
Date:	Time:	Relinquish	ا سران	Redeived by:	Valt	3/21/14 1710	WO Sup	# 1 ervis	0385 or: [151 Dusty	Mars		ips						
Date: 3/21/14	Time: 1805	Relinquish	istu Welle	Received by	\$ 2 07	Date Time 122/16 (1705)	USERID: KGARCIA Area: 2 Ordered by: Lisa Hunter												

