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.

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 Fe, NM 87505 to the appropriate NMOCD District Office. **RECEIVED** Pit, Below-Grade Tank, or By kcollins at 8:36 am, Apr 05, 2016 Proposed Alternative Method Permit or Closure Plan Application Type of action: Below grade tank registration 14684 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 Please 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 environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances. Constituents Exceed Standards outline Operator: Burlington Resources Oil & Gas Company, LP OGRID #: 14538 by 19.15.17.13 NMAC. Please submit a Address: PO BOX 4289, Farmington, NM 87499 separate C-141 under 19.15.29 NMAC Facility or well name: Huerfano 206 API Number: 30-045-20626_____ OCD Permit Number: **BGT CLOSED** U/L or Qtr/Qtr J Section 26 Township 26 N Range 9 W County: San Juan **PRIOR TO** Center of Proposed Design: Latitude 36.456771 N Longitude -107.755837 N NAD: ☐1927 ☐ 1983 CLOSURE PLAN Surface Owner: ☑ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment APPROVAL 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: Thickness ___mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D **Below-grade tank:** Subsection I of 19.15.17.11 NMAC bbl Type of fluid: Produced Water 120 Tank Construction material: Metal ☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off ☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other Liner type: Thickness 45 mil ☐ HDPE ☐ PVC ☒ Other LLDPE Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) 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 acceptate 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 ☐ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	Yes No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial 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 No Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doct attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.1 and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	uments are NMAC 5.17.9 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 doct 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 19.1 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:	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	documents are
### Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H₂S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F	luid 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	•
14.	20 W W W
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.	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
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 □ NoYes □ No
16.	
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. 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 cannot Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	11 NMAC 15.17,11 NMAC
17. Operator Application Certification:	Allica - Tauri - auce a
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	ef.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) COCD Conditions (see attachment)	See Front Page
OCD Representative Signature: Approval Date: 7/12/2	2016
Compliance Officer	
Title: Compliance Officer 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. Closure Completion Date:6/14/13	the closure report. complete this
20. Closure Method: Waste Excavation and Removal □ On-Site Closure Method □ Alternative Closure Method □ Waste Removal (Closed-lo	op systems only)
☐ If different from approved plan, please explain.	

22.
Operator Closure Certification:
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Larissa Farrell Title: <u>Regulatory Technician</u>
Signature: Jaison Famil Date: 4/1/16
e-mail address: Larissa.L.Farrell@cop.com Telephone: (505) 326-9504

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

Lease Name: Huerfano 206 API No.: 30-045-20626

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

General Plan:

1. BR shall close a below-grade tank within 60 days of cessation of operations per Subsection G.4 of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.

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 Başin 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 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 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)

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

Revised August 8, 2011 Submit 1 Copy to appropriate District Office in

Form C-141

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

accordance with 19.15.29 NMAC.

Release Notification and Corrective Action **OPERATOR** Initial Report Final Report Name of Company Burlington Resources, a Wholly Owned Contact Lisa Hunter Subsidiary of ConocoPhillips Company Address 3401 E. 30th St., Farmington, NM 87402 Telephone No. 505-326-9786 Facility Name Huerfano Unit 206 Facility Type Natural Gas Well Surface Owner Federal API No. 30045206260000 Mineral Owner Federal SF-078103-B LOCATION OF RELEASE Feet from the North/South Line Unit Letter Section Township Feet from the East/West Line Range County 26 09W 1850 J. 26N South 1750' East San Juan Latitude 36.45686 Longitude -107.75525 NATURE OF RELEASE Type of Release Unknown Volume of Release Unknown Volume Recovered 267 vds Source of Release Below Grade Tank Date and Hour of Occurrence Date and Hour of Discovery Unknown 06-14-2013 Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☐ No ☒ Not Required N/A By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* Below Grade Tank Closure Activities. Describe Area Affected and Cleanup Action Taken.* Historical impacted soil was found during the BGT closure for the subject well. The excavation was 24' x 25' x 12' in depth and 267 yds of contaminated soil was transported to IEI land farm and 267 yds of clean soil was backfilled in the excavation site. Analytical results were below the regulatory standards – no further action required. The soil sampling report is attached for review. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases 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 operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by Environmental Specialist: Printed Name: Lisa M. Hunter Title: Field Environmental Specialist Approval Date: **Expiration Date:** E-mail Address: Lisa.Hunter@cop.com Conditions of Approval: Attached

Phone: 505-326-9786

Date: 08-05-13

Attach Additional Sheets If Necessary



July 26, 2013

Lisa Hunter ConocoPhillips San Juan Business Unit Office 214-4 5525 Hwy 64 Farmington, New Mexico 87401 www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

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

RE: Below Grade Tank Closure and Final Excavation Report

Huerfano #206

San Juan County, New Mexico

Dear Ms. Hunter:

On June 14, 2013, Animas Environmental Services, LLC (AES) completed below grade tank (BGT) closure sampling and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) Huerfano #206, located in San Juan County, New Mexico. The historical release was discovered during BGT closure sampling at the location.

1.0 Site Information

1.1 Location

Site Name - Huerfano #206

Legal Description - NW¼ SE¼, Section 26, T26N, R9W, San Juan County, New Mexico Well Latitude/Longitude - N36.45700 and W107.75587, respectively BGT/Release Latitude/Longitude - N36.45675 and W107.75579, respectively Land Jurisdiction - Bureau of Land Management (BLM)

Figure 1 - Topographic Site Location Map

Figure 2 - Aerial Site Map, June 2013

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and no records were found to assist in determining depth to groundwater. The New Mexico Office of the State Engineer (NMOSE) database was reviewed, and wells SJ00063 and SJ00064 were located approximately 725 feet east-southeast and 850 feet northeast of the location. Because these are shallow domestic wells and are

greater than 200 feet from the location, they did not affect the site ranking. However, measurements from these wells were used to help determine depth to groundwater at the site, and depth to groundwater was reported to be 234 feet below ground surface (bgs) in well SJ00063 and 215 feet bgs in well SJ00064. 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 greater than 100 feet bgs. An ephemeral wash which drains to Blanco Wash is located approximately 800 feet southeast of the location. Based on this information, the location was assessed a ranking score of 10 per the NMOCD *Guidelines for Leaks, Spills, and Releases* (1993).

1.3 Assessments

AES was initially contacted by Freddie Martinez, CoP representative, on June 13, 2013, and on June 14, 2013, Deborah Watson and Stephanie Lynn of AES mobilized to the location. AES personnel initially 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. Five additional composite samples were collected from the walls and base of an excavation initiated and completed while AES was onsite. The final excavation measured 24 feet by 25 feet by 10 to 12 feet in depth. Sample locations are presented on Figures 2 and 3.

2.0 Soil Sampling

On June 14, 2013, during BGT closure sampling, 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. Based on field TPH results, CoP contractors began excavating while AES was onsite, and five additional composite samples (SC-2 through SC-6) were collected from the walls and base of the final excavation. All soil samples were field screened for VOCs and TPH. Two composite samples (SC-1 and SC-6) were submitted for confirmation laboratory analysis.

2.1 Soil Field Screening

2.1.1 Volatile Organic Compounds

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

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 soil samples (SC-1 and SC-6) collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto sample chain of custody records. The samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

■ TPH for gasoline range organics (GRO) and diesel range organics (DRO) per U.S. Environmental Protection Agency (USEPA) Method 8015D.

Soil sample (SC-1) was also analyzed for:

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

2.3 Soil Field and Laboratory Analytical Results

On June 14, 2013, BGT closure field screening readings for VOCs via OVM ranged from 0.6 ppm in S-1 to 622 ppm in S-4. Field TPH concentrations ranged from 123 mg/kg in S-1 to 23,500 mg/kg in S-5. The field chloride concentration in SC-1 was reported at 80 mg/kg.

Final excavation field screening results for VOCs via OVM ranged from 2.7 ppm in SC-6 up to 29.1 ppm in SC-4. Field TPH concentrations ranged from 64.5 mg/kg in SC-2 to 1,510 mg/kg in SC-6. Field screening VOC and TPH results are summarized in Table 1 and on Figures 2 and 3. The AES field screening reports are attached.

Table 1. Soil Field Screening VOCs, TPH, and Chloride Results Huerfano #206 BGT Closure and Final Excavation Report June 2013

Sample ID	Date Sampled	Sample Depth (ft)	VOCs OVM Reading (ppm)	Field TPH (mg/kg)	Chloride (mg/kg)
NM	OCD Action Leve	I	*/ 100**	100*/ 1,000**	250*
S-1	6/14/13	0.5	0.6	123	NA
S-2	6/14/13	0.5	0.7	151	NA
S-3	6/14/13	0.5	1.2	>2,500	NA
S-4	6/14/13	0.5	622	>2,500	NA
S-5	6/14/13	0.5	49.8	23,500	NA
SC-1	6/14/13	0.5	19.2	NA	80
SC-2	6/14/13	1 to 10	4.4	64.5	NA
SC-3	6/14/13	1 to 12	24.8	700	NA
SC-4	6/14/13	1 to 12	29.1	114	NA
SC-5	6/14/13	1 to 10	4.2	245	NA
SC-6	6/14/13	10 to 12	2.7	1,510	NA

NA – not analyzed

Laboratory analytical results for SC-1 (from below the former BGT) showed that benzene and total BTEX concentrations in SC-1 were less than 0.048 mg/kg and less than 0.24 mg/kg, respectively. The TPH concentration was less than 4.8 mg/kg GRO and 1,800 mg/kg DRO. The laboratory chloride concentration was reported at 150 mg/kg.

Laboratory analytical results for SC-6 (from the base of the final excavation) had TPH concentrations of less than 50 mg/kg GRO and 370 mg/kg DRO. Laboratory analytical results are summarized in Table 2 and included on Figures 2 and 3. Laboratory analytical reports are attached.

^{*}Action levels determined by NMAC 19.15.17.13E

^{**}Action levels determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993)

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, TPH, and Chlorides Huerfano #206 BGT Closure and Final Excavation Report

June 2013

			Julie 20	10				
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)	Chlorides (mg/kg)	
NMOC	D Action Level	3	0.2*/ 10**	50	100*/1,000**		250*	
SC-1	6/14/13	0.5	<0.048	<0.24	<4.8	1,800	150	
SC-6	6/14/13	10 to 12	NA	NA	<50	370	NA	

NA - not analyzed

3.0 Conclusions and Recommendations

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. Field TPH concentrations exceeded the NMOCD action level of 100 mg/kg in each sample. Laboratory analytical results for TPH (as GRO/DRO) in SC-1 were reported above the NMOCD action level of 100 mg/kg with 1,800 mg/kg DRO. However, 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 were reported below the NMOCD action level of 250 mg/kg. Based on field and laboratory analytical results, a release was confirmed at the location.

On June 14, 2013, final clearance of the excavation area was completed. Field screening results of the excavation showed that concentrations of VOCs and TPH were below NMOCD action levels for each of the final four walls of the excavation (SC-2 through SC-5). The base of the excavation (SC-6) exceeded NMOCD action levels for field TPH with 1,510 mg/kg; however, laboratory analytical results for SC-6 showed TPH concentrations as GRO/DRO below the NMOCD action level of 1,000 mg/kg with 370 mg/kg DRO.

Based on excavation of petroleum hydrocarbon impacted soils, field screening, and laboratory analytical results for VOCs, benzene, total BTEX, TPH, and chlorides, no further work is recommended for the Huerfano #206.

^{*}Action levels determined by NMAC 19.15.17.13E

^{**}Action levels determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993)

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

Sincerely,

Landrea Cupps

Environmental Scientist

Landre R. Cupps

Elizabeth McNally, P.E.

Elizabeth V MiNdly

Attachments:

Figure 1. Topographic Site Location Map

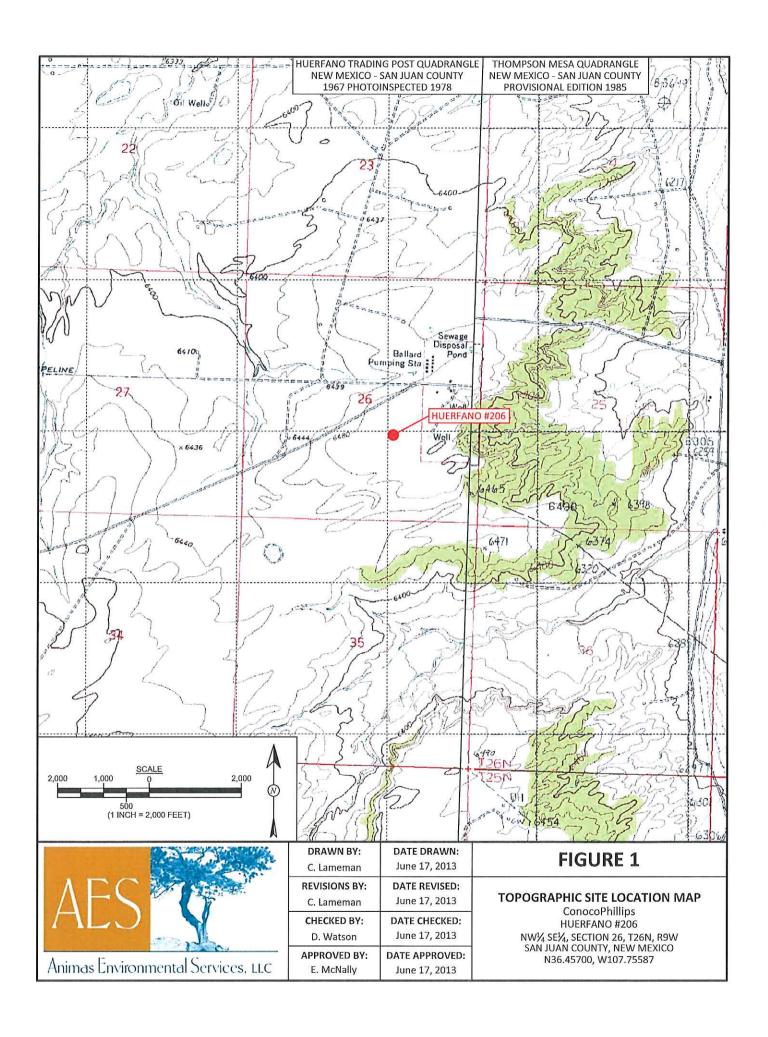
Figure 2. Aerial Site Map, June 2013

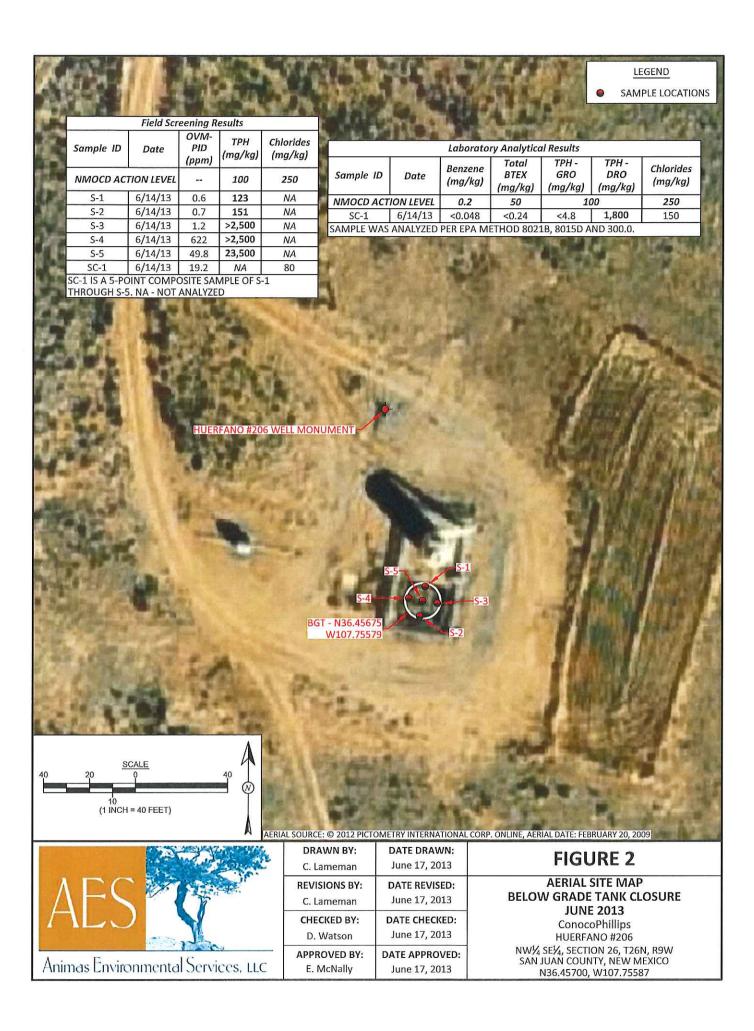
Figure 3. Final Excavation Sample Locations and Results, June 2013

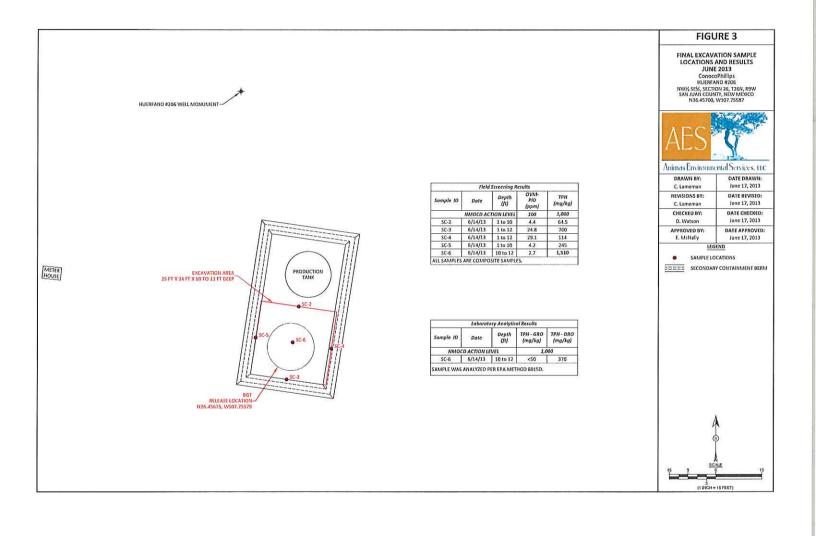
AES Field Screening Report 061413

Hall Analytical Reports (1306634 and 1306636)

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\Huerfano #206\Huerfano #206 BGT Closure and Final Excavation Report 072613.docx







AES Field Screening Report

AES

Animas Environmental Services, LLC

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

Client: ConocoPhillips

Project Location: Huerfano #206

Date: 6/14/2013

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field Chloride (mg/kg)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
S-1	6/14/2013	7:45	North	0.6	NA	8:55	123	20.0	1	DAW
S-2	6/14/2013	7:48	South	0.7	NA	9:00	151	20.0	1	DAW
S-3	6/14/2013	7:50	East	1.2	NA	8:50	>2,500	20.0	1	DAW
S-4	6/14/2013	7:53	West	622	NA	8:41	>2,500	20.0	1	DAW
S-5	6/14/2013	7:55	Center	49.8	NA	8:49	23,500	200	10	DAW
SC-1	6/14/2013	8:00	Composite	19.2	80		Not A	Analyzed for TP	PH.	***
SC-2	6/14/2013	12:34	North Wall	4.4	NA	12:50	64.5	20.0	1	DAW
SC-3	6/14/2013	11:20	South Wall	24.8	NA	11:34	700	20.0	1	DAW
SC-4	6/14/2013	11:21	East Wall	29.1	NA	11:37	114	20.0	1	DAW

CoP Huefano #206 Page 1

Report Finalized: 06/14/13

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field Chloride (mg/kg)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-5	6/14/2013	11:40	West Wall	4.2	NA	11:54	245	20.0	1	DAW
SC-6	6/14/2013	12:40	Base	2.7	NA	12:54	1,510	20.0	1	DAW

PQL Practical Quantitation Limit

Not Detected at the Reporting Limit

NA Not Analyzed DF

ND

Dilution Factor

*Field TPH concentrations recorded may be below PQL.

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with

Debrah Water

Silver Nitrate

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

CoP Huefano #206 Page 2 Report Finalized: 06/14/13



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

OrderNo.: 1306634

June 19, 2013

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

FAX

RE: CoP Huerfano 206

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/15/2013 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.

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1306634

Date Reported: 6/19/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Project: 1306634-001 Lab ID:

CoP Huerfano 206

Client Sample ID: SC-6

Collection Date: 6/14/2013 12:40:00 PM

Matrix: MEOH (SOIL) Received Date: 6/15/2013 11:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analy	st: JME
Diesel Range Organics (DRO)	370	10	mg/Kg	1	6/17/2013 9:30:09 AM	7941
Surr: DNOP	81.3	63-147	%REC	1	6/17/2013 9:30:09 AM	7941
EPA METHOD 8015D: GASOLINE R	ANGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	50	mg/Kg	10	6/17/2013 11:23:56 A	M R11338
Surr: BFB	94.8	80-120	%REC	10	6/17/2013 11:23:56 A	M R11338

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
- Analyte detected below quantitation limits J
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Not Detected at the Reporting Limit Page 1 of 3 Sample pH greater than 2 for VOA and TOC only. P
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1306634

19-Jun-13

Client:

Animas Environmental

Project:

CoP Huerfano 206

Sample ID MB-7941	SampType: MBLK			Tes	TestCode: EPA Method 8015D: Diesel Range Organics						
Client ID: PBS	Batc	h ID: 79	41	F	RunNo: 1	1331					
Prep Date: 6/17/2013	Analysis [Date: 6/	17/2013	9	SeqNo: 3	20251	Units: mg/h	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Surr: DNOP	9.0		10.00		89.7	63	147				
Sample ID LCS-7941	SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics										

Sample ID LCS-7941	SampTy	pe: LC	S	TestCode: EPA Method 8015D: Diesel Range Organics						
Client ID: LCSS	Batch	Batch ID: 7941 RunNo: 113								
Prep Date: 6/17/2013 Analysis Date: 6/17/2013			S	SeqNo: 3	20252	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	79.1	77.1	128			
Surr: DNOP	4.3		5.000		85.5	63	147			

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 pII greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 2 of 3

Hall Environmental Analysis Laboratory, Inc.

WO#:

1306634

19-Jun-13

Client:

Animas Environmental

Project:

CoP Huerfano 206

Sample ID MB-7932	SampT	уре: М	BLK	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch	1D: R1	1338	R	RunNo: 1	1338				
Prep Date: 6/14/2013	Analysis D	ate: 6/	17/2013	S	SeqNo: 3	20861	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		94.7	80	120			

Sample ID LCS-7932 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: R11338 RunNo: 11338 Prep Date: 6/14/2013 Analysis Date: 6/17/2013 SeqNo: 320862 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual Gasoline Range Organics (GRO) 26 5.0 25.00 102 62.6 136 Surr: BFB 1000 1000 103 80 120

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 3



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: Animas Environmental Work Order Number: 1306634 RcptNo: 1 Received by/date: Logged By: Lindsay Mangin 6/15/2013 11:40:00 AM Completed By: 6/17/2013 5:20:38 AM Lindsay Mangin Reviewed By: Chain of Custody Yes 🗌 No 🗌 Not Present 1. Custody seals intact on sample bottles? Yes V No 🗌 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In NA 🗍 4. Was an attempt made to cool the samples? Yes 🗹 No 🗆 NA 🗆 No 🗌 5. Were all samples received at a temperature of >0° C to 6.0°C Yes V No 🗀 Yes V Sample(s) in proper container(s)? Yes 🗹 No 🗌 7. Sufficient sample volume for indicated test(s)? V No 🗌 8. Are samples (except VOA and ONG) properly preserved? Yes No 🗸 NA \square 9. Was preservative added to bottles? Yes No VOA Vials 10.VOA vials have zero headspace? Yes No 🗆 Yes No 🗸 11. Were any sample containers received broken? # of preserved bottles checked No 🗌 for pH: 12. Does paperwork match bottle labels? Yes V (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 Yes 🗸 13. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 14. Is it clear what analyses were requested? No 🗌 Checked by: Yes 🗸 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes No 🗌 NA 🗸 16. Was client notified of all discrepancies with this order? Person Notified: Date: By Whom: ☐ eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18, Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date. Signed.By

1.0

Good

Yes

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	TPH (Method 418.1) EDB (Method 504.1) RCRA 8 Metals Anions (F,CI,MO ₃ ,MO ₂ ,PO ₄ ,SO ₄) 8081 Pesticides / 8082 PCB's 8260B (VOA) 8260B (VOA)	Chrocal Miles Sepansor: Carlor Rey User ID: Benale	C200 Wart Ordered By: Freddy Martimes contracted data will be clearly notated on the analytical report.
4901 Ha	BTEX + MTBE + TMB's (8021) BTEX + MTBE + TPH (Gas only) TPH 8015B (GROV DR)	Remarks: Bull b	Activity code: Area? 21 cossibility. Any sub-
Turn-Around Time: Standard Rush Same day Project Name: (a) Huerfano 206 Project #:		1//3 /545	(100) Must Colored By: Freddy Martinez Cooperated Cooperat
Chain-of-Custody Record Client: Autmas Envisonmental Services LLC Mailing Address: 624 E Comanch Earmington, NM 87401 Phone #: 505 564 2281	□ Level 4 (Full Validation) ther Sample Request ID	1240 Soul Sc-6 Time: Relinquished by: Time: Relinquished by:	19 19 Annaples Submitted to Hall Environmental may be subco



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

June 28, 2013

Debbie Watson Animas Environmental 624 East Comanche Farmington, NM 87401

TEL: (505) 486-4071

FAX

RE: CoP Huerfano #206

OrderNo.: 1306636

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/15/2013 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued June 24, 2013.

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.

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 1306636

Date Reported: 6/28/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Project: CoP Huerfano #206

1306636-001 Lab ID:

Client Sample ID: SC-1

Collection Date: 6/14/2013 8:00:00 AM

Received Date: 6/15/2013 11:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS					Analyst	: JME
Diesel Range Organics (DRO)	1800	100		mg/Kg	10	6/20/2013 3:53:45 AM	7941
Surr: DNOP	0	63-147	S	%REC	10	6/20/2013 3:53:45 AM	7941
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/19/2013 2:15:52 AM	7950
Surr: BFB	122	80-120	S	%REC	1	6/19/2013 2:15:52 AM	7950
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.048		mg/Kg	1	6/19/2013 2:15:52 AM	7950
Toluene	ND	0.048		mg/Kg	1	6/19/2013 2:15:52 AM	7950
Ethylbenzene	ND	0.048		mg/Kg	1	6/19/2013 2:15:52 AM	7950
Xylenes, Total	ND	0.097		mg/Kg	1	6/19/2013 2:15:52 AM	7950
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	6/19/2013 2:15:52 AM	7950
EPA METHOD 300.0: ANIONS						Analyst	: JRR
Chloride	150	7.5		mg/Kg	5	6/18/2013 10:03:28 PM	7979

Matrix: SOIL

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1306636

28-Jun-13

Client:

Animas Environmental

Project:

CoP Huerfano #206

Sample ID MB-7979

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 7979

RunNo: 11394

Prep Date: 6/18/2013 Analysis Date: 6/18/2013

SeqNo: 322091

Units: mg/Kg HighLimit

Analyte

Result

SPK value SPK Ref Val %REC LowLimit

%RPD **RPDLimit**

Qual

Chloride

Client ID:

ND 1.5

PQL

LCSS

SampType: LCS

TestCode: EPA Method 300.0: Anions

Sample ID LCS-7979

Batch ID: 7979

PQL

RunNo: 11394

Prep Date: 6/18/2013 Analysis Date: 6/18/2013

SeqNo: 322092

Units: mg/Kg

HighLimit

%RPD

RPDLimit

Analyte

Chloride

Result

15.00

SPK value SPK Ref Val %REC

96.0

110

1.5

90

14

LowLimit

Qual

Qualifiers:

R

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits J

RPD outside accepted recovery limits

0 RSD is greater than RSDlimit

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit ND

RLReporting Detection Limit

P

Page 2 of 5

Sample pH greater than 2 for VOA and TOC only.

Hall Environmental Analysis Laboratory, Inc.

WO#: 1

1306636

28-Jun-13

Client: Project:

Animas Environmental CoP Huerfano #206

Sample ID MB-7941	SampT	SampType: MBLK			TestCode: EPA Method 8015D: Diesel Range Organics						
Client ID: PBS	Batch	Batch ID: 7941			RunNo: 11331						
Prep Date: 6/17/2013	Analysis Date: 6/17/2013			5	SeqNo: 320251			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Surr: DNOP	9.0		10.00		89.7	63	147				
		SampType: LCS TestCode: EPA M									
Sample ID LCS-7941	SampT	ype: LC	S	Tes	tCode: E	PA Method	8015D: Diese	el Range C	Organics		
Sample ID LCS-7941 Client ID: LCSS	4. 7	ype: LC i ID: 79			tCode: E		8015D: Diese	el Range C	Organics		
100	4. 7	i ID: 79	41	F		1331	8015D: Diese Units: mg/K	•	Organics		
Client ID: LCSS	Batch	i ID: 79	41 17/2013	F	RunNo: 1	1331		•	Organics RPDLimit	Qual	
Client ID: LCSS Prep Date: 6/17/2013	Batch Analysis D	i ID: 79 - ate: 6/	41 17/2013	F	RunNo: 1 SeqNo: 3	1331 20252	Units: mg/K	īg		Qual	

Sample ID	1306606-001AMS	SampT	ype: MS	5	Tes	tCode: El	PA Method	8015D: Diese	el Range C	Organics		
Client ID:	BatchQC	Batch ID: 7941 RunNo: 11393									ı	
Prep Date:	6/17/2013	Analysis D	Analysis Date: 6/20/2013 SeqNo: 322846 U				Units: mg/K	g			1	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range C	Organics (DRO)	28	10	50.00	0	55.7	61.3	138			S	
Surr: DNOP		1.8		5.000		36.3	63	147			S	

Sample ID 1	1306606-001AMSD	SampTyp	e: M	SD	Tes	tCode: E	PA Method	8015D: Diese	el Range C	Organics	
Client ID: E	BatchQC	Batch II	D: 79	41	F	RunNo: 1	1393				
Prep Date:	6/17/2013	Analysis Dat	e: 6	/20/2013	5	SeqNo: 3	22848	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Or	ganics (DRO)	43	10	50.15	0	85.7	61.3	138	42.6	20	R
Surr: DNOP		1.5		5.015		30.6	63	147	0	0	S

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.

WO#:

1306636

28-Jun-13

Client:

Animas Environmental

Project:

CoP Huerfano #206

Sample ID	MB-7950
Campio ib	1110

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBS

Batch ID: 7950

RunNo: 11374

Prep Date:

6/17/2013

Analysis Date: 6/18/2013

PQL

SeqNo: 321775

LowLimit

80

Analyte

Gasoline Range Organics (GRO)

ND 5.0 960

Result

SPK value SPK Ref Val %REC

Units: mg/Kg HighLimit

RPDLimit Qual

Surr: BFB

1000

25.00

1000

24.11

964.3

95.8

120

%RPD

%RPD

%RPD

Sample ID LCS-7950

LCSS

SampType: LCS Batch ID: 7950 TestCode: EPA Method 8015D: Gasoline Range

RunNo: 11374

Client ID: Analyte

Prep Date: 6/17/2013

Analysis Date: 6/18/2013

26

27

1000

SeqNo: 321782

103

103

Units: mg/Kg

Qual

Gasoline Range Organics (GRO)

Result PQL SPK value

SPK Ref Val %REC LowLimit

62.6

80

HighLimit

136

120

RPDLimit

Surr: BFB

SampType: MS

0

TestCode: EPA Method 8015D: Gasoline Range

Client ID: Prep Date:

BatchQC 6/17/2013

Sample ID 1306528-001AMS

Batch ID: 7950

Analysis Date: 6/18/2013

48

5.0

RunNo: 11374 SeqNo: 321786

114

106

Units: mg/Kg

Analyte

Result **PQL**

SPK value SPK Ref Val %REC

0

0

LowLimit HighLimit 76

80

RPDLimit

Qual

Gasoline Range Organics (GRO) Surr: BFB

1000

120 TestCode: EPA Method 8015D: Gasoline Range

156

Client ID:

BatchQC

Sample ID 1306528-001AMSD

SampType: MSD Batch ID: 7950

PQL

4.8

RunNo: 11374

LowLimit

Prep Date: 6/17/2013

Analysis Date: 6/18/2013

SeqNo: 321787 %REC

Units: mg/Kg

HighLimit

%RPD

RPDLimit Qual 17.7

Analyte Gasoline Range Organics (GRO) Surr: BFB

Result 29 1000

24.11

964.3

SPK value SPK Ref Val

121 107 76 80 156 120

6.13

0

0

Qualifiers:

E

- Value exceeds Maximum Contaminant Level.
- J Analyte detected below quantitation limits

Value above quantitation range

- RSD is greater than RSDlimit 0 R RPD outside accepted recovery limits
- В H
 - Analyte detected in the associated Method Blank
 - ND Not Detected at the Reporting Limit
 - P Sample pH greater than 2 for VOA and TOC only.
 - RL Reporting Detection Limit
- Holding times for preparation or analysis exceeded
- Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1306636

28-Jun-13

Client: Animas
Project: CoP Hu

Animas Environmental CoP Huerfano #206

Sample ID MB-7950 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 7950 RunNo: 11374 Units: mg/Kg Prep Date: 6/17/2013 Analysis Date: 6/18/2013 SegNo: 321840 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 ND Xylenes, Total 0.10 Surr: 4-Bromofluorobenzene 1.0 1.000 102 80 120

Sample ID LCS-7950 TestCode: EPA Method 8021B: Volatiles SampType: LCS Client ID: LCSS Batch ID: 7950 RunNo: 11374 Prep Date: 6/17/2013 Analysis Date: 6/18/2013 SeqNo: 321844 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene 1.1 0.050 1.000 109 80 120 Toluene 1.1 0.050 1.000 0 108 80 120 Ethylbenzene 1.1 0.050 1.000 0 107 80 120 0 Xylenes, Total 3.3 0.10 3.000 109 80 120 Surr: 4-Bromofluorobenzene 1.000 106 80 120 1.1

Sample ID 1306605-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: BatchQC Batch ID: 7950 RunNo: 11425 Prep Date: 6/17/2013 Analysis Date: 6/19/2013 SeqNo: 323060 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.1 0.24 0.9407 0.07302 110 145 67.3 Benzene Toluene 3.2 0.9407 188 66.8 144 S 0.24 1.422 209 153 S Ethylbenzene 3.9 0.24 0.9407 1.982 61.9 S Xylenes, Total 14 0.47 2.822 7.154 228 65.8 149 Surr: 4-Bromofluorobenzene 5.5 4.704 117 80 120

Sample ID 1306605-001AM	SD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BatchQC	F	RunNo: 11425								
Prep Date: 6/17/2013	Analysis D	ate: 6/	19/2013	8	SeqNo: 3	23061	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.23	0.9398	0.07302	106	67.3	145	3.75	20	
Toluene	3.2	0.23	0.9398	1.422	185	66.8	144	0.958	20	S
Ethylbenzene	4.0	0.23	0.9398	1.982	216	61.9	153	1.75	20	S
Xylenes, Total	14	0.47	2.820	7.154	238	65.8	149	2.02	20	S
Surr: 4-Bromofluorobenzene	5.7		4.699		120	80	120	0	0	S

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 5 of 5



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

Client Name: Animas Environmental Work Order N	lumber: 1306636		RcptNo:	1
Received by/date: AT DG/15/13	7.40		1.00	
Logged By: Lindsay Mangin 6/15/2013 11:4	D:00 AM	Street of Hopes		
Completed By: Lindsay Mangin , 6/17/2013 5:42	51 AM	Strandy Hlyngo		
Reviewed By:		000		
Chain of Custody		*	*	
Custody seals intact on sample bottles?	Yes	No 🗆	Not Present	
2. Is Chain of Custody complete?	Yes 🗸	No 🗆	Not Present □	
3. How was the sample delivered?	Courier			
<u>Log In</u>				
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗆	NA 🗆	
5. Were all samples received at a temperature of >0° C to 6.0°	C Yes 🗹	No 🗆	NA \square	
6. Sample(s) in proper container(s)?	Yes 🗸	No 🗆	120	
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗆		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No \square		##
9. Was preservative added to bottles?	Yes 🗌	No 🗸	NA 🗆	
10.VOA vials have zero headspace?	Yes 🗌	No 🗆	No VOA Vials ✓	
11, Were any sample containers received broken?	Yes	No ☑	NO VOX VIGIO	: ÷
The state of the s	103	,	# of preserved bottles checked	
12.Does paperwork match bottle labels?	Yes 🗸	No 🗆	for pH:	=
(Note discrepancies on chain of custody)		n- 🗆	(<2 o	r >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?14. Is it clear what analyses were requested?	Yes ✓ Yes ✓	No □ □	/ tajaotou	
15. Were all holding times able to be met?	Yes 🗹	No 🗆	Checked by:	
(If no, notify customer for authorization.)	100 🖭	[
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🗹	
Person Notified:	Date:	Commence of the Commence of th		
By Whom:	/ia: ☐ eMail ☐ Pi	hone 🔲 Fax	☐ In Person	
Regarding:			E 244 (444) 5 444	
Client Instructions:				
17. Additional remarks:				
18. Cooler Information		750		
Cooler No Temp °C Condition Seal Intact Seal I	No Seal Date	Signed By		
[



