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

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

Form C-144 Revised June 6, 2013

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

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

Santa re, thirt 87303 to the appropriate invioced district office.
Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application
Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank,
or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request
lease be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the avironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances
Operator: Burlington Resources Oil & Gas Company, LP OGRID #: 14538
Address: PO BOX 4289, Farmington, NM 87499
Facility or well name: San Juan 30-6 Unit 488S
API Number: _30-039-27759 OCD Permit Number:
U/L or Qtr/Qtr J Section 24 Township 30 N Range 6 W County: Rio Arriba
Center of Proposed Design: Latitude36.796684nN Longitude107.411068nW NAD: □1927 □ 1983
Surface Owner: M Federal M State M Private M Tribal Trust or Indian Allotment
2.
Pit: Subsection F, G or J of 19.15.17.11 NMAC
Temporary: Drilling Workover
Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
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 NMAC
Volume: 120 bbl Type of fluid: Produced Water
Tank Construction material: Metal Metal
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type: Thickness 45 mil HDPE PVC Other LLDPE
4. Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
5.
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)

Alternate. Please specify

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

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.	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 図 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).	☐ Yes ☑ No
- 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	☐ Tes ☐ Ivo
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the dot attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.1 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 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:	9 NMAC 9.15.17.9 NMAC
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the deattached. 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 1 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number:	9.15.17.9 NMAC

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the dattached. 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	ocuments are
 □ Dike Protection and Structural integrity Design observables in the property of the protection and Structural integrity Design observables in 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.	
Proposed Closure: 19.15.17.13 NMAC Note: The street of 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 Fl	uid Management Pit
Alternative Proposed Closure Method: Waste Excavation and Removal	
Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems)	
In-place Burial On-site Trench Burial	
Alternative Closure Method	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
15.	
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 sou provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. 19.15.17.10 NMAC for guidance.	rce material are Please 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 ☐ Yes ☐ No
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	NA 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	□ 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	Yes No
- 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	
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)f6

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No
Within a 100-year floodplain.	☐ 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 plan by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17. 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 canr. Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	.11 NMAC .15.17.11 NMAC
Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and below (Print): Title:	
Name (1 time).	
Signature: Date:	
e-mail address: Telephone:	
18. OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)	
OCD Representative Signature: Approval Date: Approval Date:	4-2016
Title: Environmental Specialist OCD Permit Number:	
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	ng the closure report. ot complete this
☐ Closure Completion Date:12/2/13	
Closure Method: Weste Removal (Closed	LX
Closure Method: ☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-☐ If different from approved plan, please explain.	-loop systems only)

Harris and the same of the sam	nre Certification: that the information and attachments submitted with this closurity that the closure complies with all applicable closure requ	ure report is true, accurate and complete to the best of my kno irements and conditions specified in the approved closure pla	wledge and in.
Name (Print): L	mt.i. D	gulatory Technician 3 - \begin{align*tikzpicture} 4 - alig	
Signature:	Julyasmill	Date:	
e-mail address:	Larissa.L.Farrell@cop.com Telephone: (505) 326-9504	4	

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

Lease Name: San Juan 30-6 Unit 488S

API No.: 30-039-27759

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.

2. 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.

3. 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.

 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.

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

A five point composite sample was taken of the below-grade tank using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached). Form C-141 is attached.

Components	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 300.0	250

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.

- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
 - i. Operator's name
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.

Notification was not found.

9. 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 was not found.

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

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

11. 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.

12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material, with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.

The below-grade tank area was backfilled and more than four feet of cover was achieved and the cover included one foot of suitable material to establish vegetation at the site.

- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on C-144 and incorporate the following:
 - Soil Backfilling and Cover Installation (See Report)
 - Re-vegetation application rates and seeding techniques (See Report)
 - Photo documentation of the site reclamation (Included as an attachment)
 - Confirmation Sampling Results (Included as an attachment)
 - Proof of closure notice (Included as an attachment)

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II

1301 W. Grand Avenue, Artesia, NM 88210

District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011 Submit 1 Copy to appropriate District Office to accordance with 19.15.29 NMAC.

Form C-141

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

			Rele	ase Notific	ation	and Co	rrective	Actio	on		
						OPERAT	- C-		☐ Initia	l Report Final Repor	
Name of Co	mpany Bu	rlington Res	ources Oi	l & Gas Compa	ny C	Contact Cry	stal Walker	0837			
Address 340	Address 3401 East 30 th St, Farmington, NM Facility Name: San Juan 30-6 Unit 488S						Telephone No.(505) 326-9837 Facility Type: Gas Well				
			1000) / i.e		, ,,			API No	.30-039-27759	
Surface Ow	ner Federa	al		Mineral (7.07				
						OF REI	Feet from the	Eas	st/West Line	County	
Unit Letter J	Section 24	Township 30N	Range 6W	Feet from the 2190	2/4/01/2005/01/2006/2006	outh	835	5 154	East	Rio Arriba	
J				Latitude 36	.796684	Longitud	e <u>-107.41106</u>	8			
						OF REL					
Type of Rele	nce			INA	LUKE	Volume of	Release		Volume F		
Source of Re	lease					Date and F	Iour of Occurr	ence	Date and	Hour of Discovery	
Was Immedi	ata Notice (Given?				If YES, To	Whom?				
was mineur	ate Notice (Yes [No 🛛 Not R	Required						
By Whom?							Hour olume Impacti	ng the V	Vatercourse.		
Was a Watercourse Reached? ☐ Yes ☒ No						Marine Impacu	ing the i				
If a Waterco	uree was Im	pacted, Descr									
N/A	urse was m	ipuotoa, 2 coo									
Describe Ca	use of Prob	lem and Reme	dial Actio	n Taken.*							
No release	was encoun	tered during	the BGI	Closure.							
Describe Ar	ea Affected	and Cleanup	Action Ta	ken.*							
N/A		•									
		! - Couration o	rivon ahox	e is true and con	nlete to t	he best of m	y knowledge a	nd unde	erstand that pur	rsuant to NMOCD rules and cleases which may endanger	
I hereby cer regulations	tify that the all operator	s are required	to report	and/or file certain	release n	otifications	and perform c	orrective	e actions for re	leases which may endanger lieve the operator of liability	
public healt	h or the env	ironment. Th	e acceptai	ice of a C-141 re	port by in	e Nivioco i	tion that noce	a threat	to oround wate	er, surface water, human health	
or the envir	onment. In	addition, NM	OCD acce	eptance of a C-14	1 report d	loes not relie	ve the operator	r of resp	ponsibility for	compliance with any other	
federal, stat	e, or local l	aws and/or reg	gulations.	CA	- T					N DIVISION	
Signature:	Yn	rissid	arre	0			012 0				
	Mu	7000			77.	Approved h	y Environmen	tal Spec	cialist:		
Printed Na	ne: Larissa	Farrell				Approved o	j Environne				
Title: Reg	ulatory Tec	hnician				Approval D	ate:		Expiration	n Date:	
						Conditions	of Approval:			Augabed [
E-mail Add	lress: Lariss	a.L.Farrell@c	cop.com		-	Conditions	or reprover			Attached	
Date: 2-17	-16		505) 326-	9504				_			
* Attach Ad	ditional Sh	eets If Nece	ssary								



May 23, 2013

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

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

> Durango, Colorado 970-403-3084

RE:

Below Grade Tank Closure Report San Juan 30-6 #488S Rio Arriba County, New Mexico

Dear Ms. Tafoya:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the below grade tank (BGT) closure at ConocoPhillips (CoP) San Juan 30-6 #488S, located in Rio Arriba County, New Mexico. Tank removal had been completed by CoP contractors prior to AES' arrival at the location.

1.0 Site Information

1.1 Location

Site Name – San Juan 30-6 #488S
Legal Description – NW¼ SE¼, Section 24, T30N, R6W, Rio Arriba County, New Mexico Well Latitude/Longitude – N36.79690 and W107.41063, respectively BGT Latitude/Longitude – N36.79671 and W107.41105, 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 #488S 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 375 feet east of the location. Based on this information, the location was assessed a ranking score of 20.

1.3 BGT Closure Assessment

AES was initially contacted by Freddy 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 was composited from the four perimeter samples and one center sample.

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. Soil sample locations are included on Figure 2.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

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

2.1.2 Total Petroleum Hydrocarbons

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

2.1.3 Chlorides

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

2.2 Laboratory Analyses

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

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

2.3 Field and Laboratory Analytical Results

Field screening readings for VOCs via OVM ranged from 0.2 ppm in S-3 and S-5 up to 1.2 ppm in S-4. Field TPH concentrations ranged from less than 20.0 mg/kg in S-5 up to 33.6 mg/kg in S-1. The field chloride concentration in SC-1 was 40 mg/kg. Field screening results are summarized in Table 1 and presented on Figure 2. The AES Field Screening Report is attached.

Table 1. Soil Field Screening VOCs, TPH, and Chloride Results San Juan 30-6 #488S BGT Closure, May 2013

Sample ID	Date Sampled	Depth below BGT (ft)	VOCs OVM Reading (ppm)	Field TPH (mg/kg)	Field Chlorides (mg/kg)
NMOCD Action L		.15.17.13E)	=	100	250
S-1	5/9/13	0.5	0.5	33.6	NA
S-2	5/9/13	0.5	0.3	22.6	NA
S-3	5/9/13	0.5	0.2	21.3	NA
S-4	5/9/13	0.5	1.2	28.1	NA
S-5	5/9/13	0.5	0.2	<20.0	NA
SC-1	5/9/13	0.5	0.4	NA	40

NA - not analyzed

Laboratory analytical results reported benzene and total BTEX concentrations in SC-1 as less than 0.050 mg/kg and 0.25 mg/kg, respectively. 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 #488S BGT Closure, 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		0.2	50	1	00	250
SC-1	5/9/13	0.5	<0.050	<0.25	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 were below the NMOCD action level of 100 mg/kg, with the highest concentration reported in S-1 with 33.6 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 and laboratory analytical results for benzene, total BTEX, TPH, and chlorides, no further work is recommended at the San Juan 30-6 #488S.

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

Landrea R. Cupps

Elizabeth McNally, P.E.

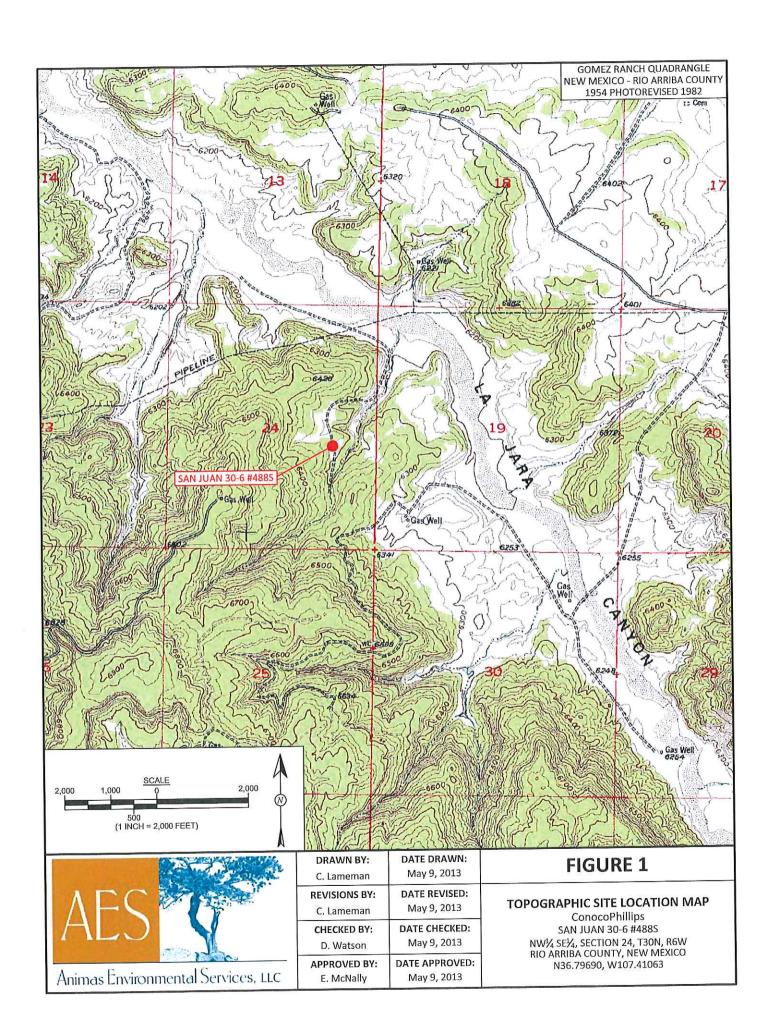
Elizabeth V McNelly

Crystal Tafoya San Juan 30-6 #488S BGT Closure Report May 23, 2013 Page 5 of 5

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, May 2013 AES Field Screening Report 050913 Hall Analytical Report 1305411

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\SJ 30-6 #488S\San Juan 30-6 #488S BGT Closure Report 052313.docx





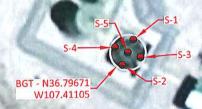
SAMPLE LOCATIONS

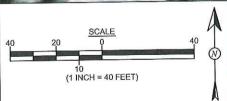
	Field Scr	eening R	esults	
Sample ID	Date	OVM- PID (ppm)	TPH (mg/kg)	Chlorides (mg/kg)
NMOCD ACT	TION LEVEL		100	250
S-1	5/9/13	0.5	33.6	NA
S-2	5/9/13	0.3	22.6	NA
S-3	5/9/13	0.2	21.3	NA
S-4	5/9/13	1.2	28.1	NA
S-5	5/9/13	0.2	<20.0	NA
SC-1	5/9/13	0.4	NA	40

		Laborato	ry Analytico	al Results		
Sample ID	Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL		0.2	50	10	00	250
SC-1	5/9/13	<0.050	<0.25	NA	NA	<30

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







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



DATE DRAWN:
May 9, 2013
DATE REVISED:
May 9, 2013
DATE CHECKED:
May 9, 2013
DATE APPROVED:
May 9, 2013

AERIAL SITE MAP BELOW GRADE TANK CLOSURE MAY 2013

FIGURE 2

ConocoPhillips SAN JUAN 30-6 #488S NW¼ SE¼, SECTION 24, T30N, R6W RIO ARRIBA COUNTY, NEW MEXICO N36.79690, W107.41063

AES Field Screening Report

Client: ConocoPhillips

Project Location: San Juan 30-6 #488S

Date: 5/9/2013

Matrix: Soil



Heather M. Woods

www.animasenvironmental.com

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

Durango, Colorado 970-403-3084

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field Chloride (mg/kg)	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1	5/9/2013	12:24	North	0.5	NA	33.6	20.0	1	HMW
SB-2	5/9/2013	12:25	South	0.3	NA	22.6	20.0	1	HMW
SB-3	5/9/2013	12:26	East	0.2	NA	21.3	20.0	1	HMW
SB-4	5/9/2013	12:27	West	1.2	NA	28.1	20.0	1	HMW
N 7-24	5/9/2013	12:28	Center	0.2	NA	<20.0	20.0	1	HMW
SB-5 SC-1	5/9/2013	12:30	Composite	0.4	40	1	Not analyzed fo	or field TPH	

PQL

Practical Quantitation Limit

ND

Not Detected at the Reporting Limit

NA

Not Analyzed

DE

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:

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 #488S OrderNo.: 1305411

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 1305411

Date Reported: 5/14/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

CoP San Juan 30-6 #488S Project:

1305411-001 Lab ID:

Client Sample ID: SC-1

Collection Date: 5/9/2013 12:30:00 PM

Received Date: 5/10/2013 10:00:00 AM Matrix: MEOH (SOIL)

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
					Analyst: JRR
EPA METHOD 300.0: ANIONS	ND	30	mg/Kg	20	5/10/2013 1:00:32 PM
Chloride		00	99		Analyst: RAA
EPA METHOD 8260B: VOLATILES S	SHORT LIST			100	5/10/2013 1:12:04 PM
Benzene	ND	0.050	mg/Kg	1	THE STRUCTURE INTERNATION OF STRUCT
50 E	ND	0.050	mg/Kg	1	5/10/2013 1:12:04 PM
Toluene	ND	0.050	mg/Kg	1	5/10/2013 1:12:04 PM
Ethylbenzene	ND	0.10	mg/Kg	1	5/10/2013 1:12:04 PM
Xylenes, Total		70-130	%REC	1	5/10/2013 1:12:04 PM
Surr: 1,2-Dichloroethane-d4	85.8	United the Address of	5055355E255	1	5/10/2013 1:12:04 PM
Surr: 4-Bromofluorobenzene	88.8	70-130	%REC	- 1	5/10/2013 1:12:04 PM
Surr: Dibromofluoromethane	91.6	70-130	%REC	1	
Surr: Toluene-d8	93.8	70-130	%REC	1	5/10/2013 1:12:04 PM

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

Qualifiers:

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

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

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1305411

14-May-13

Client:

Animas Environmental

Project:

CoP San Juan 30-6 #488S

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:

15.00

SegNo: 298384

Units: mg/Kg

Analysis Date: 5/10/2013 PQL

7.5

117

Analyte

Result 14 SPK value SPK Ref Val

%REC 91.9

HighLimit LowLimit

RPDLimit %RPD

Qual

Chloride

Sample ID 1305367-001AMSD

SampType: MSD Batch ID: 7384 TestCode: EPA Method 300.0: Anions RunNo: 10562

64.4

117

Client ID: Prep Date:

BatchQC 5/10/2013

Analysis Date: 5/10/2013

SeqNo: 298385

Units: mg/Kg

RPDLimit

Qual

Analyte

PQL Result

7.5

SPK value SPK Ref Val

15.00

%REC LowLimit 64.4 90.0

HighLimit

%RPD 2.14

20

Chloride

Sample ID 1305413-001AMS

13 SampType: MS

Result

Result

45

44

RunNo: 10562

TestCode: EPA Method 300.0: Anions

Prep Date: 5/10/2013

Client ID: BatchQC

Batch ID: 7384

0

34.12

Analyte

Analysis Date: 5/10/2013 SPK value SPK Ref Val

SeqNo: 298401 %REC

Units: mg/Kg

RPDLimit HighLimit %RPD

Qual

Chloride

Sample ID 1305413-001AMSD

SampType: MSD

PQL

30

TestCode: EPA Method 300.0: Anions

65.0

64.4

LowLimit

Client ID: Prep Date:

BatchQC

Batch ID: 7384

RunNo: 10562

64.4

117

Qual

Page 2 of 4

Analyte

5/10/2013

Analysis Date: 5/10/2013

SeqNo: 298402

Units: mg/Kg

RPDLimit

Chloride

SPK value SPK Ref Val PQL. 34.12 15.00 30

15.00

%REC 75.8 LowLimit

HighLimit 117 %RPD 3.65

20

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range Е

Analyte detected below quantitation limits

Sample pH greater than 2

В

Holding times for preparation or analysis exceeded H

RPD outside accepted recovery limits

Reporting Detection Limit

Analyte detected in the associated Method Blank

Not Detected at the Reporting Limit ND

Spike Recovery outside accepted recovery limits S

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1305411

14-May-13

Client: Animas Environmental
Project: CoP San Juan 30-6 #488S

Sample ID mb-7366	SampT	уре: МЕ	BLK	Test	Code: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batch	1D: R1	0546	R	RunNo: 10	0546				
Prep Date: 5/9/2013	Analysis D	ate: 5/	10/2013	S	SeqNo: 2	98232	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					400			
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		84.2	70	130			
Surr: 4-Bromofluorobenzene	0.44		0.5000		88.2	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		91.3	70	130			
Surr: Toluene-d8	0.49		0.5000		97.5	70	130			

Sample ID Ics-7366	SampT	ype: LC	s	Test	Code: EF	A Method	8260B: Volat	iles Short	List	
Client ID: LCSS	Batch	1D: R1	0546	R	RunNo: 10)546				
Prep Date: 5/9/2013	Analysis D	ate: 5/	10/2013	S	SeqNo: 29	98233	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.050	1.000	0	93.5	70	130			
	1.0	0.050	1.000	0	104	80	120			
Toluene	0.43	0.000	0.5000		86.2	70	130			
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		87.8	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		90.5	70	130			
Surr: Dibromofluoromethane Surr: Toluene-d8	0.48		0.5000		95.5	70	130			

Sample ID 1305408-001AMS	SampT	ype: MS		Test	Code: EF	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC	Batch	ID: R1	0546	R	tunNo: 10	0546				
Prep Date:	Analysis D	ate: 5/	10/2013	S	SeqNo: 2	98234	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	0.91	0.050	1.000	0.01652	89.0	67.5	124			
Benzene	0.92	0.050	1.000	0	92.1	55.8	142			
Toluene Surr: 1,2-Dichloroethane-d4	0.43	0,000	0.5000		86.9	70	130			
	0.48		0.5000		95.0	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		91.8	70	130			
Surr: Dibromofluoromethane Surr: Toluene-d8	0.42		0.5000		84.5	70	130			

Sample ID 1305408-001AN	ISD Samp	Гуре: МЅ	SD	Test	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC		h ID: R1	0546	R	tunNo: 1	0546							
Prep Date:	Analysis [Date: 5/	10/2013	S	SeqNo: 2	98235	Units: mg/K	(g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
	0.90	0.050	1.000	0.01652	88.3	67.5	124	0.698	20				
lenzene	0.88	0.050	1.000	0	87.8	55.8	142	4.85	20				
Toluene Surr: 1,2-Dichloroethane-d4	0.44	0.000	0.5000		87.2	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
- S Spike Recovery outside accepted recovery limits

Page 3 of 4

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1305411

14-May-13

Client:

Animas Environmental

Project:

CoP San Juan 30-6 #488S

i Tojece.																	
Sample ID	1305408-001AMSD	SampTy	/pe: M \$	SD	TestCode: EPA Method 8260B: Volatiles Short List												
Client ID:	BatchQC		ID: R1	0546	R	tunNo: 10	0546										
Prep Date:		Analysis Da	ate: 5	/10/2013	S	SeqNo: 2	98235	Units: mg/K	(g								
. 1 Fill of 10 \$100 care along the file		Doguit	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Analyte		Result	FUL	0.5000	OF ICHO! Va.	98.0	70	130	0	0							
	nofluorobenzene	0.49				91.4	70	130	0	0							
Surr: Dibron	nofluoromethane	0.46		0.5000				130	0	0							
Surr: Toluer	ie-d8	0.42		0.5000		84.3	70	130	U	v							

Qualifiers:

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

S

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: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Lagged By: Michelle Carcia	Client Name: Animas Environmental Work Order Number:	1305411		RcptNo: 1
Logged By: Mitchelle Garcia	Pages land by Idator 24 05 10 13			
Country Coun	540,000,00	*	Michelle Cone	
Country Coun			Missu.C.	
Chein of Custody	Completed By: Michelle Garcia 5/10/2013, 10:18:42 AM		прини урки	
1. Custody seals intact on sample bottles? 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In 4. Was an altempt made to cool the samples? 5. Were all samples received at a temperature of >0°C to 6.0°C 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? 9. Was preservative added to bottles? 10. VOA vials have zero headspace? 11. Were any sample containers received broken? 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Person Notified: By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Gooler Information Gooler Information	Reviewed By: 04 1013			
1. Custody seals intact on sample bottles? 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In 4. Was an attempt made to cool the samples? Yes V No No Na Na Samples received at a temperature of >0°C to 6.0°C Yes V No Na Na Na Samples in proper container(s)? 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? 9. Was preservative added to bottles? 10. VOA vials have zero headspace? 11. Were any sample containers received broken? 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (If applicable) 16. Was client notified of all discrepancies with this order? Yes No	Chain of Custody			Net December [4]
2. Is Chain of Custody complete? 3. How was the sample delivered? Courier 4. Was an attempt made to cool the samples? 5. Were all samples received at a temperature of >0* C to 6.0*C 6. Sample(s) in proper container(s)? 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? 9. Was preservative added to bottles? 10. VOA vials have zero headspace? 11. Were any sample containers received broken? 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? 15. Were all hottling times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Yes No	1. Custody seals intact on sample bottles?		- (50)	
Was an attempt made to cool the samples?	2. Is Chain of Custody complete?	Yes 🔽	No L	Not Plesent 🗀
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