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.

Proposed Alternative Method Permit or Closure Plan Application

Santa Fe, NM 87505

| | 1 toposed Atternative Method I chill of V | Closure I fair Applie | ation |
|---|--|---|---|
| 13871 | Type of action: Below grade tank registration Permit of a pit or proposed alternative meth Closure of a pit, below-grade tank, or propo Modification to an existing permit/or registr Closure plan only submitted for an existing or proposed alternative method | sed alternative method ration | RECEIVED By Rvillalobos at 9:22 am, Dec 30, 2015 pit, below-grade tank, |
| | Instructions: Please submit one application (Form C-144) per individu | ual nit helow-grade tank or al | ternative request |
| environment. Nor | at approval of this request does not relieve the operator of liability should ope oes approval relieve the operator of its responsibility to comply with any othe | rations result in pollution of surf | ace water, ground water or the |
| 1, Operator: Co. | occoPhillips Company OGRID #:217817 | | |
| | BOX 4289, Farmington, NM 87499 | | |
| | name: <u>SAN JUAN 29-5 UNIT 77</u> | | |
| | | | |
| | L Section26 Township29 N Range5 W Cou | | |
| | sed Design: Latitude36.693582 N Longitude107.332170 N | | |
| | ☐ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment | [[] [] [] [] [] [] [] [] [] [| |
| 2. | Z 1 9 do la 1 do la 1 monta de | | |
| Temporary: Permanent Lined String-Rein | ction F, G or J of 19.15.17.11 NMAC Drilling | C Other | |
| | e tank: Subsection I of 19.15.17.11 NMAC 120 bbl Type of fluid: Produced Water | | |
| | on material: Metal | | |
| | containment with leak detection Visible sidewalls, liner, 6-inch lift at | nd automatic overflow shut-off | |
| _ | walls and liner Visible sidewalls only Other | | |
| Liner type: Thi | | JNSPECIFIED | |
| 4. | | | |
| □ Alternative | Method: | | |
| 1/6 | exception request is required. Exceptions must be submitted to the Santa | Fe Environmental Bureau offi | cc for consideration of approval. |
| | | | |
| 5. Fencing: Subs | ection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pit. | s, and below-grade tanks) | |
| - | ix feet in height, two strands of barbed wire at top (Required if located wire) | | esidence, school, hospital, |
| institution or ch | , | | |
| | ight, four strands of barbed wire evenly spaced between one and four feet | | |
| Alternate. I | lease specify | | |

| | Santa and a second |
|---|--------------------|
| 6. Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) | - |
| ☐ Screen ☐ Netting ☐ Other | |
| Monthly inspections (If netting or screening is not physically feasible) | |
| 7. | |
| Signs: Subsection C of 19.15.17.11 NMAC | |
| 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers | |
| ☐ Signed in compliance with 19.15.16.8 NMAC | |
| 8. | |
| Variances and Exceptions: | |
| Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: | |
| ☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. | |
| Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. | |
| 9. | |
| Siting Criteria (regarding permitting): 19.15.17.10 NMAC | |
| Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accematerial are provided below. Siting criteria does not apply to drying pads or above-grade tanks. | ptable source |
| General siting | |
| General string | |
| 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 |
| Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | ☐ Yes ☐ No 図 NA |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality | ☐ Yes ☐ No |
| Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | ☐ Yes ☐ No |
| Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map | ☐ Yes ☐ No |
| Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map | ☐ Yes ☐ No |
| Below Grade Tanks | |
| Within 100 feet of a gentinyough, flowing watercourse significant watercourse lake had sinkhole wetland or playe lake (massured | |
| Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). | ☐ Yes ☑ No |
| Topographic map; Visual inspection (certification) of the proposed site | |
| Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | ☐ Yes ☑ No |
| Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter) | |
| Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial | ☐ Yes ☐ No |
| application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | |
| Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |

| Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
|---|-------------------|
| Temporary Pit Non-low chloride drilling fluid | |
| Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | ☐ Yes ☐ No |
| Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Permanent Pit or Multi-Well Fluid Management Pit | |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | ☐ Yes ☐ No |
| Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 Natructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docattached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC 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: | NMAC 15.17.9 NMAC |
| 11. Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC | |
| Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the document of the interval of the following items must be 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: | .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 Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.10 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 Bimergency 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 | |
| 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 Dit |
| Proposed Closure Method: Waste Excavation and Removal Alternative Waste Excavation and Removal On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method | iuiu Management i it |
| 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. Sixting Guitania (negariting on site alegans methods only), 10 15 17 10 NIMAC | |
| 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 | page and |

| 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. | Ycs No |
| FEMA map | Yes No |
| On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan 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 cann 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 | 11 NMAC 15.17.11 NMAC |
| Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli | ef. |
| Name (Print): Title: | |
| Signature: Date: | |
| e-mail address: Telephone: | |
| 18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) COD Conditions (see attachment) | |
| OCD Representative Signature: Approval Date: 6/27/2 | 2016 |
| 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: 10/4/13 | |
| 20. Closure Method: Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-log If different from approved plan, please explain. | op systems only) |
| Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please in mark in the box, that the documents are attached. □ Proof of Closure Notice (surface owner and division) □ Proof of Deed Notice (required for on-site closure for private land only) □ Plot Plan (for on-site closures and temporary pits) □ Confirmation Sampling Analytical Results (if applicable) □ Waste Material Sampling Analytical Results (required for on-site closure) □ Disposal Facility Name and Permit Number □ Soil Backfilling and Cover Installation □ Re-vegetation Application Rates and Seeding Technique □ Site Reclamation (Photo Documentation) □ On-site Closure Location: Latitude □N Longitude □W NAD: □ 1927 □ 1983 | dicate, by a check |

| 22. | |
|---|----------------|
| Operator Closure Certification: | |
| I hereby certify that the information and attachments submitted with this closure report is belief. I also certify that the closure complies with all applicable closure requirements and | |
| Name (Print): Keny G. Robert Title: Regulatory Technician | |
| Signature: Tell G. Eath | Date: 12/15/15 |
| e-mail address: KEU7, Rose (505) 326-9775 | |

ConocoPhillips Company San Juan Basin Below Grade Tank Closure Report

Lease Name: San Juan 29-5 Unit 77

API No.: 30-039-21055

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:

COPC 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, COPC 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.

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

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.

| | - Administration of the second second | 11. 11. 11. 11. 11. 1 | |
|------------|---------------------------------------|-----------------------|--|
| 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 COPC or the division determines that a release has occurred, then COPC 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 COPC 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 of closure was not provided to the Aztec Division office between 72 hours and one week prior to closure.

9. The surface owner shall be notified of COPC'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. COPC shall seed the disturbed areas the first favorable growing season following closure of a below-grade tank. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federally regulated lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. A uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre- disturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. COPC will repeat seeding or planting will be continued until successful vegetative growth occurs.

Provision 13 was accomplished through complying with BLM seeding requirements as allowed by the BLM/OCD MOU.

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

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

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

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

1301 W. Grand Avenue, Artesia, NM 88210

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

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office to accordance with 19.15.29 NMAC.

| | | | Rele | ease Notific | catio | n and Co | orrective A | ction | ļ | | | |
|----------------|---------------|-------------------------|---|-------------------|----------------------|----------------------------------|--|------------|--------------|---------------|-------------|------------|
| | | | | | | OPERA' | ГOR | | ☐ Initi | al Report | \boxtimes | Final Repo |
| | | onocoPhillips | | | | Contact Crystal Walker | | | | | | |
| | | ^h St, Farmin | | | | Telephone No.(505) 326-9837 | | | | | | |
| Facility Na | ne: San Ju | ıan 29-5 Un | it 77 | | | Facility Typ | e: Gas Well | | | | | |
| Surface Ow | ner Federa | al | | Mineral (| Owner | ner Federal API No. 30-039-21055 | | | | | | |
| | | | | LOCA | ATIO | N OF REI | LEASE | | | | | |
| Unit Letter | Section | Township | Range | Feet from the | North | /South Line | Feet from the | East/V | Vest Line | County | | |
| | | | | Latitude 36.0 | 693582 | Longitud | de107.33217 | 0 | 1 | <u></u> | | |
| | | | | NAT | TURE | OF REL | EASE | | | | | |
| Type of Rele | | | | | | Volume of | | | | Recovered | | |
| Source of Re | lease | | | | | Date and H | Hour of Occurrence | ce | Date and | Hour of Dis | covery | |
| Was Immedi | ate Notice C | liven? | | | | If YES, To | Whom? | | | | | |
| YY as minicul | ate riotice C | | Yes | No 🛛 Not R | equired | | Willom. | | | | | |
| By Whom? | | | , A. C. | Personal Personal | | Date and F | Iour | | | | | |
| Was a Water | course Reac | | | | | | olume Impacting | the Wate | ercourse. | | | |
| | | | Yes 🛛 1 | No | | | | | | | | |
| If a Watercon | irse was Imj | pacted, Descr | ibe Fully. | k | | | | | | | | |
| N/A | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Describe Cau | se of Proble | em and Reme | dial Action | n Taken.* | | | | | | | | |
| No release w | as encount | ered during t | the BGT | Closure. | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Describe Are | a Affected a | and Cleanup A | Action Tak | en.* | | | | | | | | |
| N/A | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| I hereby cert | fy that the i | nformation gi | iven above | is true and comp | olete to | the best of my | knowledge and u | ınderstar | nd that pur | suant to NM | OCD r | ules and |
| | | | | | | | nd perform correct | | | | | |
| should their | or the envir | onment. The | acceptant adequately | investigate and r | ort by ti remedia | te NMOCD III te contaminati | arked as "Final R on that pose a thr | reat to or | ound wate | r. surface wa | iator of | man health |
| or the enviro | nment. In a | ddition, NMC | CD accep | tance of a C-141 | report of | does not reliev | e the operator of | responsi | bility for c | ompliance v | vith any | y other |
| federal, state | or local lav | vs and/or regu | ılations. | | | | | | | | | |
| Cianatura | 1 1 | 10- | 11 | | | | OIL CON | SERV | ATION | DIVISIO | <u>N</u> | |
| Signature: | Sal | 16. Er | Ja | | | | | | | | | |
| | | | 4 15 | | | Approved by | Environmental S | Specialist | : | | | |
| Printed Name | e: Kelly G. | Roberts | | | | | on the Control of the | 1 | 90° | | | |
| Title: Regul | atory Tech | nician | | | | Approval Dat | te: |] | Expiration | Date: | | |
| E-mail Addre | ess: Kelly | .Roberts@co | p.com | | | Conditions of | f Approval: | | | A 441 - 1 | | |
| / | / | | | _ | | | .e. % | | | Attached | Ш | |
| Date: 12/14 | | Phone: (505 | | 5 | | | | | | | | |
| Attach Addi | tional Shee | ets If Necess | ary | | | | | | | | | |



October 28, 2013

Lisa Hunter ConocoPhillips San Juan Business Unit Office 214-04 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 Report

San Juan 29-5 #77

Rio Arriba County, New Mexico

Dear Ms. Hunter:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the below grade tank (BGT) closure at ConocoPhillips (CoP) San Juan 29-5 #77, located in Rio Arriba County, New Mexico. Tank removal had been completed by CoP contractors prior to AES' arrival at the location.

1.0 Site Information

1.1 Location

Site Name - San Juan 29-5 #77

Legal Description – NW¼ SW¼, Section 26, T29N, R5W, Rio Arriba County, New Mexico Well Latitude/Longitude – N36.69328 and W107.33202, respectively BGT Latitude/Longitude – N36.69360 and W107.33212, respectively Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, October 2013

1.2 NMOCD Ranking

In accordance with the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), the location was given a ranking score of 10 based on the following factors:

- Depth to Groundwater: A Pit Remediation and Closure Report form dated January 1995 reported the depth to groundwater as 240 feet below ground surface (bgs). (0 points)
- Wellhead Protection Area: The location is not within a wellhead protection area.
 (0 points)
- Distance to Surface Water Body: Unnamed washes which drain to the wash in Gobernador Canyon are located 285 feet east and 590 feet southeast of the location. (10 points)

1.3 BGT Closure Assessment

AES was initially contacted by Fred Martinez, CoP representative, on October 4, 2013, and on the same day, Heather Woods and David Reese 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 October 4, 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 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:

- BTEX per U.S. Environmental Protection Agency (USEPA) Method 8021B; and
- Chloride per USEPA Method 300.0.

2.3 Field and Laboratory Analytical Results

Field screening readings for VOCs via OVM ranged from 0.0 ppm in S-2 through S-5 up to 0.2 ppm in S-1. Field TPH concentrations ranged 21.0 mg/kg in S-2 up to 38.8 mg/kg in S-1. The field chloride concentration in SC-1 was 80 mg/kg. Field screening results are summarized in Table 1 and presented on Figure 2. The AES Field Screening Report is attached.

Table 1. Soil Field Screening VOCs, TPH, and Chloride Results San Juan 29-5 #77 BGT Closure, October 2013

| Sample ID | Date Sampled | Depth below BGT (ft) | VOCs OVM Reading (ppm) | Field TPH (mg/kg) | Field Chlorides (mg/kg) |
|----------------|-----------------|----------------------------|------------------------------|-------------------------|-------------------------------|
| NMOCD Action L | evel (NMAC 19. | 15.17.13E) | | 100 | 250 |
| S-1 | 10/4/13 | 0.5 | 0.2 | 38.8 | NA |
| S-2 | 10/4/13 | 0.5 | 0.0 | 21.0 | NA |
| S-3 | 10/4/13 | 0.5 | 0.0 | 33.3 | NA |
| S-4 | 10/4/13 | 0.5 | 0.0 | 34.7 | NA |
| S-5 | 10/4/13 | 0.5 | 0.0 | 31.9 | NA |
| SC-1 | 10/4/13 | 0.5 | NA | NA | 80 |

NA - Not Analyzed

Laboratory analytical results reported benzene and total BTEX concentrations in SC-1 as less than 0.050 mg/kg and 0.25 mg/kg, respectively. The laboratory chloride concentration was reported below the laboratory detection limit of 30 mg/kg. Laboratory analytical results are summarized in Table 2 and included on Figure 2. Laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results San Juan 29-5 #77 BGT Closure. October 2013

| | | | | 0.50 | | | | |
|--------------|-----------------------|-----------------------|--------------------|--------------------------|------------------------|------------------------|----------------------|--|
| Sample ID | Date Sampled | Depth (ft) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH- GRO (mg/kg) | TPH- DRO (mg/kg) | Chlorides (mg/kg) | |
| NMO | D Action Leve 19.1 | el (NMAC 5.17.13E) | 0.2 | 50 | 1 | 00 | 250 | |
| SC-1 | 10/4/13 | 0.5 | <0.050 | <0.25 | NA | NA | <30 | |

NA - Not Analyzed

3.0 Conclusions and Recommendations

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. Field TPH concentrations were below the NMOCD action level of 100 mg/kg, with the highest concentration reported in S-1 with 38.8 mg/kg. Benzene and total BTEX concentrations in SC-1 were below the NMOCD action levels of 0.2 mg/kg and 50 mg/kg, respectively. Chloride concentrations in SC-1 were below the NMOCD action level of 250 mg/kg. Based on field screening and laboratory analytical results for benzene, total BTEX, TPH, and chlorides, no further work is recommended at San Juan 29-5 #77.

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 Reue

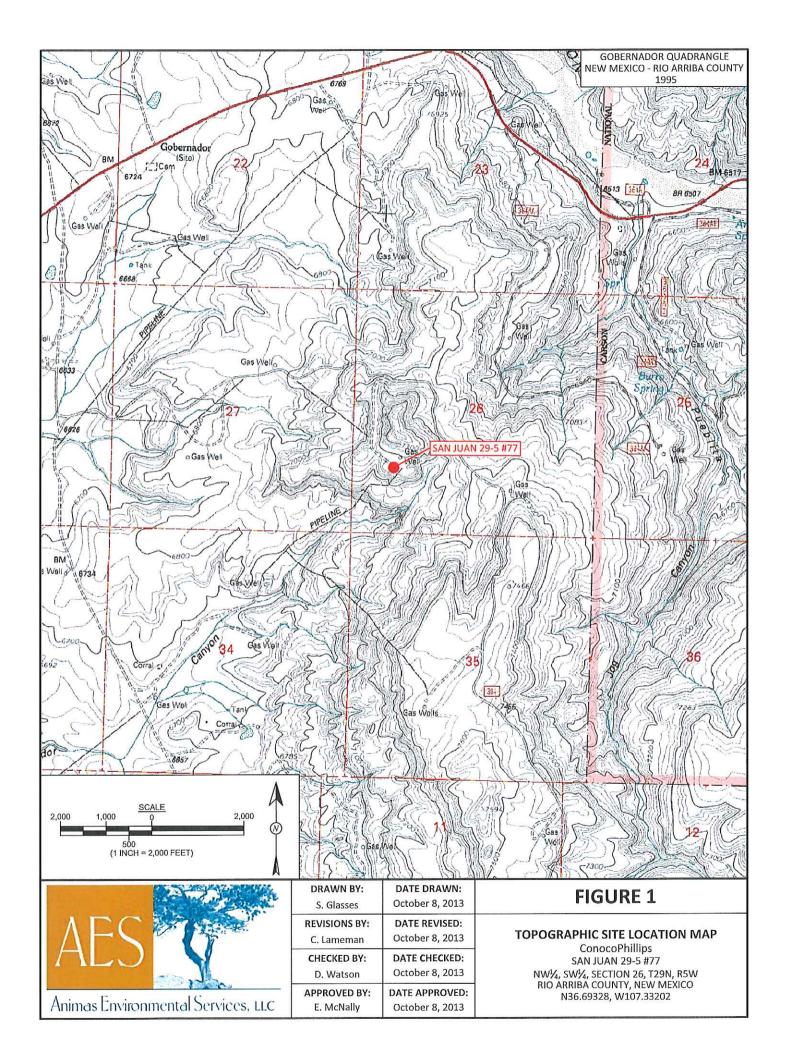
Lisa Hunter San Juan 29-5 #77 BGT Closure Report October 28, 2013 Page 5 of 5

Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, October 2013 AES Field Screening Report 100413 Hall Analytical Report 1310295

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\SJ 29-5 #77\SJ 29-5 #77 BGT Closure Report 102813.docx



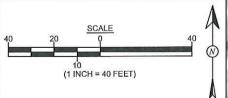
LEGEND

SAMPLE LOCATIONS

| Sample ID | Date | OVM- PID (ppm) | TPH (mg/kg) | Chlorides (mg/kg) |
|-----------|------------|----------------------|----------------|----------------------|
| NMOCD AC | TION LEVEL | | 100 | 250 |
| S-1 | 10/4/13 | 0.2 | 38.8 | NA |
| S-2 | 10/4/13 | 0.0 | 21.0 | NA |
| S-3 | 10/4/13 | 0.0 | 33,3 | NA |
| S-4 | 10/4/13 | 0.0 | 34.7 | NA |
| S-5 | 10/4/13 | 0.0 | 31.9 | NA |
| SC-1 | 10/4/13 | 0.0 | NA | 80 |

| | | Laborato | ry Analytico | al Results | | |
|--------------------|----------|--------------------|--------------------------|-------------------------|-------------------------|----------------------|
| Sample ID | Date | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH - GRO (mg/kg) | TPH - DRO (mg/kg) | Chlorides (mg/kg) |
| NMOCD ACTION LEVEL | | 0.2 | 50 | 10 | 00 | 250 |
| SC-1 | 10/4/13 | <0.050 | <0.25 | NA | NA | <30 |
| SAMPLE WAS | ANALYZED | DED EDA M | ETHOD 803 | IR AND 300 | n | |





| AERI/ | AL SOURCE: © 2013 MICI | ROSOFT CORPORATION - | AVAILABLE EXCLUSIVELY BY DIGITALGLOBE |
|-----------|------------------------|----------------------|---------------------------------------|
| <u>s.</u> | DRAWN BY: | DATE DRAWN: | FICURE 2 |
| 5 E- | C CI | October 9 2013 | FIGURE 2 |

| AFC | |
|----------------|----------------------|
| AES | V |
| Animas Environ | mental Services, LLC |

| DRAWN BY: S. Glasses | October 8, 2013 | |
|-----------------------------|-----------------------------------|--|
| REVISIONS BY: C. Lameman | DATE REVISED: October 8, 2013 | |
| CHECKED BY: D. Watson | DATE CHECKED: October 8, 2013 | |
| APPROVED BY: E. McNally | DATE APPROVED: October 8, 2013 | |

AERIAL SITE MAP BELOW GRADE TANK CLOSURE OCTOBER 2013 ConocoPhillips

SAN JUAN 29-5 #77
NW¼, SW¼, SECTION 26, T29N, R5W
RIO ARRIBA COUNTY, NEW MEXICO
N36.69328, W107.33202

AES Field Screening Report

Client: ConocoPhillips

www.animasenvironmental.com

Animas Environmental Services, ILC

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

Durango, Colorado 970-405-3084

Date: 10/4/2013

Matrix: Soil

Project Location: San Juan 29-5 #77

| | | Time of | | | Field | Field TPH | | | | HdL |
|-----------|------------|------------|-----------|-------|----------|-----------|------------|-----------------------|----|----------|
| | Collection | Sample | Sample | MVO | Chloride | Analysis | Field TPH* | TPH PQL | | Analysts |
| Sample ID | Date | Collection | Location | (ppm) | (mg/kg) | Time | (mg/kg) | (mg/kg) | DF | Initials |
| S-1 | 10/4/2013 | 10:32 | North | 0.2 | NA | 12:17 | 38.8 | 20.0 | 1 | MH |
| S-2 | 10/4/2013 | 10:34 | South | 0.0 | NA | 12:25 | 21.0 | 20.0 | 1 | МН |
| S-3 | 10/4/2013 | 10:36 | East | 0.0 | NA | 12:32 | 33.3 | 20.0 | 1 | МН |
| S-4 | 10/4/2013 | 10:38 | West | 0.0 | NA | 12:39 | 34.7 | 20.0 | 1 | МН |
| S-5 | 10/4/2013 | 10:41 | Center | 0.0 | NA | 12:46 | 31.9 | 20.0 | 1 | MH |
| SC-1 | 10/4/2013 | 10:44 | Composite | NA | 80 | | Not, | Not Analyzed for TPH. | H. | |

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with

Silver Nitrate

Total Petroleum Hydrocarbons - USEPA 418.1

Not Detected at the Reporting Limit Practical Quantitation Limit ND

Dilution Factor Not Analyzed

Ν

PQL

*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

October 09, 2013

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

FAX

RE: CoP San Juan 29-5 #77

OrderNo.: 1310295

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/5/2013 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 qualifiers 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1310295

Date Reported: 10/9/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Project: CoP San Juan 29-5 #77

1310295-001 Lab ID:

Client Sample ID: SC-1

Collection Date: 10/4/2013 10:44:00 AM

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

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed | Batch |
|-----------------------------|--------|----------------------|----------|----|----------------------|----------------|
| EPA METHOD 8021B: VOLATILES | | Walter State Control | | | Analys | st: NSB |
| Benzene | ND | 0.050 | mg/Kg | 1 | 10/7/2013 11:09:23 A | M R13873 |
| Toluene | ND | 0.050 | mg/Kg | 1 | 10/7/2013 11:09:23 A | M R13873 |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 10/7/2013 11:09:23 A | M R13873 |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 10/7/2013 11:09:23 A | M R13873 |
| Surr: 4-Bromofluorobenzene | 111 | 80-120 | %REC | 1 | 10/7/2013 11:09:23 A | M R13873 |
| EPA METHOD 300.0: ANIONS | | | | | Analys | st: JRR |
| Chloride | ND | 30 | mg/Kg | 20 | 10/7/2013 12:24:57 P | M 9665 |

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- Not Detected at the Reporting Limit Page 1 of 4 Sample pH greater than 2 for VOA and TOC only. P
- RLReporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1310295

09-Oct-13

Client:

Animas Environmental

Project:

CoP San Juan 29-5 #77

Sample ID MB-9665

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 9665

RunNo: 13905

Prep Date: 10/7/2013

Analysis Date: 10/7/2013

SeqNo: 397291

Units: mg/Kg

Qual

Analyte Chloride

Result

1.5

HighLimit %RPD **RPDLimit**

ND

SPK value SPK Ref Val %REC LowLimit

0

TestCode: EPA Method 300.0: Anions

Sample ID LCS-9665

Client ID: LCSS

Sample ID 1310099-003AMS

10/7/2013

SampType: LCS Batch ID: 9665

RunNo: 13905

90

Units: mg/Kg

110

Prep Date: Analyte

10/7/2013

Analysis Date: 10/7/2013

PQL

1.5

SeqNo: 397292 %REC

LowLimit

HighLimit

RPDLimit

Qual

Chloride

SampType: MS

Result

15

15.00

15.00

SPK value SPK Ref Val

96.7

TestCode: EPA Method 300.0: Anions

Client ID: BatchQC

Batch ID: 9665

PQL

RunNo: 13905

Units: mg/Kg

%RPD

%RPD

Analyte Chloride

Prep Date:

Result

Analysis Date: 10/7/2013

1.5

SegNo: 397308 SPK value SPK Ref Val

8.421

%REC 101

LowLimit HighLimit 58.8 109 **RPDLimit**

Qual

Sample ID 1310099-003AMSD

SampType: MSD

Result

24

24

TestCode: EPA Method 300.0: Anions

Batch ID: 9665

RunNo: 13905

102

Prep Date:

Client ID:

BatchQC 10/7/2013

Analysis Date: 10/7/2013

SeqNo: 397309

Units: mg/Kg

Qual

Analyte Chloride

1.5

SPK value SPK Ref Val %REC 15.00

8.421

LowLimit 58.8 HighLimit 109 %RPD 0.686 **RPDLimit** 20

Oualifiers:

1

S

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

Value above quantitation range E Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits ND Not Detected at the Reporting Limit

Sample pH greater than 2 for VOA and TOC only.

Reporting Detection Limit

Η

В Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

Page 2 of 4

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1310295 09-Oct-13

Client: Project: Animas Environmental CoP San Juan 29-5 #77

| Sample ID MB-9657 MK | Samp | Гуре: МЕ | BLK | Tes | tCode: El | PA Method | 8021B: Volat | tiles | | |
|----------------------------|------------|-----------------|-----------|-------------|-----------|-----------|--------------|-------|----------|------|
| Client ID: PBS | Batcl | h ID: R1 | 3873 | F | RunNo: 1 | 3873 | | | | |
| Prep Date: | Analysis E | Date: 10 | 0/7/2013 | 5 | SeqNo: 3 | 96916 | 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-Bromofluorobenzene | 1.1 | | 1.000 | | 112 | 80 | 120 | | | |
| Sample ID LCS-9657 MK | Samp | ype: LC | s | Tes | tCode: El | PA Method | 8021B: Volat | tiles | | |
| Client ID: LCSS | Batcl | n ID: R1 | 3873 | F | RunNo: 1 | 3873 | | | | |
| Prep Date: | Analysis D | Date: 10 | 0/7/2013 | S | SeqNo: 3 | 96917 | Units: mg/K | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.88 | 0.050 | 1.000 | 0 | 88.4 | 80 | 120 | | | |
| Toluene | 0.89 | 0.050 | 1.000 | 0 | 88.9 | 80 | 120 | | | |
| Ethylbenzene | 0.92 | 0.050 | 1.000 | 0 | 92.4 | 80 | 120 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 99.0 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 113 | 80 | 120 | | | |
| Sample ID MB-9657 | Samp | уре: МЕ | BLK | Tes | tCode: El | PA Method | 8021B: Volat | tiles | | |
| Client ID: PBS | Batcl | n ID: 96 | 57 | F | RunNo: 1 | 3873 | | | | |
| Prep Date: 10/4/2013 | Analysis D | Date: 10 | 0/7/2013 | S | SeqNo: 3 | 96920 | Units: %RE | С | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 112 | 80 | 120 | | | |

| Sample ID LCS-9657 | SampT | ype: LC | s | Tes | tCode: E | PA Method | 8021B: Vola | tiles | | |
|----------------------------|------------|---------|-----------|-------------|----------|-----------|-------------|-------|----------|------|
| Client ID: LCSS | Batch | 1D: 96 | 57 | F | RunNo: 1 | 3873 | | | | |
| Prep Date: 10/4/2013 | Analysis D | ate: 1 | 0/7/2013 | 8 | SeqNo: 3 | 96921 | Units: %RE | С | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 113 | 80 | 120 | | | |

| Sample ID 1310 | 224-001AMS | SampT | ype: MS | 3 | Tes | tCode: E | PA Method | 8021B: Volat | tiles | | |
|---------------------|------------|------------|---------|-----------|-------------|----------|-----------|--------------|-------|----------|------|
| Client ID: Batc | hQC | Batch | ID: 96 | 57 | F | RunNo: 1 | 13873 | | | | |
| Prep Date: 10/4 | 4/2013 | Analysis D | ate: 1 | 0/7/2013 | S | SeqNo: 3 | 396927 | Units: %RE | С | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluoro | benzene | 1.1 | | 0.9970 | | 111 | 80 | 120 | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank B
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

Page 3 of 4

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1310295

09-Oct-13

Client:

Animas Environmental

Project:

CoP San Juan 29-5 #77

Sample ID 1310224-001AMSD

SampType: MSD

TestCode: EPA Method 8021B: Volatiles

Client ID:

BatchQC

Batch ID: 9657

RunNo: 13873

Prep Date: 10/4/2013

Analysis Date: 10/7/2013

SeqNo: 396928

Units: %REC

Qual

Analyte

Result

%REC

LowLimit

HighLimit

%RPD

RPDLimit

SPK value SPK Ref Val

80

0

0

Surr: 4-Bromofluorobenzene

1.2

0.9970

117

120

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits J

RSD is greater than RSDlimit 0

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

В Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

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

Reporting Detection Limit RL

Page 4 of 4



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: 131029 | 95 | RcptNo: | 1 |
|--|----------------------|--|-----------------------------------|------------------------|
| Received by/date: AF 10/05/13 | 3 | | | |
| Logged By: Anne Thorne 10/5/201 | 3 10:00:00 AM | anne A. | | |
| Completed By: Anne Thorne 10/7/201 | 3 | Anne St Anne St | | |
| Reviewed By: AT 10/07/13 | | July 251 | | |
| Chain of Custody | | | | |
| 1. Custody seals intact on sample bottles? | Yes | □ No □ | Not Present | |
| 2. Is Chain of Custody complete? | Yes | ✓ No 🗆 | Not Present | |
| 3. How was the sample delivered? | Couri | <u>ər</u> | | |
| <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 🗆 | |
| 6. Sample(s) in proper container(s)? | Yes | ✓ No □ |] | |
| 7. Sufficient sample volume for indicated test(s)? | Yes | ☑ No □ | ĺ | X 0 |
| 8. Are samples (except VOA and ONG) properly preserv | ved? Yes | ✓ No 🗆 | * | |
| 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 🗹 |] | |
| P | | - | # of preserved bottles checked | |
| 12. Does paperwork match bottle labels? | Yes | ✓ No □ | | r >12 unless noted) |
| (Note discrepancies on chain of custody) | . Von | V No □ | | i > 12 dilless floted) |
| 13. Are matrices correctly identified on Chain of Custody' | | V No [| | * |
| 14, Is it clear what analyses were requested?15. Were all holding times able to be met? | Yes | The same of the sa | · 1 | |
| (If no, notify customer for authorization.) | | | | |
| | | | | |
| Special Handling (if applicable) | | | , . | |
| 16. Was client notified of all discrepancies with this order | ? Yes | ☐ No Ĺ |] NA ☑ | 7 |
| Person Notified: | Date | | | |
| By Whom: | Via: ☐ eMa | il 🗌 Phone 🗌 F | ax In Person | į. |
| Regarding: | | | | |
| Client Instructions: | | | | _ |
| 17. Additional remarks: | | | | |
| 18. Cooler Information Cooler No Temp °C Condition Seal Intact 1 4.0 Good Yes | Seal No Seal Da | te Signed By | | |
| 1 7.0 000 100 | _LL | | | |

| ### Contained by: Contained by: Standard Standar | Off-Custody Record Turn-Around Time: Standard S | | dey ANALYSIS LABORATORY | | 7 4901 Hawkins NE - Albuquerque, NM 87109 | T-1 505 945 9075 T-1 | Tel. 505-345-3975 Fax 505-345-4107 | Analysis Request | (yln | (S | SO) MIS | HPT (1.1) 270 (2.2) 270 (2.2) 8082 | + + + + + + + + + + + + + + + + + + + | O O O O O O O O O O O O O O O O O O O | BTEX + ME BOBY 8 Me BOBY Pestions (F) BOBY PESTIONS | X | | | | 1 | | | Remarks: Bill to Conocolhillips | me Activity Substitute |
|--|--|--------------|-------------------------|----------|---|----------------------|---|------------------|-------------|----------|-----------------------|---|---------------------------------------|---------------------------------------|---|--------------|---|----|-----|---|---|--|-------------------------------------|--|
| Of-Custody Record Turn-Around Time: Service Standard Jenne day Project Name: G 2 4 6 Commedia Cop Say Tray 29-5 # ファ Project Name: Service Project Manager: Project Manager: Project Manager: Project Manager: Project Manager: Sample Request ID Type and # Type Type and # Type Type T | Of-Custody Record Turn-Around Time: Service Standard Jenne day Project Name: G 2 4 6 Commedia Cop Say Tray 29-5 # ファ Project Name: Service Project Manager: Project Manager: Project Manager: Project Manager: Project Manager: Sample Request ID Type and # Type Type and # Type Type T | | | * | 4901 Hawkins | T-1 505 045 | Tel. 505-345- | | (ʎʃu | o st | sĐ) | НЧТ <u>(Г.</u> | 118 HC + | oq _v | BTEX + MT TPH (Metho | A | | | | | | | 2 0 | Activity. Ch |
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| Of-Cu. 624 624 Conting | Of-Cu. 624 624 Conting | | T | | | | | | Proje | <u> </u> | 399 | Sam | ē ē | Sam | | Mea | | | | | , | | Recei | Yeorai Yeorai |
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San Juan 29-5 Unit 77

