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

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

Form C-144 Revised June 6, 2013

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

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

Pit, Below-Grade Tank, or
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 nvironment. 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: Lively 8
API Number: 30-045-21109 OCD Permit Number:
U/L or Qtr/Qtr N (SESW) Section 12 Township 29N Range 8W County: San Juan
Center of Proposed Design: Latitude <u>36.73549 ºN</u> Longitude <u>-107.63123 ºW</u> NAD: □1927 ☑ 1983
Surface Owner: X Federal X State Private 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: Lx Wx D
3. Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume:
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

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)	
Signs: Subsection C of 19.15.17.11 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers Signed in compliance with 19.15.16.8 NMAC	
Variances and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptance are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No 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
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	Yes No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
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 Naturations: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docattached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number:	O NMAC 15.17.9 NMAC
Previously Approved Design (attach copy of design) APT Number.	
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	9.15.17.9 NMAC

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	locuments are
13.	
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Flandstructive 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	uid Management Pit
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	
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.	ce material are llease refer to
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ 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	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	
Within a 100-year floodplain FEMA map	☐ Yes ☐ No ☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure p 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 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 can 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	7.11 NMAC 1.15.17.11 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 be. Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
18. OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (enly) ☐ OCD Conditions (see attachment)	/2046
OCD Representative Signature: Approval Date: 6/27/	2016
Title: Compliance Officer OCD Permit Number:	
19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submittin. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed. □ Closure Completion Date: 7/17/2013	g the closure report. ot complete this
20.	
Closure Method: ☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-I ☐ If different from approved plan, please explain.	oop systems only)
21.	

22.	
Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this cl belief. I also certify that the closure complies with all applicable closure re	osure report is true, accurate and complete to the best of my knowledge and quirements and conditions specified in the approved closure plan.
Name (Print) <u>Crystal Walker</u> Title: <u>R</u>	egulatory Coordinator
Signature: Satal Walke	Date: 2/10/2016
e-mail address: <u>crystal.walker@cop.com</u> Telephone: (505) 326-9	0837

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

Lease Name: Lively 8 API No.: 30-045-21109

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.

4. 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

6. 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.

7. 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 is missing.

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

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

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

11. 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 (Missing)



REFS / PTRRC – San Juan Business Unit Property Tax, Real Estate, ROW & Claims Alice Maxwell

3401 East 30th Street Farmington, NM 87402 Telephone: (505) 599-4082 Facsimile: (505) 324-6136 Mary.A.Maxwell@conocophillips.com

February 18, 2013

Fidel J. Candelaria Ojo De La Cueva Blanco, NM 87412

Subject:

Plug and Abandon

Lively 8

SW Section 12, T29N, R8W San Juan County, New Mexico

Dear Grazing Permittee:

ConocoPhillips Company is hereby notifying you of its intent to plug and abandon the above-referenced well situated on your BLM grazing lands.

If you have any concerns regarding this work, please leave a message on our PTRRC hotline at (505) 324-6111 within five (5) days of receiving this letter.

Sincerely,

Mary Alice Maxwell
Mary Alice Maxwell

PTRRC Associate

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

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office to accordance with 19.15.29 NMAC.

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

Release Notification and Corrective Action	
OPERATOR Initial Rep	port Final Report
Name of Company Burlington Resources Oil & Gas Company Contact Crystal Walker	
Address 3401 East 30 th St, Farmington, NM Telephone No.(505) 326-9837 Facility Name: Lively 8 Facility Type: Gas Well	
	ME 21100
Surface Owner BLM Mineral Owner BLM API No.30-04	J45-21109
LOCATION OF RELEASE	SS02 53
Unit LetterSectionTownshipRangeFeet from theNorth/South LineFeet from theEast/West LineCourN1229N8W1180South1450WestSan	Juan
Latitude 36.73549 Longitude -107.63123	
NATURE OF RELEASE	
Type of Release Volume of Release Volume Recove	ered
Source of Release Date and Hour of Occurrence Date and Hour of	of Discovery
Was Immediate Notice Given? If YES, To Whom?	
☐ Yes ☐ No ☒ Not Required	
By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse.	
Was a Watercourse Reached? ☐ Yes ☑ No ☐ If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*	
N/A	
Describe Cause of Problem and Remedial Action Taken.* No release was encountered during the BGT Closure.	
Two release was encountered during the DGT closure.	
Describe Area Affected and Cleanup Action Taken.*	
N/A	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to	to NMOCD rules and
regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases v	which may endanger
public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface	face water, human health
or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for complia	iance with any other
federal, state, or local laws and/or regulations. OIL CONSERVATION DIV	/ISION
Signature:	/ IBIOIN
Assumed by Paving an antal Specialists	
Printed Name: Crystal Walker Approved by Environmental Specialist:	
Title: Regulatory Coordinator Approval Date: Expiration Date:	
Conditions of Approval:	
Atta	tached

^{*} Attach Additional Sheets If Necessary



September 16, 2013

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

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

RE: Below Grade Tank Closure Report Lively #8

San Juan 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) Lively #8, located in San Juan 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 - Lively #8

Legal Description – SE¼ SW¼, Section 12, T29N, R8W, San Juan County, New Mexico Well Latitude/Longitude – N36.73566 and W107.63127, respectively BGT Latitude/Longitude – N36.73549 and W107.63123, respectively Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, July 2013

1.2 Depth to Groundwater Determination (NMAC 19.15.17.13 Table 1)

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a cathodic report dated May 1991 for the Vandewart #1, located approximately 450 feet southwest and at approximately the same elevation as the Lively #8, reported the depth to groundwater 110 feet below ground surface (bgs). AES

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

> Durango, Colorado 970-403-3084

Crystal Tafoya Lively #8 BGT Closure Report September 16, 2013 Page 2 of 5

personnel further assessed the depth to water determination using topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site was greater than 100 feet bgs.

1.3 BGT Closure Assessment

AES was initially contacted by Bruce Ashcroft, CoP representative, on July 16, 2013, and on July 17, 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 July 17, 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 8021B;
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D; and
- Chloride per USEPA Method 300.0.

2.3 Field and Laboratory Analytical Results

Field screening readings for VOCs were reported at 0.0 ppm in all samples. Field TPH concentrations ranged from 49.6 mg/kg in S-4 up to 68.5 mg/kg in S-2. 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
Lively #8 BGT Closure, July 2013

Sample ID	Date Sampled	Depth below BGT (ft)	VOCs OVM Reading (ppm)	Field TPH (418.1) (mg/kg)	Field Chlorides (mg/kg)
	NMOCD / (NMAC 19.15.17	Action Level .13 Table 1)	-	2,500	600*
S-1	7/17/13	0.5	0.0	57.2	NA
S-2	7/17/13	0.5	0.0	68.5	NA
S-3	7/17/13	0.5	0.0	63.5	NA
S-4	7/17/13	0.5	0.0	49.6	NA
S-5	7/17/13	0.5	0.0	53.4	NA
SC-1	7/17/13	0.5	0.0	NA	40

^{*}Action Level for chlorides is based on reclamation standard as outlined within NMAC 19.15.17.13H(2); 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. TPH concentrations as GRO and DRO were reported at less than 5.0 mg/kg and 9.9 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 Lively #8 BGT Closure, July 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)
NMOCD Action Level (NMAC 19.15.17.13 Table 1)		10	50	1,0	000	600*	
SC-1	7/17/13	0.5	<0.050	<0.25	<5.0	<9.9	<30

^{*}Action Level for chlorides is based on reclamation standard as outlined within NMAC 19.15.17.13H(2); NA - not analyzed

3.0 Conclusions and Recommendations

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13 Table 1. Field TPH concentrations were below the NMOCD action level of 2,500 mg/kg, with the highest concentration reported in S-2 with 68.5 mg/kg. Laboratory analytical results for TPH (as GRO/DRO) in SC-1 were reported below the NMOCD action level of 1,000 mg/kg, and benzene and total BTEX concentrations in SC-1 were below the NMOCD action levels of 10 mg/kg and 50 mg/kg, respectively. Chloride concentrations in SC-1 were below the NMOCD action level of 600 mg/kg. Based on field screening and laboratory analytical results for benzene, total BTEX, TPH, and chlorides, no further work is recommended at the Lively #8.

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

Sincerely,

David Reese

Environmental Scientist

David of Reve

Crystal Tafoya Lively #8 BGT Closure Report September 16, 2013 Page 5 of 5

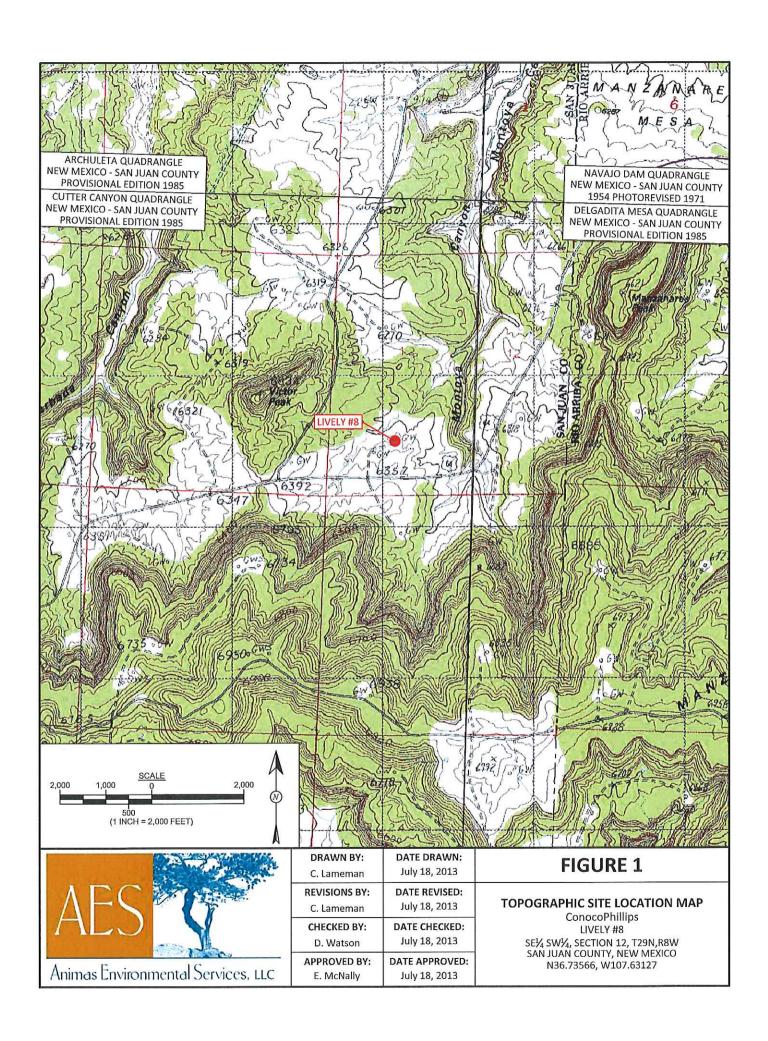
Elizabeth V MiNelly

Elizabeth McNally, P.E

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, July 2013 AES Field Screening Report 071713 Hall Analytical Report 1307839

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\Lively #8\Cop Lively #8 Closure Report 091613.docx





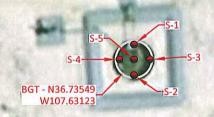
SAMPLE LOCATIONS

	Field Scr	eening R	esults	
Sample ID	Date	OVM- PID (ppm)	418.1 TPH (mg/kg)	Chlorides (mg/kg)
NMOCD AC	TION LEVEL	155	2,500	600
S-1	7/17/13	0.0	57.2	NA
S-2	7/17/13	0.0	68.5	NA
S-3	7/17/13	0.0	63.5	NA
S-4	7/17/13	0.0	49.6	NA
S-5	7/17/13	0.0	53.4	NA
SC-1	7/17/13	0.0	NA	40

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

TPH -	
DRO I	lorides 1g/kg)
)	600
<9.9	<30







State of the state	C.
	REV
	C. 1

Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
C. Lameman	July 18, 2013
REVISIONS BY:	DATE REVISED:
C. Lameman	July 18, 2013
CHECKED BY:	DATE CHECKED:
D. Watson	July 18, 2013
APPROVED BY:	DATE APPROVED:
E. McNally	July 18, 2013

FIGURE 2

AERIAL SITE MAP BELOW GRADE TANK CLOSURE JULY 2013

ConocoPhillips LIVELY #8 SE¼ SW¼, SECTION 12, T29N,R8W SAN JUAN COUNTY, NEW MEXICO N36.73566, W107.63127

AES Field Screening Report



Animas Environmental Services, LLC www.animasenvironmental.com 624 E. Comanche Farmington, NM 87401 505-564-2281

Durango, Colorado 970-408-3084

Date: 7/17/2013 Project Location: Lively #8

Matrix: Soil

Client: ConocoPhillips

		Time of			Field	Field TPH			4034	HdT
Cl clamcs	Collection	Sample	Sample	MVO	Chloride	Analysis	Field TPH*	TPH PQL	2	Analysts
S-1	1	8:03	North	0.0	NA NA	8:33	57.2	20.0	2 ~	MMH
S-2	7/17/2013	8:04	South	0.0	NA	8:35	68.5	20.0	1	нмм
S-3	7/17/2013	8:05	East	0.0	NA	8:37	63.5	20.0	1	нмм
S-4	7/17/2013	8:06	West	0.0	NA	8:39	49.6	20.0	Т	нмм
S-5	7/17/2013	8:07	Center	0.0	NA	8:41	53.4	20.0	Н	нмм
SC-1	7/17/2013	8:09	Composite	0.0	40		Not,	Not Analyzed for TPH.	'n.	

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with

Silver Nitrate

Total Petroleum Hydrocarbons - USEPA 418.1

Not Analyzed ΑN

Not Detected at the Reporting Limit

Practical Quantitation Limit

PQL ND

Dilution Factor

*Field TPH concentrations recorded may be below PQL.

Analyst:



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

July 19, 2013

Debbie Watson Animas Environmental 624 East Comanche Farmington, NM 87401 TEL: (505) 486-4071

FAX

RE: COP Lively #8

OrderNo.: 1307839

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/18/2013 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. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1307839

Date Reported: 7/19/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

s Environmental Client Sample ID: SC-1
sively #8 Collection Date: 7/17/2013 8:09:00 AM

Project: COP Lively #8 Lab ID: 1307839-001

Matrix: MEOH (SOIL) Received Date: 7/18/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/18/2013 12:26:59 PM	8425
Surr: DNOP	89.6	63-147	%REC	1	7/18/2013 12:26:59 PM	8425
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/18/2013 11:36:07 AM	R12043
Surr: BFB	94.4	80-120	%REC	1	7/18/2013 11:36:07 AM	R12043
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.050	mg/Kg	1	7/18/2013 11:36:07 AM	R12043
Toluene	ND	0.050	mg/Kg	1	7/18/2013 11:36:07 AM	R12043
Ethylbenzene	ND	0.050	mg/Kg	1	7/18/2013 11:36:07 AM	R12043
Xylenes, Total	ND	0.10	mg/Kg	1	7/18/2013 11:36:07 AM	R12043
Surr: 4-Bromofluorobenzene	98.8	80-120	%REC	1	7/18/2013 11:36:07 AM	R12043
EPA METHOD 300.0: ANIONS					Analyst	:: JRR
Chloride	ND	30	mg/Kg	20	7/18/2013 12:26:18 PM	8455

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
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 1 of 5
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307839 19-Jul-13

Client:

Animas Environmental

Project:

COP Lively #8

Sample ID	MB-8455
1	

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 8455

PQL

1.5

RunNo: 12061

Prep Date: 7/18/2013 Analysis Date: 7/18/2013

SeqNo: 342960

Units: mg/Kg

Analyte

Result

HighLimit

%RPD **RPDLimit**

Qual

Chloride

ND

Sample ID LCS-8455

SampType: LCS

TestCode: EPA Method 300.0: Anions

LCSS Client ID:

Batch ID: 8455

RunNo: 12061

Prep Date: 7/18/2013

SeqNo: 342961

Units: mg/Kg

Analyte

Analysis Date: 7/18/2013 PQL

Chloride

14 1.5 15.00

SPK value SPK Ref Val

%REC 92.2

HighLimit 110 %RPD **RPDLimit** Qual

Sample ID 1307687-001AMS

SampType: MS

SPK value SPK Ref Val %REC LowLimit

TestCode: EPA Method 300.0: Anions

90

LowLimit

Client ID: **BatchQC** Prep Date: 7/18/2013

Batch ID: 8455

RunNo: 12061

Units: mg/Kg

Analyte

Result

Analysis Date: 7/18/2013

SeqNo: 342964

%RPD

Result

SPK value SPK Ref Val %REC

LowLimit 58.8 HighLimit

Qual

Chloride

14

Result

12

PQL 1.5

15.00 0.7227 89.8

109

RPDLimit

Sample ID 1307687-001AMSD

SampType: MSD

TestCode: EPA Method 300.0: Anions

RunNo: 12061

Client ID: Prep Date: BatchQC

7/18/2013

Analysis Date: 7/18/2013

Batch ID: 8455

SegNo: 342965

Units: mg/Kg

Qual

Analyte Chloride

PQL

1.5

SPK value SPK Ref Val

15.00

0.7227

%REC LowLimit 76.7

58.8

HighLimit 109 %RPD 15.0

RPDLimit 20

Qualifiers:

E

R

Value exceeds Maximum Contaminant Level.

RPD outside accepted recovery limits

J Analyte detected below quantitation limits

RSD is greater than RSDlimit 0

Value above quantitation range

В Analyte detected in the associated Method Blank

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Page 2 of 5

Sample pH greater than 2 for VOA and TOC only. P

Hall Environmental Analysis Laboratory, Inc.

WO#: 1307839

19-Jul-13

Client:

Animas Environmental

Project:

COP Lively #8

1472	3059									
Sample ID MB-8425	SampT	уре: МЕ	BLK	Tes	Code: El	PA Method	8015D: Diese	el Range C	Organics	
Client ID: PBS	Batch	ID: 84	25	F	tunNo: 1	2041				
Prep Date: 7/17/2013	Analysis D	ate: 7/	18/2013	S	SeqNo: 3	42321	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.6		10.00		96.2	63	147			
Sample ID LCS-8425	SampT	ype: LC	s	Tes	Code: El	PA Method	8015D: Diese	el Range C	Organics	
Client ID: LCSS	Batch	ID: 84	25	F						
Prep Date: 7/17/2013	Analysis D	ate: 7/	18/2013	5	SeqNo: 3	42322	Units: mg/K	(g		
Tiop Batter Tittime te	00 000 100 • 000 000 000 000									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
State (State (St	Result 45	PQL 10	SPK value 50.00	SPK Ref Val	%REC 90.9	LowLimit 77.1	HighLimit 128	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

750

728.9

WO#: 1307839

19-Jul-13

Client:

Animas Environmental

Project:	COP Live	ely #8											
Sample ID	5ML RB	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	е			
Client ID:	PBS	Batch	ID: R1	2043	F	RunNo: 1	2043						
Prep Date:		Analysis D	ate: 7/	18/2013	(SeqNo: 3	42841	Units: mg/k	(g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang	e Organics (GRO)	ND	5.0										
Surr: BFB		940		1000		93.7	80	120					
Sample ID	2.5UG GRO LCSB	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	е			
Client ID:	LCSS	Batch	ID: R1	2043	F	RunNo: 1	2043						
Prep Date:		Analysis D	ate: 7/	18/2013	Ş	SeqNo: 3	42842	Units: mg/k	(g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang	e Organics (GRO)	27	5.0	25.00	0	107	62.6	136					
Surr: BFB		1000		1000		103	80	120					
Sample ID	1307839-001AMS	SampT	ype: MS	3	TestCode: EPA Method 8015D: Gasoline Range								
Client ID:	SC-1	Batch	ID: R1	2043	RunNo: 12043								
Prep Date:		Analysis D	ate: 7/	18/2013	5	SeqNo: 3	42845	Units: mg/K	(g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang	e Organics (GRO)	20	5.0	18.22	0	108	76	156					
Surr: BFB		730		728.9		101	80	120					
Sample ID	1307839-001AMSE	SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e			
Client ID:	SC-1	Batch	ID: R1	2043	F	RunNo: 1	2043						
Prep Date:		Analysis D	ate: 7/	18/2013	8	SeqNo: 3	42846	Units: mg/K	(g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang	e Organics (GRO)	19	5.0	18.22	0	102	76	156	5.34	17.7			

Qualifiers:

Surr: BFB

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

103

80

120

- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1307839

19-Jul-13

Client:

Animas Environmental

Project:

COP Lively #8

Project:	COP Live	1y #8												
Sample ID	5ML RB	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles					
Client ID:	PBS	Batch	1D: R1	2043	F	RunNo: 1	2043							
Prep Date:		Analysis D	ate: 7/	18/2013	8	SeqNo: 3	42868	Units: mg/k	(g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		ND	0.050											
Toluene		ND	0.050											
Ethylbenzene		ND	0.050											
Xylenes, Total		ND	0.10											
Surr: 4-Brom	nofluorobenzene	0.98		1.000		97.8	80	120						
Sample ID	100NG BTEX LCS	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles					
Client ID:	LCSS	Batch	1D: R1	2043	F	RunNo: 1	2043							
Prep Date:		Analysis D	ate: 7/	18/2013	8	SeqNo: 3	42869	Units: mg/k	(g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		1.0	0.050	1.000	0	103	80	120						
Toluene		1.0	0.050	1.000	0	105	80	120						
Ethylbenzene		1.0	0.050	1.000	0	103	80	120						
Xylenes, Total		3.1	0.10	3.000	0	104	80	120						
Surr: 4-Brom	nofluorobenzene	1.0		1.000		101	80	120						
Sample ID	1307839-001AMS	SampT	ype: MS	3	TestCode: EPA Method 8021B: Volatiles									
Client ID:	SC-1	Batch	n ID: R1	2043	F	RunNo: 1	2043							
Prep Date:		Analysis D	ate: 7/	18/2013	5	SeqNo: 3	42871	Units: mg/k	(g					
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		0.77	0.050	0.7289	0	105	67.3	145						
Toluene		0.77	0.050	0.7289	0	105	66.8	144						
Ethylbenzene		0.77	0.050	0.7289	0	105	61.9	153						
Xylenes, Total		2.3	0.10	2.187	0	106	65.8	149						
Surr: 4-Brom	nofluorobenzene	0.76		0.7289		104	80	120						
Sample ID	1307839-001AMSE) SampT	уре: М	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles					
Client ID:	SC-1	Batcl	n ID: R1	2043	F	RunNo: 1	2043							
Prep Date:		Analysis D)ate: 7/	18/2013	5	SeqNo: 3	42872	Units: mg/h	(g					
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene		0.75	0.050	0.7289	0	103	67.3	145	2.37	20				
Toluene		0.74	0.050	0.7289	0	102	66.8	144	3.55	20				
Ethylbenzene		0.75	0.050	0.7289	0	103	61.9	153	1.65	20				

Qualifiers:

Xylenes, Total

Surr: 4-Bromofluorobenzene

Value exceeds Maximum Contaminant Level.

2.3

0.76

0.10

2.187

0.7289

- E Value above quantitation range
- J Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

65.8

80

149

120

2.14

0

- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit

103

105

- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

0

Page 5 of 5

20

0



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number:	1307839		RoptNo: 1
Received by/date: Logged By: Ashley Gallegos 7/18/2013 10:00:00 AM Completed By: Ashley Gallegos 7/18/2013 10:22:43 AM Reviewed By: ### ### ###########################		A	,
Chain of Custody /	200 8	we 1.1	NI D
1. Custody seals intact on sample bottles?	Yes	No i	Not Present
2. Is Chain of Custody complete?	Yes i V i	No i	Not Present
3. How was the sample delivered?	Courier		
<u>Log In</u>			
4. Was an attempt made to cool the samples?	Yes 🗸	No !	NA I I
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗸	No !	NA i
6. Sample(s) in proper container(s)?	Yes 🗸	No !!	
7. Sufficient sample volume for indicated test(s)?	Yes 🗸	No I I	
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗸	No :	
9. Was preservative added to bottles?	Yes !	No 🗸	NA !
10.VOA vials have zero headspace?	Yes i	No · l	No VOA Vials ✔
11. Were any sample containers received broken?	Yes	No 🗸	# of preserved
	Section Section		bottles checked
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗸	No	for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗸	No '	Adjusted?
14. Is it clear what analyses were requested?	Yes 🗸	No ! i	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗸	No i i j	Checked by:
Special Handling (if applicable)			
16. Was client notified of all discrepancies with this order?	Yes	No :	NA :✔
Person Notified: Date:	lineal bloom of a constitution	non-management	
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17. Additional remarks:			•
18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No 1 1.0 Good Not Present	Seal Date	Signed By	

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