Form C-144 Revised June 6, 2013

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 8750

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

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505	Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
12609 39-05988 Proposed Al	Pit, Below-Grade Tank, or ternative Method Permit or Closure	RECEIVED By OCD at 10:25 am, Jan 27, 2015 Plan Application
Type of action: Belo	ow grade tank registration mit of a pit or proposed alternative method sure of a pit, below-grade tank, or proposed alterna dification to an existing permit/or registration sure plan only submitted for an existing permitted of method it one application (Form C-144) per individual pit, below	or non-permitted pit, below-grade tank, w-grade tank or alternative request t in pollution of surface water, ground water or the
environment. Nor does approval relieve the operation	for of its responsibility to comply with any other applicable	governmental audiority's rules, regulations of ordinances.
Operator: Burlington Resources	OGRID #: 14538	
Address: PO BOX 4289, Farmingto	n, NM 87499	400001/50
Facility or well name:Harvey State 11	NOI	APPROVED
API Number: _3003905988	n, NM 87499 OCD Permit Number:	
U/L or Otr/Qtr N (SESW) Section_	16 Township 25N Range 6W County:	Rio Arriba
Center of Proposed Design: Latitude _36.395	05000 <u>N</u> Longitude <u>-107.47475000</u> <u>W</u>	NAD: ⊠1927 □ 1983
Surface Owner: ☐ Federal ☒ State ☐ Priva	te 🗌 Tribal Trust or Indian Allotment	
☐ Lined ☐ Unlined Liner type: Thickned☐ String-Reinforced		Other
Elifol Scalins.		pled for the Constituents as
Tank Construction material: Metal ☐ Secondary containment with leak detecti ☐ Visible sidewalls and liner ☐ Visible statement		5.17 NMAC (BTEX)
4. Alternative Method: Submittal of an exception request is required.	l. Exceptions must be submitted to the Santa Fe Enviror	nmental Bureau office for consideration of approval.
5. Fencing: Subsection D of 19.15.17.11 NM/	AC (Applies to permanent pits, temporary pits, and below	w-grade tanks) eet of a permanent residence, school, hospital,

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

institution or church)

Alternate. Please specify

6. Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other	
☐ Monthly inspections (If netting or screening is not physically feasible)	
7. Signs: Subsection C of 19.15.17.11 NMAC ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers ☐ Signed in compliance with 19.15.16.8 NMAC	
Variances and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9. 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 accept material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	table 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	☐ Yes ☐ No
application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No

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								
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site								
Permanent Pit or Multi-Well Fluid Management Pit								
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No							
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image								
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site								
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site								
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 Naturations: 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 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 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:	O NMAC							
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	9.15.17.9 NMAC							

12.							
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do	cuments are						
attached. ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC ☐ Climatological Factors Assessment ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC							
 Quality Control/Quality Assurance Construction and Installation Plan □ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC □ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC □ Nuisance or Hazardous Odors, including 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 Flu	id Management Pit						
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							
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC							
15.							
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Pl 19.15.17.10 NMAC for guidance.	ce material are lease refer to						
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA						
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No						
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA						
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site							
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 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							
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							
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.	☐ Yes ☐ No						
- FEMA map							
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure 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. 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 of Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	17.11 NMAC 19.15.17.11 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	belief.						
Name (Print): Title:							
Signature: Date:							
e-mail address: Telephone:							
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)							
OCD Representative Signatur Approval Date:	Mar 27, 2015						
OCD Representative Signatur NOTAPPROVED Title:Approval Date:							
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 submit							
The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 1/16/12	ting the closure report. not complete this						
The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do section of the form until an approved closure plan has been obtained and the closure activities have been completed.	not complete this						

Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure require	re report is true, accurate and complete to the best of my knowledge and rements and conditions specified in the approved closure plan.
Name (Print): Kenny Davis	Title: Staff Regulatory Technician
Signature:	Date: <u>12/3/14</u>
e-mail address: kenny.r.davis@conocophillips.com	Telephone: 505-599-4045

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

Lease Name: Harvey State 11

API No.: 3003905988

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure of the below-grade tank referenced above. All proper documentation regarding closure activities is being included with the C-144.

General Plan:

- 1. BR shall close a below-grade tank within 60 days of cessation of operations per Subsection G.4 of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- The below-grade tank referenced above was permitted and closed within 60 days of cessation of the below-grade tanks operation.
- 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 19.15.17.1 3(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 is missing due to employee turnovers. ConocoPhillips has reviewed our internal processes and has updated them to include the required 72 hour notification.

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. COPC was not aware that the original notification sent at the time of Permitting was not the only closure notification required.

ConocoPhillips has reviewed our internal processes and has updated them to include the required 72 hour notification.

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)

Closure Documentation was not submitted within the 60 day requirement due to employee turnovers. ConocoPhillips has reviewed our internal processes and has updated them to ensure closure documentation is submitted with the 60 day time frame.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

			11010	ascitotille				- ·	4.0		m: 1 m
						OPERATOR Initial Report Final Report					
Name of Co						Contact Kenny Davis					
Address 340			gton, NM			Telephone No.(505) 599-4045					
Facility Nan	Facility Name: Harvey State 11						e: Gas Well				
Surface Owner State Mineral Owner						tate		Lease	No. NM-01	2293	
							EACE				
			D			OF REI		East/WestLine	County		
Unit Letter Section Township Range Feet from the North/So South							Feet from the 1850	West WestLine	County Rio Arrib)a	
Latitude <u>36.39505000</u> Longitude <u>-107.4</u>							e <u>-107.4747500</u>	0			
				NAT	URE	OF REL	EASE				
Type of Rele	ase BGT C	losure Summa	arv	2 12.2			Release N/A	Volume	Recovered N	J/A	
Source of Re						Date and F	Iour of Occurrence	ce N/A Date and	l Hour of Dis	scovery	N/A
Was Immedia						If YES, To	Whom?				
			Yes] No 🛛 Not R	equired	N/A					
By Whom? N	I/A					Date and I-	Iour N/A				
Was a Water		ched?				If YES, Vo	olume Impacting	the Watercourse.			
N/A	A		☐ Yes	s 🛛 No		N/A					
If a Watercon	If a Watercourse was Impacted, Describe Fully.*										
N/A											···
							Cor	nstituents Exc	eed Stan	dards	outline
							by	19 15 17 13 N	IMAC PI	ease s	submit a
Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken.*		by 19.15.17.13 NMAC. Please submit a separate C-141 under 19.15.29 NMAC					
N/A							000		aridor 10.	10.20	Tuvi, to
Describe Arc	a Affected	and Cleanup	Action Ta	ken.*							
				N REMOVAL							
I hereby cert	ify that the	information g	iven abov	e is true and com	olete to the	he best of my	knowledge and	understand that pu	rsuant to NN	AOCD r	ules and
regulations a	Il operators	are required t	to report a	nd/or file certain	release n	otifications a	nd perform corre	ctive actions for r	eleases which	h may er	ndanger
public health	or the envi	ironment. The	e acceptan	ce of a C-141 rep	ort by th	e NMOCD n	narked as "Final I	Report" does not r	elieve the op	erator of	liability
should their	operations l	nave failed to	adequatel	y investigate and	remediat	e contaminat	ion that pose a th	reat to ground wa	er, surface w	ater, hu	man health
or the enviro	nment. In a	addition, NM(OCD acce	ptance of a C-141	report d	oes not relie	ve the operator of	responsibility for	compilance	with any	y otner
federal, state	, or local la	ws and/or reg	ulations.				OII CON	ISERVATIO	A DIMICI	ON	
	-	-					OIL CON	SERVATIO	N DI VISI	UN	
Signature:	//-	- Co									
						Approved by	District Supervi	sor:			
Printed Nam	e: Kenny I	Davis					1	Ti .			
T:41 - C4 - CC	D = = 1 - 4	Taabaisiss				Approval Da	ate:	Expiration	n Date:		
Title: Staff	Regulatory	1 echincian				Approvai De	iic.	Expiration	n Date.		
E-mail Addı	ess: Kenny	.r.davis@cond	cophillip	s.com		Conditions of	of Approval:		Attache	d \square	
							100000		Attache	ш	
Date: 12/3	/14 Phone	: (505) 599-40)45								



^{*} Attach Additional Sheets If Necessary



January 26, 2012

Shelly Cook-Cowden ConocoPhillips 3401 East 30th Street, Office #490 Farmington, NM 87402 www.animasenvironmental.com

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

> Durango, Colorado 970-403-3274

RE: Harvey State #11 Below Grade Tank Closure Report Rio Arriba County, New Mexico

Dear Ms. Cook-Cowden:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the below grade tank (BGT) closure at ConocoPhillips (CoP) Harvey State #11, located in Rio Arriba County, New Mexico. Tank removal was completed by CoP contractors while AES was on site.

1.0 Site Information

1.1 Location

The Harvey State #11 well site is located on New Mexico State land within the SE½ SW½, Section 16, T25N, R6W, Rio Arriba County, New Mexico. Latitude and longitude of the BGT were recorded as N36.39543° and W107.47544°, respectively. A topographic site location map is included as Figure 1, and an aerial map with the BGT location is included as Figure 2.

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) and New Mexico Office of the State Engineer (NMOSE) databases were reviewed, and no prior ranking information was located. Once on site, AES personnel assessed the ranking using known information of the area, topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site was less than 50 feet below ground surface (bgs); distance to the nearest surface water was greater than 1,000 feet; and the location is not within a well-head protection area. The Harvey State #11 is located in Largo Canyon and is approximately 1,530 feet west of Largo Wash.

1.2 Site Activities

AES was initially contacted by Doyle Clark, CoP representative, on January 16, 2012, and on the same day, Tami Ross and Corwin Lameman of AES met with Doyle Clark at the location.

AES personnel collected five soil samples from the below the BGT liner. Four samples were collected from the perimeter of the BGT footprint, and one sample was collected from the center of the BGT footprint.

2.0 Soil Sampling

On January 16, 2012, AES personnel conducted field screening and collected five soil samples (S-1 through S-5) from below the BGT. Soils samples were collected from approximately 6 inches below the former BGT for volatile organic compounds (VOCs), total petroleum hydrocarbon (TPH), and chloride field-screening. 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. VOC readings from each sample were 0.0 ppm. OVM measurement locations and readings are presented in Table 1 and on Figure 2.

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 any soil analyses. Field analytical protocol followed AES's Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1. TPH concentrations ranged from below detection limit (20.0 mg/kg) to 37.1 mg/kg, and TPH results are summarized in Table 1 and on Figure 2. The AES field screening report is attached.

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. Field tests results for chloride ranged from 40 mg/kg to 60 mg/kg. Confirmation soil samples were also collected and submitted for laboratory analysis.

Chloride field screening results are summarized in Table 1 and on Figure 2. The AES field screening report is attached.

2.2 Soil Laboratory Analyses

The five soil samples collected for laboratory analysis (S-1 through S-5) were 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. The soil samples were laboratory analyzed for:

Chlorides per EPA Method 300.0

2.3 Soil Field and Laboratory Analytical Results

Field and analytical laboratory results are summarized in the table below.

Table 1. Soil OVM, TPH, and Chlorides, Harvey State #11 BGT Closure, January 2012

Sample ID	Date Sampled	Depth below BGT (ft)	OVM Reading (ppm)	Field TPH (mg/kg)	Field Chlorides (mg/kg)	Laboratory Confirmation Chlorides (mg/kg)
NMC	OCD Action Level		100	1,000	250	250
S-1	12/29/11	0.5	0.0	<20.0	60	<30
S-2	12/29/11	0.5	0.0	<20.0	40	<30
S-3	12/29/11	0.5	0.0	37.1	40	<30
S-4	12/29/11	0.5	0.0	<20.0	40	<30
S-5	12/29/11	0.5	0.0	<20.0	40	<30

OVM readings, TPH and chloride concentrations for the five soil samples were either below laboratory detection limits or below applicable NMOCD action levels for contaminants of concern. Laboratory analytical reports are attached.

3.0 Conclusions

Based on field testing and laboratory analytical results for the soil samples collected on January 16, 2012, in association with the BGT closure for the Harvey State #11, soil concentrations are below applicable NMOCD action levels for contaminants of concern.

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.

Shelly Cook-Cowden Harvey State #11 BGT Closure Report January 26, 2012 Page 4 of 4

Sincerely,

Tami Ross, CHMM Project Manager

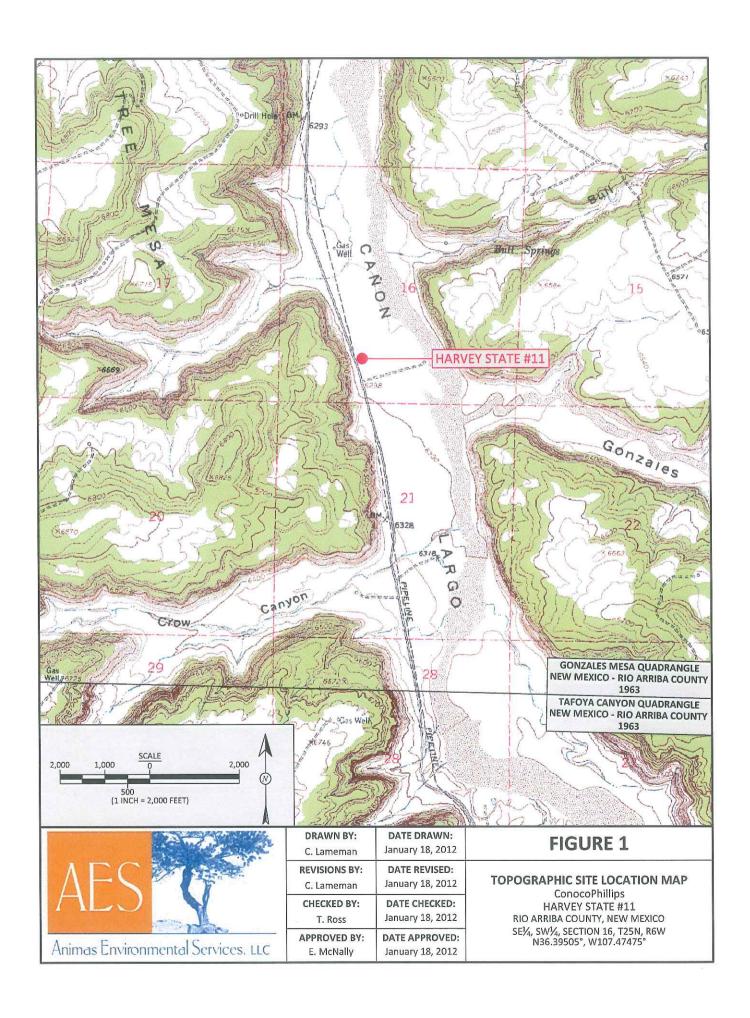
Elizabeth McNally, P.E.

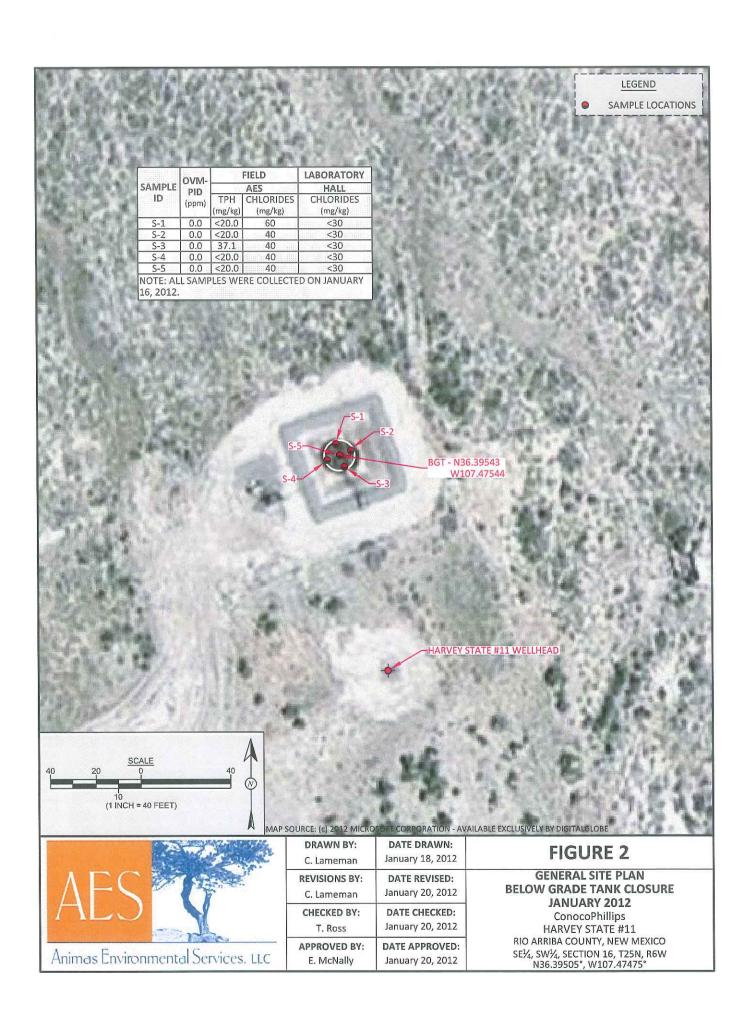
Elizabeth v MeNdly

Attachments:

Figure 1. Topographic Site Location Map Figure 2. General Site Plan, January 2012 AES Field Screening Report 011612 Hall Analytical Report 1201431

S:\Animas 2000\2012 Projects\Conoco Phillips\Harvey State #11\Report\Harvey State #11 BGT Closure Report 012612.docx





AES Field Screening Report

Client: ConocoPhillips

Project Location: Harvey State #11

Date: 1/16/2012

Durango, Colorado 970-403-3274

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

Animas Environmental Services, LLC

www.animasenvironmental.com

Matrix: Soil

		, .						
	TPH Analysts	TCR	TCR	TCR	TCR	TCR		
	Ü	; H	T	Н	Н	\leftarrow		
	TPH PQL	20.0	20.0	20.0	20.0	20.0		
	Field TPH*	<20.0	<20.0	37.1	<20.0	<20.0		
	Field TPH Analysis	13:55	14:22	14:26	14:35	14:51		
	Field Chloride	60	40	40	40	40		
	MVO	0.0	0.0	0.0	0.0	0.0		
	Sample	NORTH	EAST	SOUTH	WEST	CENTER		
	Time of Sample	12:35	12:45	12:57	13:06	13:55		
TOO WINDIA	Collection	1/16/2012	1/16/2012	1/16/2012	1/16/2012	1/16/2012		
	-	S-1	S-2	S-3	S-4	S-5		

Practical Quantitation Limit PQL

Not Detected at the Reporting Limit N N

Dilution Factor

*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

January 18, 2012

Ross Kennemer Animas Environmental Services 624 East Comanche

Farmington, NM 87401 TEL: (505) 564-2281 FAX (505) 324-2022

RE: COP Harvey State #11

OrderNo.: 1201431

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 5 sample(s) on 1/17/2012 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative. Analytical results designated with a "J" qualifier are estimated and represent a detection above the Method Detection Limit (MDL) and less than the Reporting Limit (PQL). These analytes are not reviewed nor narrated as to whether they are laboratory artifacts.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 1/18/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas-Environmental-Services

Client Sample ID: S-1

Project: COP Harvey State #11

Collection Date: 1/16/2012 12:35:00 PM

Lab ID: 1201431-001

Matrix: SOIL

Received Date: 1/17/2012 10:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	ND	30	mg/Kg	20	1/17/2012 12:48:15 PM

Qualifiers:

- 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.

Date Reported: 1/18/2012

CLIENT: Animas Environmental Services

Project: COP Harvey State #11

Lab ID: 1201431-002

Client Sample ID: S-2

Collection Date: 1/16/2012 12:45:00 PM

Received Date: 1/17/2012 10:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	ND	30	mg/Kg	20	1/17/2012 1:05:39 PM

Matrix: SOIL

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

Date Reported: 1/18/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

COP Harvey State #11 Project:

Lab ID: 1201431-003

Matrix: SOIL

Collection Date: 1/16/2012 12:57:00 PM

Client Sample ID: S-3

Received Date: 1/17/2012 10:35:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed				
EPA METHOD 300.0: ANIONS			(-		Analyst: BRM				
Chloride	ND	30	mg/Kg	20	1/17/2012 1:23:03 PM				

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

RPD outside accepted recovery limits R

Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Date Reported: 1/18/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-4

Project:

COP Harvey State #11

Collection Date: 1/16/2012 1:06:00 PM

Lab ID: 1201431-004

Matrix: SOIL

Received Date: 1/17/2012 10:35:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed				
EPA METHOD 300.0: ANIONS					Analyst: BRM				
Chloride	ND	30	mg/Kg	20	1/17/2012 2:15:17 PM				

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

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

Page 4 of 6

Date Reported: 1/18/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: S-5

Project: COP Harvey State #11

Collection Date: 1/16/2012 1:55:00 PM

Lab ID: 1201431-005

Matrix: SOIL

Received Date: 1/17/2012 10:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed				
EPA METHOD 300.0: ANIONS	-		**************************************		Analyst: BRM				
Chloride	ND	30	mg/Kg	20	1/17/2012 2:32:42 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

Page 5 of 6

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1201431

18-Jan-12

Client:

Animas-Environmental-Services

Project:

COP Harvey State #11

Sample ID MB-304

SampType: MBLK

PQL

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 304

RunNo: 426

Prep Date: 1/17/2012

LCSS

1/17/2012

Analysis Date: 1/17/2012

Result

Analyte

SeqNo: 12343

Units: mg/Kg HighLimit

RPDLimit

RPDLimit

%RPD

Qual

Qual

Chloride

ND 1.5

Sample ID LCS-304

SampType: LCS Batch ID: 304

TestCode: EPA Method 300,0: Anions RunNo: 426

Units: mg/Kg

Prep Date: Analyte

Client ID:

Analysis Date: 1/17/2012

PQL

1.5

SeqNo: 12344 SPK value SPK Ref Val %REC

SPK value SPK Ref Val %REC LowLimit

LowLimit HighLimit

%RPD

Chloride

Result 14

15.00

93.4

90

110

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits RPD outside accepted recovery limits

Analyte detected in the associated Method Blank Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND Reporting Detection Limit

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-410;

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Envir	onmental	Work Order Number: 120	1431
Logged by: Lindsay Man	gin 1/17/2012 10:35:00 A	M Streets	Mago
Completed By: Lindsay Man	gin 1/17/2012 10:37:33 A	M July	Mago
Reviewed By: MG [/	7/12		
Chain of Custody			
1. Were seals intact?		Yes 🗌 No 🗎	Not Present 🗹
2. Is Chain of Custody comple	te?	Yes 🗹 No 🗌 🛽 i	Not Present
3. How was the sample deliver	ed?	<u>Courier</u>	
<u>Log In</u>			
4. Coolers are present? (see 1	9. for cooler specific information)	Yes 🗹 No 🗌	NA 🗆
5. Was an attempt made to co	ol the samples?	Yes ☑ No 🗌	NA 🗆
6. Were all samples received a	at a temperature of >0° C to 6.0°C	Yes ☑ No 🗆	NA □
7. Sample(s) in proper contain	er(s)?	Yes ☑ No □	
8. Sufficient sample volume for		Yes ☑ No □	
9. Are samples (except VOA a	0.42	Yes ☑ No □	
10. Was preservative added to I		Yes No 🗸	NA 🗆
11. Is the headspace in the VOA	A vials less than 1/4 inch or 6 mm?	Yes 🗌 No 🗀 No	VOA Vials 🗹
12. Were any sample containers	received broken?	Yes No 🗸	
 Does paperwork match bottl (Note discrepancies on chai 		Yes ✓ No	# of preserved bottles checked for pH:
14. Are matrices correctly identi	fied on Chain of Custody?	Yes 🗹 No 🗌	(<2 or >12 unless noted)
15. Is it clear what analyses wer	e requested?	Yes 🗹 No 🗌	Adjusted?
16. Were all holding times able		Yes V No	
(If no, notify customer for au	85%		Checked by:
Special Handling (if applied		v	🗖
17. Was client notified of all disc	reparicles with this order?	Yes No No	NA 🗹
Person Notified:	Date:		
By Whom:	Via:	eMail Phone	Fax In Person
Regarding:	Account of the second of the s		
Client Instructions:			20
10. Additional remarks.			
19. Cooler Information			
Cooler No Temp °C		Seal Date Signed B	dy
1 2.7 G	ood Yes		

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	ANALYSIS LABOR	www.hallenvironmental.com	- Albuquerque, NM 87109	Fax	Analysis Request	s	bcB.	28	, 08 \ 8	elste DN,10 ebk	AN9) 016 M 8 A92 D,9) enoin. D,8) enoin. DN) 8082 OV) 8082 M98) 07S	4 8 8								Conoco (Phi	Area:26		This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
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Chain-	CIICILI, ADIMOS		Mailing Address: (Firminator	Phone #: OS	email or Fax#:-	QA/QC Package:	A Standard	Accreditation □ NELAP	□ EDD (Type)	Date Time	1100 1735	7 Z	17/2	1385	1355				Date: Time:	Mar Tory	Date: Time:	If necessary,

