

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

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.  
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

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

Pit, Closed-Loop System, Below-Grade Tank, or  
Proposed Alternative Method Permit or Closure Plan Application

11195

- Type of action:  Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method  
 Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method  
 Modification to an existing permit  
 Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

**Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, 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.

1.  
Operator: Williams Four Corners LLC OGRID #: \_\_\_\_\_  
Address: 188 County Road 4900, Bloomfield, NM 87413  
Facility or well name: NEBU No. 47A  
API Number: 30-045-24220 OCD Permit Number: \_\_\_\_\_  
U/L or Qtr/Qtr F Section 32 Township 31 N Range 7 W County Rio Arriba  
Center of Proposed Design: Latitude 36.857995 Longitude -107.597388 NAD:  1927  1983  
Surface Owner:  Federal  State  Private  Tribal Trust or Indian Allotment

2.  
 **Pit:** Subsection F or G of 19.15.17.11 NMAC  
Temporary:  Drilling  Workover  
 Permanent  Emergency  Cavitation  P&A  
 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 \_\_\_\_\_

RCVD APR 26 '13  
OIL CONS. DIV.  
DIST. 3

3.  
 **Closed-loop System:** Subsection H of 19.15.17.11 NMAC  
Type of Operation:  P&A  Drilling a new well  Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)  
 Drying Pad  Above Ground Steel Tanks  Haul-off Bins  Other \_\_\_\_\_  
 Lined  Unlined Liner type: Thickness \_\_\_\_\_ mil  LLDPE  HDPE  PVC  Other \_\_\_\_\_  
Liner Seams:  Welded  Factory  Other \_\_\_\_\_

4.  
 **Below-grade tank:** Subsection I of 19.15.17.11 NMAC  
Volume: 45 bbl Type of fluid: Produced Water  
Tank Construction Material Steel  
 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 30 mil  HDPE  PVC  Other \_\_\_\_\_

5.  
 **Alternative Method:**  
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

6.  
**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*)  
 Four foot height, four strands of barbed wire evenly spaced between one and four feet  
 Alternate. Please specify \_\_\_\_\_

7.  
**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)

8.  
**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

9.  
**Administrative Approvals 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:**  
 Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.  
 Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

10.  
**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 acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.*

Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No
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	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. ( <i>Applies to temporary, emergency, or cavitation pits and below-grade tanks</i> ) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. ( <i>Applies to permanent pits</i> ) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within a 100-year floodplain. - FEMA map	<input type="checkbox"/> Yes <input type="checkbox"/> No

11.

**Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment 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 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 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 19.15.17.9 NMAC and 19.15.17.13 NMAC
- Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_ or Permit Number: \_\_\_\_\_

12.

**Closed-loop Systems Permit Application Attachment 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 attached.

- Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
- Siting Criteria Compliance Demonstrations (only for on-site closure) - 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 19.15.17.9 NMAC and 19.15.17.13 NMAC
- Previously Approved Design (attach copy of design) API Number: \_\_\_\_\_
- Previously Approved Operating and Maintenance Plan API Number: \_\_\_\_\_ (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

13.

**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 attached.

- Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- Climatological Factors Assessment
- Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- 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 H<sub>2</sub>S, Prevention Plan
- Emergency Response Plan
- Oil Field Waste Stream Characterization
- Monitoring and Inspection Plan
- Erosion Control Plan
- Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

14.

**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  Closed-loop System  
 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 (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)

15.

**Waste Excavation and Removal Closure Plan Checklist:** (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the 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 F 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 I of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

16.

**Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:** (19.15.17.13.D NMAC)

**Instructions:** Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name: \_\_\_\_\_ Disposal Facility Permit Number: \_\_\_\_\_

Disposal Facility Name: \_\_\_\_\_ Disposal Facility Permit Number: \_\_\_\_\_

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that *will not* be used for future service and operations?  
 Yes (If yes, please provide the information below)  No

Required for impacted areas which will not be used for future service and operations:

- 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 I of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

17.

**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 source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.

- |   |   |
|---|---|
| Ground water is less than 50 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells   | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> NA |
| Ground water is between 50 and 100 feet below the bottom of the buried waste<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> NA |
| Ground water is more than 100 feet below the bottom of the buried waste.<br>- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells  | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> NA |
| 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).<br>- Topographic map; Visual inspection (certification) of the proposed site  | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.<br>- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.<br>- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site | <input type="checkbox"/> Yes <input type="checkbox"/> 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.<br>- Written confirmation or verification from the municipality; Written approval obtained from the municipality   | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Within 500 feet of a wetland.<br>- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site   | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Within the area overlying a subsurface mine.<br>- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division   | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Within an unstable area.<br>- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map   | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |
| Within a 100-year floodplain.<br>- FEMA map   | <input type="checkbox"/> Yes <input type="checkbox"/> No                                |

18.

**On-Site Closure Plan Checklist:** (19.15.17.13 NMAC) **Instructions:** Each of the following items must be attached to the closure plan. Please indicate, 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 F of 19.15.17.13 NMAC
- Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC
- Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
- Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F 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 be achieved)
- 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 I of 19.15.17.13 NMAC
- Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

19.

**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 belief.

Name (Print): \_\_\_\_\_ Title: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 e-mail address: \_\_\_\_\_ Telephone: \_\_\_\_\_

20.

**OCD Approval:**  Permit Application (including closure plan)  Closure Plan (only)  OCD Conditions (see attachment)

OCD Representative Signature: Jonathan D. Kelly Approval Date: 3/02/2013  
 Title: Compliance Officer OCD Permit Number: \_\_\_\_\_

21.

**Closure Report (required within 60 days of closure completion):** Subsection K of 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. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.*

Closure Completion Date: 3/5/2013

22.

**Closure Method:**

Waste Excavation and Removal  On-Site Closure Method  Alternative Closure Method  Waste Removal (Closed-loop systems only)  
 If different from approved plan, please explain. \_\_\_\_\_

23.

**Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:**

*Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.*

Disposal Facility Name: \_\_\_\_\_ Disposal Facility Permit Number: \_\_\_\_\_  
 Disposal Facility Name: \_\_\_\_\_ Disposal Facility Permit Number: \_\_\_\_\_

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?

Yes (If yes, please demonstrate compliance to the items below)  No

*Required for impacted areas which will not be used for future service and operations:*

- Site Reclamation (Photo Documentation)  
 Soil Backfilling and Cover Installation  
 Re-vegetation Application Rates and Seeding Technique

24.

**Closure Report Attachment Checklist:** *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check 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)  
 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 Industrial Ecosystems, Inc.; Permit No. NM-01-0010B  
 Soil Backfilling and Cover Installation Completed 3/5/2013  
 Re-vegetation Application Rates and Seeding Technique  
 Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ NAD:  1927  1983

25.

**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): Matthew Webre Title: Environmental Specialist  
 Signature: [Signature] Date: 4/24/2013  
 e-mail address: matt.webre@williams.com Telephone: (505) 632-4442

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
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State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company Williams Four Corners LLC	Contact Matt Webre
Address 188 CR 4900, Bloomfield, NM 87413	Telephone No. 505-632-4442
Facility Name NEBU No. 47A	Facility Type Below Grade Tank Removal
Surface Owner New Mexico State Lands	Mineral Owner
API No. 30-045-24220	

**LOCATION OF RELEASE**

Unit Letter F	Section 32	Township 31N	Range 7W	Feet from the	North/South Line	Feet from the	East/West Line	County Rio Arriba
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Latitude 36.857995 N Longitude 107.597388 W

**NATURE OF RELEASE**

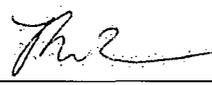
Type of Release N/A – Below Grade Tank Removal	Volume of Release 0	Volume Recovered 0
Source of Release Compressor and Above Grade Tank	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*  
N/A – Below grade tank removal.

Describe Area Affected and Cleanup Action Taken.\*

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.

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Matt Webre	Approved by Environmental Specialist:	
Title: Environmental Specialist	Approval Date:	Expiration Date:
E-mail Address: matt.webre@williams.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 4/24/2013	Phone: 505-632-4442	

\* Attach Additional Sheets If Necessary

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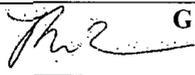
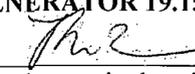
State of New Mexico  
Energy Minerals and Natural Resources

Form C-138  
Revised August 1, 2011

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

\*Surface Waste Management Facility Operator  
and Generator shall maintain and make this  
documentation available for Division inspection.

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

<b>1. Generator Name and Address:</b> Williams Four Corners, LLC., 188 Country Road 4900, Bloomfield, NM 87413
<b>2. Originating Site:</b> NEBU 47A
<b>3. Location of Material (Street Address, City, State or ULSTR):</b> Unit F, Section 32, Township 31N, Range 7W
<b>4. Source and Description of Waste:</b> Source/Description: Produced water/condensate release from pipeline/Soil impacted from release Estimated Volume <u>50</u> <input type="checkbox"/> yd <sup>3</sup> / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd <sup>3</sup> / bbls
<b>5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS</b> I, <u>Matt Webre</u>  , representative or authorized agent for <u>Williams Four Corners, LLC</u> do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) <input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. <del>Operator Use Only Waste Acceptance Frequency</del> <input checked="" type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input type="checkbox"/> Per Load <input type="checkbox"/> RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) <input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4) <b>GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS</b> I, <u>Matt Webre</u>  , representative for <u>Williams Four Corners, LLC</u> authorize Industrial Ecosystems, Inc. to complete the required testing/sign the Generator Waste Testing Certification. I, _____, representative for <u>Industrial Ecosystems, Inc.</u> do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
<b>5. Transporter:</b>

**OCD Permitted Surface Waste Management Facility**

Name and Facility Permit #: JFJ Landfarm c/o Industrial Ecosystems, Inc. Permit # NM-01-0010B

Address of Facility: # 49 CR 3150, Aztec, NM 87410

Method of Treatment and/or Disposal:

Evaporation  Injection  Treating Plant  Landfarm  Landfill  Other

**Waste Acceptance Status:**

APPROVED

DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_ TELEPHONE NO.: \_\_\_\_\_

Surface Waste Management Facility Authorized Agent



Williams Four Corners LLC  
Below Grade Tank Closure Report  
Well Name: NEBU 47A  
API Number: 30-045-24220

The following provides information related to the retirement and closure of the below grade tank (BGT) at the named location. All work was performed in accordance with Rule 19.15.17.13 NMAC and was consistent with the Williams BGT Closure Plan approved by NMOCD.

**Requirement:** Provide notices to NMOCD and landowner prior to closure actions.

Action: Notification made to landowner by mail and to NMOCD Aztec District Office by either mail (included with C-144) or by email.

**Requirement:** Eliminate discharge to BGT and remove free-standing liquids from BGT and or containment.

Action: Discharge to the BGT was eliminated and liquids, when present, were removed by a licensed hauler and taken to a NMOCD-permitted facility listed in the aforementioned closure plan.

**Requirement:** Remove ancillary equipment including piping, liner material, and fencing.

Action: Piping, liner material, and fencing were removed in advance or at the time of BGT retirement work. Scrap steel was recycled or placed in a Williams-owned storage area to allow evaluation for final disposition.

**Requirement:** Sample and test soils beneath the BGT to determine if there was hydrocarbon impact.

Action: Soils were sampled and analyzed for TPH, BTEX and chlorides. Results are attached to the C-144 Closure Form and are part of the closure documentation.

**Requirement:** Address contamination consistent with the Closure Plan or Remedial Action Plan/Protocol.

Action: Contaminated soil was disposed at NMOCD approved landfarm (identified in the approved Closure Plan).

**Requirement:** Backfill containment/excavation with acceptably clean materials and return area to grade such that ponding and erosion are mitigated.

Action: Clean soil (as defined) was used to return the BGT area to grade and was contoured/leveled consistent with the Pit Rule criteria.

**Requirement:** Reclaim and re-seed the area consistent with the Pit Rule and Closure Plan criteria.

Action: This requirement was not completed as the BGT was located on an active well pad. As stated in the approved plan, this requirement is deferred pending further well production and/or subsequent actions of the leaseholder and will be addressed when the well site is reclaimed.

*Any additional work performed and not described herein was completed consistent with the BGT Closure Plan and/or applicable NMOCD requirements. Further information is provided in the C-144 Closure Form as specified in the Pit Rule.*

## Webre, Matt

---

**From:** Webre, Matt  
**Sent:** Monday, February 18, 2013 10:01 AM  
**To:** 'Powell, Brandon, EMNRD'  
**Subject:** RE: BGT Closure Request - NEBU 47A  
**Attachments:** Rpt\_1301877\_v2.pdf

Brandon,

Attached are the TPH 8015 results including a summary below. There was no staining observed on the cliff.

Analyte	NEBU 47A 001 Side Walls	NEBU 47A 002 Bottom Comps
TPH-GRO	<5.0 mg/kg	<5.0 mg/kg
TPH-DRO	70 mg/kg	39 mg/kg

Matt

---

**From:** Powell, Brandon, EMNRD [<mailto:Brandon.Powell@state.nm.us>]  
**Sent:** Thursday, January 31, 2013 3:08 PM  
**To:** Webre, Matt; Dawson Scott ([sdawson@slo.state.nm.us](mailto:sdawson@slo.state.nm.us))  
**Cc:** Valdez, Dwayne  
**Subject:** RE: BGT Closure Request - NEBU 47A

Good afternoon Matt-

Because this location is at the edge of the cliff leading to Navajo Lake will you please have the sidewalls and bottom sampled for DRO/GRO using method 8015. Using this method we will be able to determine if the remaining contamination is still mobile. Also if possible could you have your field personnel inspect the cliff where the bedrock out crops to check for any staining. If there is staining please sample it as well.

Thank You  
Brandon Powell  
I & E Supervisor  
New Mexico Oil Conservation  
Office: (505) 334-6178 ext. 116

*"He who wishes to gain knowledge is wiser than he who thinks he has knowledge (unknown)"*

---

**From:** Webre, Matt [<mailto:Matt.Webre@Williams.com>]  
**Sent:** Thursday, January 31, 2013 2:35 PM  
**To:** Powell, Brandon, EMNRD; Dawson Scott ([sdawson@slo.state.nm.us](mailto:sdawson@slo.state.nm.us))  
**Cc:** Valdez, Dwayne  
**Subject:** BGT Closure Request - NEBU 47A

Brandon and Scott,

We are in the process of closing a BGT at NEBU 47A. Excavation activities have been completed and we reached bedrock beneath the BGT. I am requesting approval to backfill based on the information provided in this message.

We collected a composite sample from the excavation sidewalls (NEBU 47A 001 Side Walls) and one from the floor of the excavation (NEBU 47A 002 Bottom Comps). I have attached the analytical results for your review and they are summarized in the following table.

Analyte	NEBU 47A 001 Side Walls	NEBU 47A 002 Bottom Comps
Benzene	<0.050 mg/kg	<0.050 mg/kg
Toluene	<0.050 mg/kg	<0.050 mg/kg
Ethylbenzne	<0.050 mg/kg	<0.050 mg/kg
Xylenes, Total	<0.10 mg/kg	<0.10 mg/kg
Total BTEX	<0.10 mg/kg	<0.10 mg/kg
TPH (418.1)	960 mg/kg	620 mg/kg
Chloride	<7.5 mg/kg	7.6 mg/kg

Based on the NMOCD site ranking criteria determined for the Site: (1) depth to water greater than 100 feet below ground surface, (2) no private, domestic, or water sources located within 1,000 feet, and (3) and no surface water bodies are located within 1000 feet, the remediation action levels were determined to be 10 milligrams per kilogram (mg/kg) for benzene, 50 mg/kg for total BTEX, and 5,000 mg/kg for total TPH. The remediation target for chloride was determined to be 250 mg/kg based on other applicable NMOCD remediation/closure requirements. The analytical data indicates the remaining concentrations are below the remediation action levels listed above.

Can you please provide me with your approval or disapproval to complete final closure activities.

Thanks,

Matt Webre, P.G.  
 Environmental Specialist III  
 Williams Four Corners, LLC  
 (505) 632-4442 work  
 (505) 215-8059 cell  
 (505) 632-4782 fax  
[matt.webre@williams.com](mailto:matt.webre@williams.com)

## **Webre, Matt**

---

**From:** Webre, Matt  
**Sent:** Friday, December 07, 2012 1:02 PM  
**To:** Powell, Brandon, EMNRD  
**Cc:** Valdez, Dwayne; morgankillion@yahoo.com; Ruybalid, Tristen  
**Subject:** Notice of BGT Removal - NEBU 47A

Pursuant to the requirements of the New Mexico Oil Conservation District (OCD), Williams hereby provides notice of the intent to remove the BGT at the following location:

NEBU 47A      API No. 30-045-24220      Unit F, Section 32, Township 31N, Range 7W

Williams operated the BGT to capture liquids from a dehydrator located at the location.

The closure plan was approved by OCD on September 26, 2012. BGT removal is schedule to begin on Wednesday, December 12, 2012.

Please contact me if you have any questions regarding the proposed BGT removal and/or schedule.

Matt Webre, P.G.  
Environmental Specialist III  
Williams Four Corners, LLC  
(505) 632-4442 work  
(505) 215-8059 cell  
(505) 632-4781 fax  
[matt.webre@williams.com](mailto:matt.webre@williams.com)



Environmental Affairs  
188 County Road 4900  
Bloomfield, NM 87413  
505/632-4600  
505/632-4781 Fax

December 20, 2012

Mr. Scott Dawson  
New Mexico State Lands – Oil, Gas, Minerals Division  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501

RE: Notification of Below Ground Tank Closure – NEBU 47A

Dear Mr. Dawson:

Pursuant to the requirements of the New Mexico Oil Conservation District (OCD), Williams hereby provides notice of the intent to remove the BGT at the following location:

NEBU 47A API No. 3004524220 Unit F, Section 32, Township 31N, Range 7W

The closure plan was approved by OCD on September 26, 2012. BGT removal was completed on Wednesday, December 12, 2012.

You may contact me at (505) 632-4442 with any questions regarding this notification.

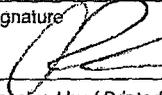
Sincerely,

Matt Webre, P.G.  
Environmental Specialist

I DO HEREBY CERTIFY that this document was sent by CERTIFIED MAIL to the named recipient at the address above on December 20th, 2012 By Kayleigh Ruybalid

certified mail #

7012 0470 0001 1641 2659

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>■ Print your name and address on the reverse so that we can return the card to you.</li> <li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature  <input type="checkbox"/> Agent  <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____ C. Date of Delivery _____</p>
<p>1. Article Addressed to:</p> <p style="margin-left: 20px;">Scott Dawson  New Mexico State Lands  Oil, Gas, Minerals Division  310 Old Santa Fe Trail  Santa Fe, NM 87501</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes  If YES, enter delivery address below: <input type="checkbox"/> No</p> <p style="text-align: center; font-size: 1.2em;">JAN 1 2013</p>
<p>2. Article Number  (Transfer from service label)</p>	<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail  <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
	<p style="text-align: center; font-size: 1.2em;">7012 0470 0001 1641 2659</p>

PS Form 3811, February 2004

Domestic Return Receipt

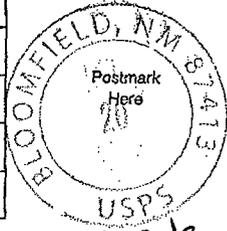
102595-02-M-1540

**U.S. Postal Service<sup>TM</sup>**  
**CERTIFIED MAIL<sup>TM</sup> RECEIPT**  
*(Domestic Mail Only; No Insurance Coverage Provided)*

For delivery information, visit our website at [www.usps.com](http://www.usps.com)

OFFICIAL USE

Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	



Sent To New Mexico State Lands  
Scott Dawson Oil, Gas, Minerals Division  
Street, Apt. No.,  
or PO Box No. 310 Old Santa Fe Trail  
City, State, ZIP+4<sup>®</sup>  
Santa Fe, NM 87501

PS Form 3800, August 2006 See Reverse for Instructions

7012 0470 0001 1641 2659



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

February 18, 2013

Matt Webre

Williams Field Services  
188 Co. Rd 4900  
Bloomfield, New Mexico 87413  
TEL: (505) 632-4442  
FAX

RE: 001 Wall Compsite NeBu #47 A002 5 Pt Compsite Bott

OrderNo.: 1301877

Dear Matt Webre:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/26/2013 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued January 30, 2013.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Williams Field Services**Client Sample ID:** NEBU #47A 001 Side Walls**Project:** 001 Wall Compsite NeBu #47 A002 5 Pt**Collection Date:** 1/25/2013 10:15:00 AM**Lab ID:** 1301877-001**Matrix:** SOIL**Received Date:** 1/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>MMD</b>
Diesel Range Organics (DRO)	70	9.7	H	mg/Kg	1	2/15/2013 10:00:06 AM
Motor Oil Range Organics (MRO)	480	48	H	mg/Kg	1	2/15/2013 10:00:06 AM
Surr: DNOP	122	72.4-120	SH	%REC	1	2/15/2013 10:00:06 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/28/2013 4:01:00 PM
Surr: BFB	96.8	84-116		%REC	1	1/28/2013 4:01:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.050		mg/Kg	1	1/28/2013 4:01:00 PM
Toluene	ND	0.050		mg/Kg	1	1/28/2013 4:01:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/28/2013 4:01:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/28/2013 4:01:00 PM
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	1/28/2013 4:01:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JRR</b>
Chloride	ND	7.5		mg/Kg	5	1/29/2013 11:11:26 AM
<b>EPA METHOD 418.1: TPH</b>						Analyst: <b>ECH</b>
Petroleum Hydrocarbons, TR	960	20		mg/Kg	1	1/30/2013

**Qualifiers:**

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

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

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Williams Field Services**Client Sample ID:** NEBU #47A 002 Bottom Comps**Project:** 001 Wall Compsite NeBu #47 A002 5 Pt**Collection Date:** 1/25/2013 10:30:00 AM**Lab ID:** 1301877-002**Matrix:** SOIL**Received Date:** 1/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b>						Analyst: <b>MMD</b>
Diesel Range Organics (DRO)	39	9.9	H	mg/Kg	1	2/15/2013 11:47:54 AM
Motor Oil Range Organics (MRO)	200	50	H	mg/Kg	1	2/15/2013 11:47:54 AM
Surr: DNOP	121	72.4-120	SH	%REC	1	2/15/2013 11:47:54 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/28/2013 4:29:43 PM
Surr: BFB	106	84-116		%REC	1	1/28/2013 4:29:43 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.050		mg/Kg	1	1/28/2013 4:29:43 PM
Toluene	ND	0.050		mg/Kg	1	1/28/2013 4:29:43 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/28/2013 4:29:43 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/28/2013 4:29:43 PM
Surr: 4-Bromofluorobenzene	107	80-120		%REC	1	1/28/2013 4:29:43 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JRR</b>
Chloride	7.6	1.5		mg/Kg	1	1/29/2013 11:36:16 AM
<b>EPA METHOD 418.1: TPH</b>						Analyst: <b>ECH</b>
Petroleum Hydrocarbons, TR	620	20		mg/Kg	1	1/30/2013

**Qualifiers:** \* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

RL Reporting Detection Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1301877

18-Feb-13

**Client:** Williams Field Services  
**Project:** 001 Wall Composite NeBu #47 A002 5 Pt Comps

Sample ID	MB-5885	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	5885	RunNo:	8340					
Prep Date:	1/29/2013	Analysis Date:	1/29/2013	SeqNo:	240700	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-5885	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	5885	RunNo:	8340					
Prep Date:	1/29/2013	Analysis Date:	1/29/2013	SeqNo:	240701	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.9	90	110			

Sample ID	1301628-003AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	5885	RunNo:	8340					
Prep Date:	1/29/2013	Analysis Date:	1/29/2013	SeqNo:	240717	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	46	7.5	15.00	32.56	91.2	64.4	117			

Sample ID	1301628-003AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	5885	RunNo:	8340					
Prep Date:	1/29/2013	Analysis Date:	1/29/2013	SeqNo:	240718	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	49	7.5	15.00	32.56	110	64.4	117	6.01	20	

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1301877

18-Feb-13

**Client:** Williams Field Services  
**Project:** 001 Wall Compsite NeBu #47 A002 5 Pt Comps

Sample ID	MB-5887	SampType:	MBLK	TestCode:	EPA Method 418.1: TPH					
Client ID:	PBS	Batch ID:	5887	RunNo:	8343					
Prep Date:	1/29/2013	Analysis Date:	1/30/2013	SeqNo:	240843	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	ND	20								

Sample ID	LCS-5887	SampType:	LCS	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS	Batch ID:	5887	RunNo:	8343					
Prep Date:	1/29/2013	Analysis Date:	1/30/2013	SeqNo:	240844	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	99	20	100.0	7.660	91.4	80	120			

Sample ID	LCSD-5887	SampType:	LCSD	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS02	Batch ID:	5887	RunNo:	8343					
Prep Date:	1/29/2013	Analysis Date:	1/30/2013	SeqNo:	240845	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	110	20	100.0	7.660	98.1	80	120	6.56	20	

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1301877

18-Feb-13

**Client:** Williams Field Services  
**Project:** 001 Wall Composite NeBu #47 A002 5 Pt Comps

Sample ID	MB-6121	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	6121	RunNo:	8646					
Prep Date:	2/14/2013	Analysis Date:	2/14/2013	SeqNo:	248522	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	72.4	120			

Sample ID	LCS-6121	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	6121	RunNo:	8646					
Prep Date:	2/14/2013	Analysis Date:	2/14/2013	SeqNo:	248527	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	107	47.4	122			
Surr: DNOP	5.6		5.000		112	72.4	120			

Sample ID	1301877-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	NEBU #47A 001 Sid	Batch ID:	6121	RunNo:	8669					
Prep Date:	2/14/2013	Analysis Date:	2/15/2013	SeqNo:	249106	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	150	9.6	48.03	69.97	167	12.6	148			SH
Surr: DNOP	7.3		4.803		153	72.4	120			SH

Sample ID	1301877-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	NEBU #47A 001 Sid	Batch ID:	6121	RunNo:	8669					
Prep Date:	2/14/2013	Analysis Date:	2/15/2013	SeqNo:	249107	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	110	9.7	48.69	69.97	89.6	12.6	148	27.8	22.5	RH
Surr: DNOP	7.1		4.869		147	72.4	120	0	0	SH

### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

**Sample Log-In Check List**

Client Name: WILLIAMS FIELD SERVICES Work Order Number: 1301877  
 Received by/date: AF 01/26/13  
 Logged By: Anne Thorne 1/26/2013 10:00:00 AM *Anne Thorne*  
 Completed By: Anne Thorne 1/28/2013 *Anne Thorne*  
 Reviewed By: *mg* 01/28/13

**Chain of Custody**

1. Were seals intact? Yes  No  Not Present
2. Is Chain of Custody complete? Yes  No  Not Present
3. How was the sample delivered? Courier

**Log In**

4. Coolers are present? (see 19. for cooler specific information) Yes  No  NA
5. Was an attempt made to cool the samples? Yes  No  NA
6. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
7. Sample(s) in proper container(s)? Yes  No
8. Sufficient sample volume for indicated test(s)? Yes  No
9. Are samples (except VOA and ONG) properly preserved? Yes  No
10. Was preservative added to bottles? Yes  No  NA
11. VOA vials have zero headspace? Yes  No  No VOA Vials
12. Were any sample containers received broken? Yes  No
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes  No
14. Are matrices correctly identified on Chain of Custody? Yes  No
15. Is it clear what analyses were requested? Yes  No
16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes  No

# of preserved bottles checked for pH: \_\_\_\_\_  
 (<2 or >12 unless noted)  
 Adjusted? \_\_\_\_\_  
 Checked by: \_\_\_\_\_

**Special Handling (if applicable)**

17. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	_____	Date	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

18. Additional remarks:

**19. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.3	Good	Yes			

# Chain-of-Custody Record

Client: WFS

Mailing Address: 188 CK 4900  
Bloomfield NM 87413

Phone #: 505-215

email or Fax#: Matt.Webre@williams.com

QA/QC Package:  
 Standard  Level 4 (Full Validation)

Accreditation  
 NELAP  Other \_\_\_\_\_

EDD (Type) \_\_\_\_\_

Turn-Around Time:  
 Standard  Rush 3 Day Turn

Project Name: 001 Wall Comp Site  
NEBU #47A 002 5 Point Comp Site Bottom

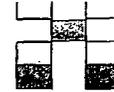
Project #:

Project Manager: Matt Webre

Sampler: Morgan Killion

On Ice:  Yes  No

Sample Temperature: 4.3 C



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107

### Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride	Air Bubbles (Y or N)
1-25-13	1015	Soil	NEBU #47A 001 <sup>side</sup> walls	1-402	Cool	001	X			X								X	
1-25-13	1030	Soil	NEBU #47A 002 <sup>Bottom</sup> Comp Site	1-402	Cool	002	X			X								X	

Date: 1-25-13 Time: 1235 Relinquished by: Morgan Killion

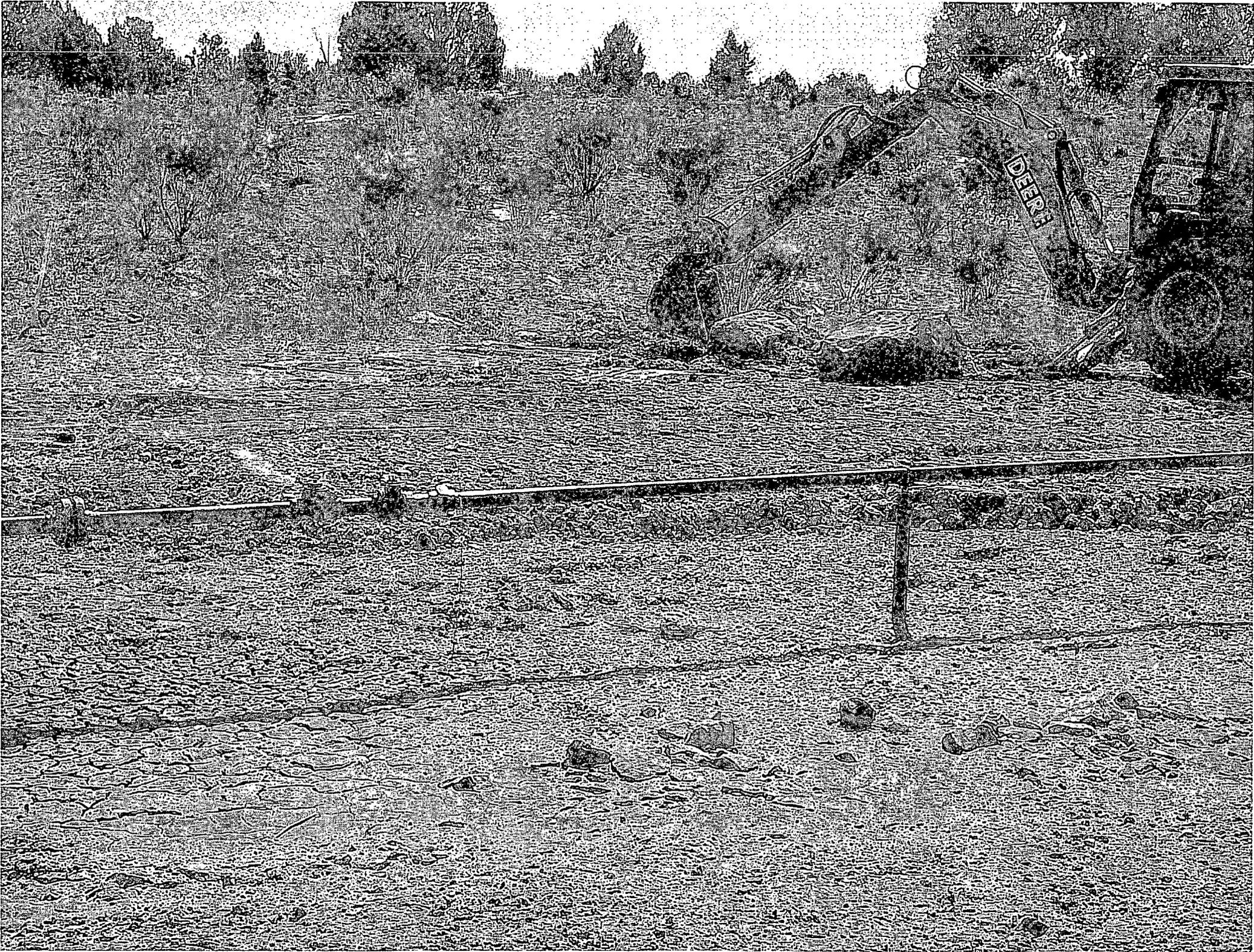
Date: 1-25-13 Time: 1710 Relinquished by: Christine Whelan

Received by: Christine Whelan Date: 1/25/13 Time: 1235

Received by: [Signature] Date: 1/26/13 Time: 10:00

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.





Environmental Affairs  
188 County Road 4900  
Bloomfield, NM 87413  
505/632-4600  
505/632-4781 Fax

April 24, 2013

Mr. Jonathan Kelly  
New Mexico Oil Conservation Division  
1000 Rio Brazos  
Aztec, NM 87410

**RCVD APR 26 '13  
OIL CONS. DIV.  
DIST. 3**

RE: C-144 NEBU 47A Below-Grade Tank Removal  
API No. 30-045-24220  
Unit F, Section 23, Township 31 North, Range 7 West  
Rio Arriba County, New Mexico

Dear Mr. Kelly:

Attached is the C-144 for the Williams Four Corners LLC (WFC) below-grade tank (BGT) that was removed from location at the NEBU 47A.

The TPH concentration as determined by United States Environmental Protection Agency (USEPA) Method 418.1 in the confirmation sample exceeded the New Mexico Oil and Gas Conservation Division (NMOCD) standard for BGT pit closures established in 19.15.17 New Mexico Administrative Code (NMAC). The sample was also analyzed for total petroleum hydrocarbons – gasoline range organics (TPH-GRO) and total petroleum hydrocarbons – diesel range organics (TPH-DRO) by USEPA Method 8015. No benzene, toluene, ethyl benzene, xylenes (BTEX) or TPH components (TPH-GRO and TPH-DRO) were detected in the soil sample. Based on this information, it can be deduced that the remaining soil impact beneath the former BGT is in the heavier hydrocarbon range (oil range organics), which is less likely to mobilize in the soil. It should be noted that there was a liner in place below the BGT prior to closure. Brandon Powell with the NMOCD was contacting prior to backfilling and indicated that no additional remediation activities would be required based on the TPH-GRO and TPH-DRO results. Clean backfill has been placed above the impacted soil, providing separation of the impacted soil from potential surface receptors.

Additionally, the presence of shallow sandstone bedrock present in the area will restrict vertical migration of the TPH and contact with groundwater which is greater than 100 feet below the ground surface. It also should be noted that there are no water wells and surface water located within 1,000 feet of the former BGT location. Based on the information provided above, WFC requests approval of this C-144 for closure of the BGT at NEBU 47A.

Please contact me at (505) 632-4442 with any questions regarding this submittal.

April 24, 2013  
Mr. Jonathan Kelly  
Page 2 of 2

Sincerely,

A handwritten signature in black ink, appearing to read "Matt Webre", with a long horizontal flourish extending to the right.

Matt Webre, P.G.  
Environmental Specialist

Attachments

CC: Scott Dawson (New Mexico State Lands)