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

Alternative Method:

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

1220 S. St. Francis Dr., Sama re, Nivi 67505	Santa Fe, NM 87505	to the appropriat	e NMOCD District Office.
12611	Pit, Below-Grade Tank,	9.71	RECEIVED
39-27758 <u>Proposed Alterna</u>	tive Method Permit or Clo		By OCD at 10:32 am, Jan 27, 2015
Permit of a Closure of Modification	le tank registration pit or proposed alternative method a pit, below-grade tank, or proposed on to an existing permit/or registratio n only submitted for an existing per	n	it, below-grade tank,
Please be advised that approval of this request does not relic		ns result in pollution of surface	ce water, ground water or the
nvironment. Nor does approval relieve the operator of its	responsibility to comply with any other app	licable governmental authori	ty's rules, regulations or ordinances.
	OGRID #: 1	<u>4538</u>	
Address: PO BOX 4289, Farmington, NM 8	7499		
Facility or well name: San Juan 30-6 Unit 489S	¥		
API Number: <u>3003927758</u>	OCD Permit Number:		
U/L or Qtr/Qtr _D (NWNW) Section _24	Township 30N Range 6W C	ounty: <u>Rio Arriba</u>	
Center of Proposed Design: Latitude <u>36.802450000</u>	• <u>N</u> Longitude107.42146000	<u>-W</u> NAD: ⊠1927	□ 1983
Surface Owner: \boxtimes Federal \square State \square Private \square Tri	bal Trust or Indian Allotment		
2. Pit: Subsection F, G or J of 19.15.17.11 NMAC			
Temporary: Drilling Workover	Closed	d Prior to Closure P	lan Approval.
Permanent Emergency Cavitation P&A			ng Fluid yes no
Lined Unlined Liner type: Thickness	No. of the second secon		ng rand 🖂 jeo 🖂 no
String-Reinforced			
Liner Seams: Welded Factory Other	Volume:	bbl Dimensions: L	x W x D
3. Below-grade tank: Subsection I of 19.15.17.11 Volume: 120 bbl Type of fl Tank Construction material: Metal Secondary containment with leak detection V Visible sidewalls and liner Visible sidewalls	uid: Produced Water Set Visible sidewalls, liner, 6-inch lift and aut only Other	y 19.15.17.13 NM/ eparate C-141 und	
Liner type: Thickness 45 mil	☐ HDPE ☐ FVC ☒ OtherLL	<u>Dre</u>	

Page 1 of 6

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	l i a - I
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church)	nospital,
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
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	
 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.	
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.	otable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - □ NM Office of the State Engineer - iWATERS database search; □ USGS; ☑ Data obtained from nearby wells	☐ Yes ☒ No ☐ 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 図 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
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
10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N	IMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docattached.	cuments are
 ☐ 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) 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	15.17.9 NMAC
☐ Previously Approved Design (attach copy of design) API Number: or Permit Number:	
11. Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC	
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC	cuments are
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	0.15.17.9 NMAC
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:	

10	
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.	locuments are
Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC	
 □ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC □ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC □ Quality Control/Quality Assurance Construction and Installation Plan 	
 □ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC □ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC □ Nuisance or Hazardous Odors, including H₂S, Prevention Plan □ Emergency Response Plan 	
Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan	
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
13. <u>Proposed Closure</u> : 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 Flank Alternative Proposed Closure Method: Waste Excavation and Removal	uid Management Pit
 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 	
14.	A . Y . Z A . W
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a closure plan. Please indicate, by a check mark in the box, that the documents are attached. □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
15,	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
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	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	Yes No

- Written confirmation or verification from the municipality; Written approv	al 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 Society; Topographic map	y & Mineral Resources; USGS; NM Geological	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 by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Construction/Design Plan of Temporary Pit (for in-place burial of a drying perotocols and Procedures - based upon the appropriate requirements of 19.1: Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Disposal Facility Name and Permit Number (for liquids, drilling fluids and Confirmation Sampling Plan - based upon the appropriate requirements of Subsection Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	uirements of 19.15.17.10 NMAC Subsection E of 19.15.17.13 NMAC Spropriate requirements of Subsection K of 19.15.17. ad) - based upon the appropriate requirements of 19. 5.17.13 NMAC uirements of 19.15.17.13 NMAC 19.15.17.13 NMAC lrill cuttings or in case on-site closure standards cann H of 19.15.17.13 NMAC H of 19.15.17.13 NMAC	.11 NMAC .15.17.11 NMAC
Operator Application Certification: I hereby certify that the information submitted with this application is true, accura	te and complete to the best of my knowledge and believe	iof
Name (Print):	en i maggio e dell'occide della compania della compania della compania della compania della compania della comp	
Name (Frint):	Title:	
Signature:	Date:	
e-mail address:	Telephone:	
e-mail address: 18. OCD Approval: Permit Application (including closure plan) Closure Plan	Telephone:	
e-mail address: 18. OCD Approval: Permit Application (including closure plan) Closure Plan	Telephone:	
e-mail address:	Telephone: ten (only)	e front page
e-mail address: OCD Approval: Permit Application (including closure plan) Closure Plan OCD Representative Signature:	Telephone: Condition	e front page Mar 27, 2015 g the closure report.
e-mail address: OCD Approval: Permit Application (including closure plan) Closure Plan OCD Representative Signature: Title: Environmental Specialst 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 instructions: Operators are required to obtain an approved closure plan prior to The closure report is required to be submitted to the division within 60 days of the section of the form until an approved closure plan has been obtained and the closure Method:	Telephone:	Mar 27, 2015 g the closure report. t complete this

22. 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	
Name (Print): Kenny Davis	Title: Staff Regulatory Technician
Signature:	Date: 12/3/14
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: SJ 30-6 Unit 489S

API No.: 3003927758

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

General Plan:

- 1. BR shall close a below-grade tank within 60 days of cessation of operations per Subsection G.4 of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- 2. The below-grade tank referenced above was permitted and closed within 60 days of cessation of the below-grade tanks operation.
- 3. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005), JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.

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

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

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

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

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

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

7. A five point composite sample was taken of the below-grade tank using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached).

Components	mponents 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 300.1	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.

<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

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

						OPERA'	ГOR		X Initia	al Report	\bowtie	Final Report
Name of Co	mpany Bu	rlington Reso	urces			Contact Kenny Davis						
		St, Farmingt					No.(505) 599-40	145				
Facility Nar	me: San Ju	an 30-6 Unit	489S		F	Facility Typ	e: Gas Well					
Surface Ow	mer Federa	ıl		Mineral C	wner F	ederal			Lease N	lo.SF-078	741	
				LOCA	TION	OF RE	LEASE					
Unit Letter D	Section 24	Township 30N	Range 6W	Feet from the 1005	North/S	South Line	Feet from the 365	East/\ West	West Line	County Rio Arrib		
D	Let "T	3014				Longitu	le-107.4214600	8		RIO ATTIO	a	
						OF REL		0				
Type of Rele	ace BGT CI	losure Summar	**/	IVAI	UNE	Service Conference	Release N/A		Volume I	Recovered N	Γ/Δ	
Source of Re			У				Hour of Occurrence	e N/A		Hour of Dis		N/A
Was Immedi						If YES, To						
☐ Yes ☐ No ☒ Not Required						N/A						
By Whom? N/A						Date and I						
Was a Watercourse Reached?						100	olume Impacting	the Wat	ercourse.			
N/.	A		∐ Yes	⊠ No		N/A						
	urse was Imp	pacted, Describ	e Fully.*		"	Con	stituents	Exc	eed S	tandar	ds c	outline
N/A												
						by 1	9.15.17.1	13 N	MAC.	Pleas	e si	ibmit a
						sep	arate C-1	41 u	ınder '	19 15 2	29 N	JMAC
STATE OF THE PROPERTY OF THE P	use of Proble	em and Remed	ial Action	n Taken.*		0.010						
N/A												
		and Cleanup A										
BGT Closu	re: NO REI	LEASE FOUN	ND UPOI	N REMOVAL								
							knowledge and u					
							nd perform correct parked as "Final R					
							ion that pose a thi					
or the enviro	nment. In a	ddition, NMO	CD accep				ve the operator of					
federal, state	e, or local lav	ws and/or regul	ations.								~	
							OIL CON	SER	ATION	DIVISIO	N	
Signature:												
						Approved by	District Supervis	sor.				
Printed Nam	ne: Kenny D	avis				ripprovou o	District Super vie	,,,,				
Title: Staff	Regulatory T	Γechnician				Approval Da	ite:		Expiration	Date:		
E meil Add.	rong, V anne: :	r.davis@conoc	onhilling	aom		Conditions o	f Approval:					
E-man Addi	css. Kenny.i	.uavis@conoc	opininps	.com		Conditions	Approvai.			Attached	1 🗌	
Date: 12/4/	14 Phone:	(505) 599-404	-5									=
* Attach Add												

Animas Environmental Services, LLC

June 10, 2013

Crystal Tafoya ConocoPhillips San Juan Business Unit Office 214-05 5525 Hwy 64 Farmington, New Mexico 87401 624 E. Comanche Farmington, NM 87401 505-564-2281

> Durango, Colorado 970-403-3084

RE:

Below Grade Tank Closure and Final Excavation Report

San Juan 30-6 #489S

Rio Arriba County, New Mexico

Dear Ms. Tafoya:

On May 9, 2013, Animas Environmental Services, LLC (AES) completed below grade tank (BGT) closure sampling and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) San Juan 30-6 #489S, located in Rio Arriba County, New Mexico. The historical release was discovered during BGT closure sampling at the location, and the final excavation was completed by contractors while AES was on location on May 9, 2013.

1.0 Site Information

1.1 Location

Site Name – San Juan 30-6 #489S
Legal Description – NW¼ NW¾, Section 24, T30N, R6W, Rio Arriba County, New Mexico Well Latitude/Longitude – N36.80262 and W107.42197, respectively BGT Latitude/Longitude – N36.80275 and W107.42184, respectively Land Jurisdiction – Bureau of Land Management (BLM)
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, May 2013

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a C-144 form dated January 2005 for the San Juan 30-6 #489S reported the depth to groundwater as between 50 and 99 feet below ground surface (bgs). The New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby water wells, and no registered water wells were reported to be located within 1,000

feet of the location. Additionally, Google Earth and the New Mexico Tech Petroleum Recovery Research Center online mapping tool (http://ford.nmt.edu/react/project.html) were accessed to aid in the identification of downgradient surface water.

Once on site, AES personnel further assessed the ranking using topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site was between 50 and 99 feet bgs. An unnamed wash which discharges to La Jara Canyon is located approximately 170 feet northwest of the location. Based on this information, the location was assessed a ranking score of 30.

1.3 Assessments

AES was initially contacted by Freddie Martinez, CoP representative, on May 8, 2013, and on May 9, 2013, Heather Woods and Jesse Christopherson of AES mobilized to the location. AES personnel collected six soil samples from below the BGT liner. Four samples were collected from the perimeter of the BGT footprint, one sample was collected from the center of the BGT footprint, and one sample (SC-1) was composited from the four perimeter samples and one center sample. Sample locations are shown on Figure 2.

Based on the field screening results from the BGT assessment, AES recommended an area of excavation and provided excavation guidance while onsite on May 9, 2013. AES personnel collected a total of five confirmation soil samples (SC-2 through SC-6) from the walls and base of the excavation. The final excavation measured approximately 22 feet by 22 feet by 8 to 10 feet in depth. Sample locations and final excavation extents are presented on Figure 3.

2.0 Soil Sampling

On May 9, 2013, AES personnel conducted field screening and collected five soil samples (S-1 through S-5) and one 5-point composite (SC-1) from below the BGT. Soil samples were collected from approximately 0.5 feet below the former BGT for field screening of volatile organic compounds (VOCs) and total petroleum hydrocarbon (TPH). Soil sample SC-1 was field screened for VOCs and chloride and was submitted for confirmation laboratory analysis. In addition, AES personnel collected five 5-point composite (SC-2 through SC-6) soil samples from the sidewalls and base of the final excavation for confirmation field screening of VOCs and TPH.

Field Screening 2.1

2.1.1 Volatile Organic Compounds

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

2.1.3 Chlorides

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

Laboratory Analyses 2.2

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

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8260B; and
- Chloride per USEPA Method 300.0.

Field and Laboratory Analytical Results 2.3

BGT closure field screening readings for VOCs via OVM ranged from 0.4 ppm in S-5 up to 4.8 ppm in S-2. Field TPH concentrations ranged from 376 mg/kg in S-5 to greater than 2,500 mg/kg in S-1 through S-4. The field chloride concentration in SC-1 was 60 mg/kg.

Final excavation field screening results for VOCs via OVM concentrations ranged from 0.1 ppm in SC-5 and SC-6 to 1.2 ppm in SC-3. Field TPH concentrations ranged from less than 20 mg/kg in SC-5 up to 55.5 mg/kg in SC-2. Field screening results are summarized in Table 1 and presented on Figure 2. The AES Field Screening Report is attached.

Table 1. Soil Field Screening VOCs, TPH, and Chloride Results San Juan 30-6 #489S BGT Closure and Final Excavation

		May 201	.3		
Sample ID	Date Sampled	Depth below BGT (ft)	VOCs OVM Reading (ppm)	Field TPH (mg/kg)	Field Chlorides (mg/kg)
NMOCD Action Le	evel* (NMAC 19	.15.17.13E)	100	100	250
S-1	5/9/13	0.5	4.0	>2,500	NA
S-2	5/9/13	0.5	4.8	>2,500	NA
S-3	5/9/13	0.5	1.7	>2,500	NA
S-4	5/9/13	0.5	2.3	>2,500	NA
S-5	5/9/13	0.5	0.4	376	NA
SC-1	5/9/13	0.5	0.5	NA	60
SC-2	5/9/13	8 to 10	0.7	55.5	NA
SC-3	5/9/13	1 to 10	1.2	35.0	NA
SC-4	5/9/13	1 to 8	0.3	44.6	NA
SC-5	5/9/13	1 to 10	0.1	<20.0	NA
SC-6	5/9/13	1 to 10	0.1	25.4	NA

^{*}Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993) and *NMAC 19.15.17.13E.*NA - not analyzed

Laboratory analytical results reported benzene and total BTEX concentrations in SC-1 as less than 0.049 mg/kg and 0.24 mg/kg, respectively. The laboratory chloride concentration was reported below the laboratory detection limit of 30 mg/kg. Laboratory analytical results are summarized in Table 2 and included on Figure 2. Laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results
San Juan 30-6 #489S BGT Closure and Final Excavation

			May 2013				
Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)	Chlorides (mg/kg)
	Level (NMAC 19.15	Will die	0.2	50	1	00	250
SC-1	5/9/13	0.5	<0.049	<0.24	NA	NA	<30

NA - not analyzed

3.0 Conclusions and Recommendations

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. Field TPH concentrations exceeded the NMOCD action level of 100 mg/kg in five samples, S-1 through S-4 (greater than 2,500 mg/kg) and S-5 (376 mg/kg). Benzene and total BTEX concentrations in SC-1 were below the NMOCD action levels of 0.2 mg/kg and 50 mg/kg, respectively. Chloride concentrations in SC-1 were below the NMOCD action level of 250 mg/kg.

Based on field screening results during the BGT closure assessment, a release was confirmed at the San Juan 30-6 #489S, and AES provided excavation guidance while onsite. Action levels for releases are determined by the NMOCD ranking score per NMOCD Guidelines for Leaks, Spills, and Releases (August 1993), and the site was assigned a ranking of 30. Field screening results for VOCs via OVM were below the NMOCD action level of 100 ppm in each confirmation sample, with the highest concentration of 1.2 ppm reported in SC-3. Field TPH concentrations were also reported below the NMOCD action level of 100 mg/kg in each sample collected from the base and walls of the final excavation, with the highest concentration reported in SC-2 (55.5 mg/kg).

Based on excavation of petroleum hydrocarbon impacted soils, field screening, and laboratory analytical results for benzene, total BTEX, TPH, and chlorides, no further work is recommended at the San Juan 30-6 #489S. If you have any questions about this report or site conditions, please do not hesitate to contact Deborah Watson at (505) 564-2281.

Sincerely,

Landrea Cupps

Environmental Scientist

Landre R. Cupps

Elizabeth McNally, P.E.

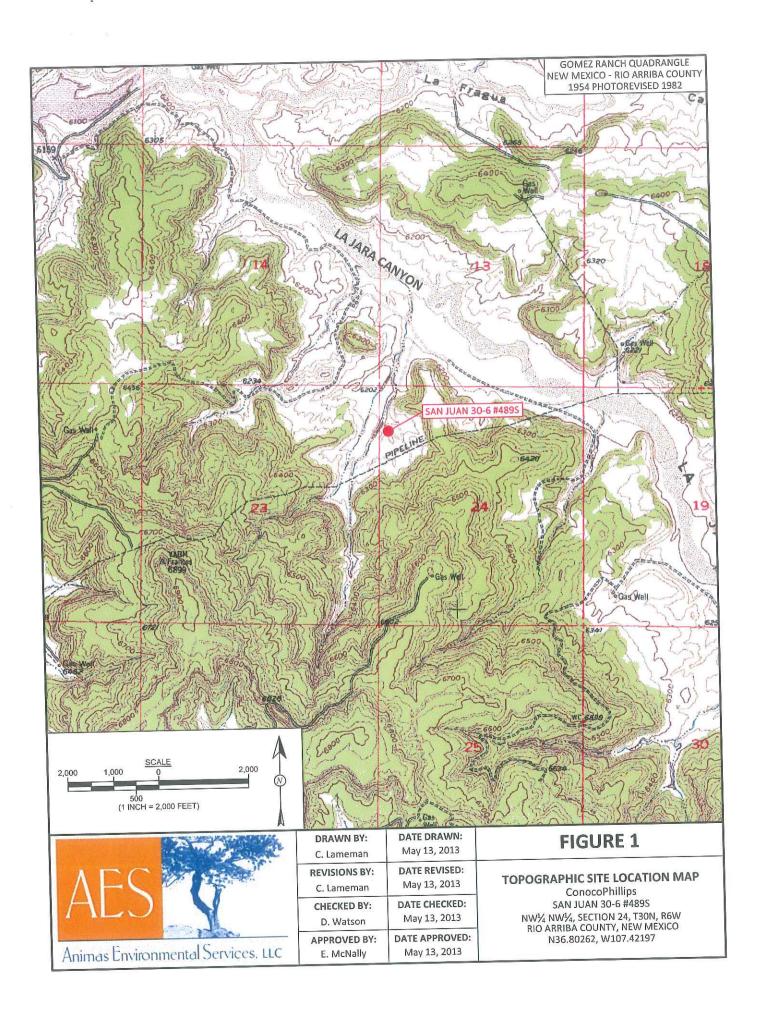
Elizabeth V MiNdly

Crystal Tafoya San Juan 30-6 #489S BGT Closure and Final Excavation Report June 10, 2013 Page 6 of 6

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, May 2013 Figure 3. Excavation Sample Locations and Results, May 2013 AES Field Screening Report 050913 Hall Analytical Report 1305409

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\SJ 30-6 #489S\San Juan 30-6 #489S BGT Closure Report 061013.docx



LEGEND

SAMPLE LOCATIONS

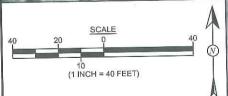
	Field Scre	eening R	esults		
Sample ID	ple ID Date		TPH (mg/kg)	Chlorides (mg/kg)	
NMOCD ACT	TION LEVEL	0.000	100	250	
S-1	5/9/13	4.0	>2,500	NA	
S-2	5/9/13	4.8	>2,500	NA	
S-3	5/9/13	1.7	>2,500	NA	
S-4	5/9/13	2.3	>2,500	NA	
S-5	5/9/13	0.4	376	NA	
SC-1	5/9/13	0.5	NA	60	

SC-1 IS A 5-POINT COMPOSITE SAMPLE OF S-1 THROUGH S-5. NA - NOT ANALYZED

		Laborato	ry Analytico	ıl Results		
Sample ID	Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	Chlorides (mg/kg)
NMOCD ACT	ION LEVEL	0.2	50	10	00	250
SC-1	5/9/13	<0.049	<0.24	NA	NA	<30

S-5-1 S-4 S-4 S-2 W107.42184

SAN JUAN 30-6 #489S WELL MONUMENT



AERIAL SOURCE: © 2012 MICROSOFT CORPORATION - AVAILABLE EXCLUSIVELY BY DIGITALGLOBE

$\Delta \vdash \Box$	
TL	
	onmental Services, LL

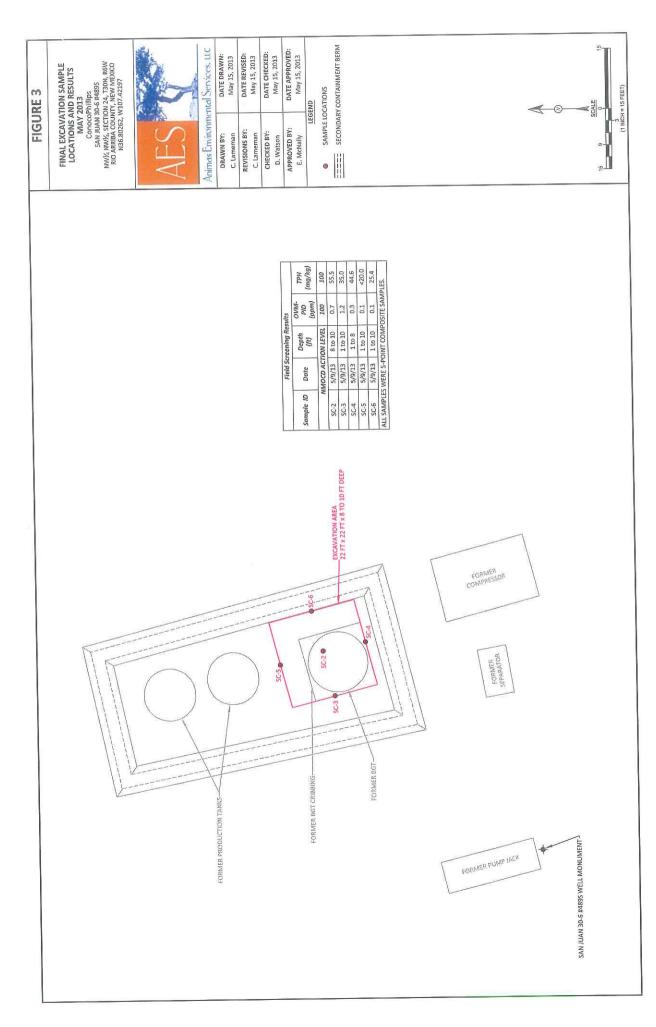
DATE DRAWN:
May 13, 2013
DATE REVISED:
May 13, 2013
DATE CHECKED:
May 13, 2013
DATE APPROVED:
May 13, 2013

FIGURE 2

AERIAL SITE MAP BELOW GRADE TANK CLOSURE MAY 2013

ConocoPhillips SAN JUAN 30-6 #489S

NW¹/₄ NW¹/₄, SECTION 24, T30N, R6W RIO ARRIBA COUNTY, NEW MEXICO N36.80262, W107.42197



AES Field Screening Report

Client: ConocoPhillips

Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche Farmington, NM 87401

505-564-2281

Durango, Colorado 970-403-3084

Project Location: San Juan 30-6 #489S

Date: 5/9/2013

Matrix: Soil

Analysts Initials NH NH NH MN MH **≥**H MM M M NH MM 4 \vdash \leftarrow \vdash \leftarrow \vdash Not Analyzed for TPH. TPH PQL (mg/kg) 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 20.0 Total Petroleum Hydrocarbons - USEPA 418.1 Field TPH* (mg/kg) <20.0 >2500 >2500 >2500 >2500 44.6 35.0 55.5 376 Field TPH Analysis 16:35 16:33 12:26 17:04 17:09 12:16 12:19 12:22 12:28 16:27 Time Chloride (mg/kg) Field MA AN AN NA N MA NA AN Y V MA NA 9 (mdd) NO NO 0.3 0.1 2.3 0.4 0.5 1.2 0.1 4.8 0.7 4.0 1.7 Sample Location **BGT** Composite Excavation Base **BGT** Center West Wall South Wall North Wall **BGT West** BGT South East Wall **BGT North BGT** East Collection Sample Time of 15:49 15:39 16:51 16:53 15:47 11:30 11;34 11:30 11:26 11:20 11:32 5/9/2013 5/9/2013 5/9/2013 5/9/2013 5/9/2013 5/9/2013 5/9/2013 Collection 5/9/2013 5/9/2013 5/9/2013 5/9/2013 Date Sample ID **SC-5 SC-6** SC-4 SC-3 **SC-2** S-5 SC-1 **S-4** 5-3 **S-2**

Analyst:

Not Detected at the Reporting Limit

Dilution Factor

Not Analyzed

NA

*Field TPH concentrations recorded may be below PQL.

Page 1

Report Finalized: 05/09/13



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

May 14, 2013

Debbie Watson

Animas Environmental 624 East Comanche Farmington, NM 87401

TEL: (505) 486-4071

FAX

RE: CoP San Juan 30-6 #489S

OrderNo.: 1305409

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/10/2013 for the analyses presented in the following report.

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

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1305409

Date Reported: 5/14/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

CoP San Juan 30-6 #489S

Lab ID: 1305409-001

Project:

Client Sample ID: SC-1

Collection Date: 5/9/2013 11:38:00 AM

Received Date: 5/10/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	ND	30	mg/Kg	20	5/10/2013 12:35:44 PM
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	5/13/2013 1:27:11 PM
Toluene	ND	0.049	mg/Kg	1	5/13/2013 1:27:11 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/13/2013 1:27:11 PM
Xylenes, Total	ND	0.097	mg/Kg	1	5/13/2013 1:27:11 PM
Surr: 1.2-Dichloroethane-d4	85.2	70-130	%REC	1	5/13/2013 1:27:11 PM
Surr: 4-Bromofluorobenzene	82.6	70-130	%REC	1	5/13/2013 1:27:11 PM
Surr: Dibromofluoromethane	89.5	70-130	%REC	1	5/13/2013 1:27:11 PM
Surr: Toluene-d8	93.1	70-130	%REC	1	5/13/2013 1:27:11 PM

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.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Page 1 of 4
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1305409

14-May-13

Client:

Animas Environmental

Project:

CoP San Juan 30-6 #489S

Sample ID 1305367-001AMS

SampType: MS

TestCode: EPA Method 300.0: Anions

Client ID: BatchQC Batch ID: 7384

RunNo: 10562

5/10/2013 Prep Date:

Analysis Date: 5/10/2013

14

Result

Result

SeqNo: 298384

Units: mg/Kg

Analyte

Result PQL

SPK value SPK Ref Val %REC 91.9

LowLimit

64.4

TestCode: EPA Method 300.0: Anions

HighLimit %RPD

Qual

Chloride

Sample ID 1305367-001AMSD

SampType: MSD

15.00

15.00

15.00

SPK value SPK Ref Val

RunNo: 10562

Client ID: Prep Date:

BatchQC 5/10/2013

Analysis Date: 5/10/2013

PQL

7.5

SeqNo: 298385

Units: mg/Kg

Analyte

HighLimit

%RPD **RPDLimit**

RPDLimit

13 7.5

Batch ID: 7384

%REC LowLimit SPK value SPK Ref Val 90.0

64.4

2.14 20

Chloride

Sample ID 1305413-001AMS

SampType: MS

TestCode: EPA Method 300.0: Anions

BatchQC Client ID: 5/10/2013 Batch ID: 7384

RunNo: 10562

Units: mg/Kg

Prep Date: Analyte

Analysis Date: 5/10/2013

SeqNo: 298401 %REC

65.0

HighLimit

117

RPDLimit

Qual

Qual

Chloride

PQL 44 30

TestCode: EPA Method 300.0: Anions

LowLimit

64.4

Sample ID 1305413-001AMSD BatchQC Client ID:

SampType: MSD Batch ID: 7384

RunNo: 10562

Prep Date:

5/10/2013

Units: mg/Kg

Analysis Date: 5/10/2013 PQL

30

SeqNo: 298402

RPDLimit %RPD

Qual

Analyte Chloride

45

SPK value SPK Ref Val %REC

15.00

34.12

34.12

75.8

64.4

LowLimit

HighLimit 117

%RPD

3.65

20

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- Analyte detected below quantitation limits
- Sample pH greater than 2 P
- Reporting Detection Limit

- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R Spike Recovery outside accepted recovery limits

Page 2 of 4

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1305409

14-May-13

Client:	Animas Environmental
Project:	CoP San Juan 30-6 #489S

Sample ID mb-7389	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batch	n ID: 73	89	F	RunNo: 10	0577				
Prep Date: 5/10/2013	Analysis D	ate: 5/	13/2013	5	SeqNo: 2	99207	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.41		0.5000		82.9	70	130			
Surr: 4-Bromofluorobenzene	0.44		0.5000		88.3	70	130			
Surr: Dibromofluoromethane	0.44		0.5000		88.2	70	130			
Surr: Toluene-d8	0.47		0.5000		93.9	70	130			
Sample ID Ics-7389	Samp	Type: LC	os	Tes	tCode: E	PA Method	8260B: Vola	tiles Shor	t List	
Client ID: LCSS	Batc	h ID: 73	889	Ī	RunNo: 1	0577				
Prep Date: 5/10/2013	Analysis [Date: 5	/13/2013	:	SeqNo: 2	99208	Units: mg/l	(g		

Sample ID Ics-7389	SampT	ype: LC	S	Tes	Code: El	A Method	8260B: Voiai	lies Snort	LIST	
Client ID: LCSS	Batcl	n ID: 73	89	F	RunNo: 10	0577				
Prep Date: 5/10/2013	Analysis D	Date: 5/	13/2013	5	SeqNo: 2	99208	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.050	1.000	0	95.4	70	130			
Toluene	1.0	0.050	1.000	0	103	80	120			
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		86.4	70	130			
Surr: 4-Bromofluorobenzene	0.42		0.5000		83.7	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		92.0	70	130			
Surr: Toluene-d8	0.46		0.5000		91.3	70	130			

Sample ID 1305409-001a ms	SampT	ype: MS	3	Tes	Code: El	PA Method	8260B: Volat	iles Short	List	
Client ID: SC-1	Batch	ID: R1	0577	F	tunNo: 10	0577				
Prep Date:	Analysis D	ate: 5/	13/2013	8	SeqNo: 2	99209	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.050	1.000	0.004596	86.3	67.5	124			
Toluene	0.95	0.050	1.000	0	94.9	55.8	142			
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		84.8	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		85.8	70	130			
Surr: Dibromofluoromethane	0.45		0.5000		89.6	70	130			
Surr: Toluene-d8	0.47		0.5000		93.0	70	130			

Sample ID 1305409-001a ms	sd SampT	ype: MS	SD	Test	Code: El	PA Method	8260B: Volat	iles Short	List	
Client ID: SC-1	Batch	ID: R1	0577	F	RunNo: 1	0577				
Prep Date:	Analysis D	ate: 5	13/2013	S	SeqNo: 2	99210	Units: %RE	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		86.6	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.43		0.5000		86.1	70	130	0	0	
Surr: Dibromofluoromethane	0.46		0.5000		92.2	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- Page 3 of 4

S Spike Recovery outside accepted recovery limits

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1305409

14-May-13

Client:

Animas Environmental

Project:

CoP San Juan 30-6 #489S

Sample ID 1305409-001a msd

SampType: MSD

TestCode: EPA Method 8260B: Volatiles Short List

Client ID: SC-1

Batch ID: R10577

RunNo: 10577

Prep Date:

Analysis Date: 5/13/2013

SeqNo: 299210

Units: %REC

Analyte

Result

SPK value SPK Ref Val %REC LowLimit

%RPD HighLimit

Surr: Toluene-d8

0.44

0.5000

RPDLimit 0

Qual

88.6

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

Sample pH greater than 2 P

RL Reporting Detection Limit

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded Η

Not Detected at the Reporting Limit ND

RPD outside accepted recovery limits R Spike Recovery outside accepted recovery limits Page 4 of 4



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.con

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number	: 1305409		RcptNo: 1	
Received by/date: 15/10/12		T = T = A		
Logged By: Michelle Garcia 5/10/2013 10:00:00 A	М	Michaelle Garce	ن	. 4
Completed By: Michelle Garcia 5/10/2013 10:08:48 A	M	Michalle Gener	ပ်	
Reviewed By: 05/10/13		والعليان		43.1
Chain of Custody		18/ 11 //		
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 🗆		
Was preservative added to bottles?	Yes	No 🗹	NA 🗆	
10.VOA vials have zero headspace?	Yes 🗆	No 🗆	No VOA Vials	
11. Were any sample containers received broken?	Yes	No 🗹	# of preserved	
			bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No U	for pH: (<2 or >12 un	less 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:		The state of the s	and the state of t	
17. Additional remarks:				
18. Cooler Information	23			
Cooler No. Temp % Condition . Seal Intact. Seal No.	Seal Date	Signed By		
1 1.0 Good Yes				

Ord Tum-Around Time: C1- same day Ord Tum-Around T	Project Name:	Cof San Juan 30-6#4895 4901 Hawkins NE - Albuqu	Project #: Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	(NRO)	D. Watson 1 (Gas of 1975) 2 (802)	Sampler: H. Woods + TME	emperatures (A)	Type and # Type Type and # Type Type and # Type Type and # Type Anions (F, 8360B (Vol. 1981) Type (Retirement of the foliation of the fol	1-40ch-1					Date Time Remarks: Q. 11 12 04:11:00	11. 8-1 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Received by: Park Time Activity: 0.200
100	3.	of San Juan	oject #:	oject Manager:	s, watson	168524			-402Jay				102	white	1. d. / . / . / .	eceived by:
Record	Animas Environmental Devolus Pr	Comanche	67401	ď	☐ Level 4 (Full Validation)	12.311		Matrix Sample Request ID	7 9 0							HIRTHE M. U.CO.
Chain-o	Animas	Mailing Address: 624 E.	Farming ton, NA	email or Fax#:	QA/QC Package: ୟା Standard	-	□ EDD (Type)		12.20						Time:	1/6/13 Le Le S. Date: Time:

