

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

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

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.

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

10613

- 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: Florance Y44A
API Number: 3004522249 OCD Permit Number: Not Applicable
U/L or Qtr/Qtr O Section 31 Township 30 N Range 8 W County San Juan
Center of Proposed Design: Latitude 36.76386 Longitude -107.71238 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 _____

OIL CONS. DIV DIST. 3
JUL 01 2013

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: Condensate/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 _____ 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. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - 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. (Applies to permanent pits) - 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 H₂S, Prevention Plan
- Emergency Response Plan
- Oil Field Waste Stream Characterization
- Monitoring and Inspection Plan
- Erosion Control Plan
- Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

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. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <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). - 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. - 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. - 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. - 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

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: 7/9/2013
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: May 10, 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 Envirotech, Inc., NM-01-0011
- Soil Backfilling and Cover Installation Completed May 10, 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: June 28, 2013
e-mail address: matt.webre@williams.com Telephone: (505) 632-4442



Williams Four Corners LLC
Below Grade Tank Closure Report
Well Name: Florance Y44A
API Number: 30-045-22249

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). Bedrock was encountered at the excavation floor with elevated TPH concentration. Per verbal approval from NMOCD via a phone conversation between Brandon Powell (NMOCD) and Matt Webre (Williams), potassium permanganate was applied to the floor of the excavation to address residual hydrocarbon impacts.

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: Wednesday, April 03, 2013 5:10 PM
To: 'charlie.perrin@state.nm.us'; Sherrie Landon (slandon@blm.gov)
Cc: Valdez, Dwayne
Subject: Remedy Approval for Florance Y44A - Please Response At Your Earliest Convenience
Attachments: 1303B96.pdf; Rpt_1303B96_Final_v1.pdf

Importance: High

Charlie and Sherrie,

We are in the process of closing a BGT at Florance Y44A. 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 are recommending that we apply potassium permanganate to the excavation floor and the small visibly stained area located on the southeast sidewall were a thin layer (18-inches) of impacted soil remains. The excavation is currently 47 feet x 36 feet wide by 9 feet deep. The small layer of impacted soil remaining (8 to 9 feet below the surface) was excavated back to the edge of the well pad and was been observed to be thinning out. Williams halted excavation activities of the remaining stained soil because we would be required to excavate material off the well pad.

Williams collected a composite sample from the excavation floor (**Florance Y 44A Bottom**) and one from the excavation sidewalls (**Florance Y 44A Side Walls**). We also collected a sample (**Florance Y-44A S/E Corner 10'**) from a visually impacted zone. I have attached the analytical results for your review and they are summarized in the following table.

Analyte	Florance Y 44A Bottom	Florance Y 44A Side Walls	Florance Y-44A S/E Corner 10'
Benzene	2.8 mg/kg	<0.050 mg/kg	<0.25 mg/kg
Toluene	50 mg/kg	<0.050 mg/kg	<0.50 mg/kg
Ethylbenzne	10 mg/kg	<0.050 mg/kg	<0.50 mg/kg
Xylenes, Total	220 mg/kg	<0.10 mg/kg	<1.0 mg/kg
Total BTEX	282.8 mg/kg	ND	ND
TPH (418.1)	600 mg/kg	390 mg/kg	6300 mg/kg
TPH GRO	3500 mg/kg	<5.0 mg/kg	560 mg/kg
TPH DRO	22 mg/kg	12 mg/kg	2000 mg/kg
Chloride	31 mg/kg	220 mg/kg	NA

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) a surface water body greater than 1,000 feet away, 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 some of the remaining concentrations exceed the remediation action levels listed above.

Williams is proposing to apply potassium permanganate to the excavation to address the elevation concentrations. After the application, Williams will backfill the former BGT location.

Can you please provide me with your approval or disapproval to complete recommended closure activities at your earliest convenience. The produced was required to shut-in the well during remediation and is anxious to get this work completed ASAP.

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

Webre, Matt

From: Webre, Matt
Sent: Wednesday, May 08, 2013 4:16 PM
To: 'Kelly, Mark'; Landon, Sherrie; Powell, Brandon, EMNRD; Perrin, Charlie, EMNRD
Cc: Valdez, Dwayne
Subject: RE: Remedy Approval for Florance Y44A - Please Response At Your Earliest Convenience

I wanted to provide you all with an update for this work. We completed our excavation of the impacted material that Mark Kelly requested we complete as documented in the email below. Williams received preliminary lab results today indicating the concentrations are below all the cleanup standards for the sidewall/impacted zone that required the additional excavation. We are getting a application volume for the potassium permanganate from Envirotech at this time. Our proposed path moving forward is that I will submit a formal request to OCD regarding the potassium permanganate application after that information is received, unless OCD can provide the approval at this time. Once received, Williams will complete the potassium permanganate application and then backfill the excavation so BP can get their production back up at the location. BLM already provided approval for the potassium permanganate in the email below.

Please call me with any questions.

Matt Webre, P.G.
Environmental Services
(505) 632-4442 work
(505) 215-8059 cell
matt.webre@williams.com

From: Kelly, Mark [mailto:mkelly@blm.gov]
Sent: Thursday, April 04, 2013 3:52 PM
To: Landon, Sherrie; Webre, Matt; Powell, Brandon, EMNRD
Subject: Re: Remedy Approval for Florance Y44A - Please Response At Your Earliest Convenience

Matt,

Per our telephone conversation today regarding the contaminated levels at this well site. Pursuant to BLM FFO NTL 93-1 "Unlined Surface Impoundment Closure Guidelines", requirements state that contaminated soils must be excavated to the maximum depth and horizontal extent practicable. Based on your report, the practical depth of the excavation has been reached and the proposed potassium permanganate may be applied to the bottom of the excavation prior to closure. However, the horizontal extent has not been achieved. According to the test data that was submitted for the SE corner of the excavated area, the TPH, DRO and GRO levels do not meet the minimum closure level limits. Based on this data, excavation of the contaminated soils should continue until test results determine that the contamination has been removed or until the practical extent of the excavation has been reached. As we discussed earlier, because the excavation is at the edge of the existing well location, any new surface disturbance will need to have NEPA clearance prior to proceeding with the excavation.

Let me know if you have more questions.

Regards,
Mark

On Thu, Apr 4, 2013 at 6:02 AM, Landon, Sherrie <slandon@blm.gov> wrote:

----- Forwarded message -----

From: **Webre, Matt** <Matt.Webre@williams.com>

Date: Wed, Apr 3, 2013 at 5:09 PM

Subject: Remedy Approval for Florance Y44A - Please Response At Your Earliest Convenience

To: "charlie.perrin@state.nm.us" <charlie.perrin@state.nm.us>, "Sherrie Landon (slandon@blm.gov)" <slandon@blm.gov>

Cc: "Valdez, Dwayne" <Dwayne.Valdez@williams.com>

Charlie and Sherrie,

We are in the process of closing a BGT at Florance Y44A. 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 are recommending that we apply potassium permanganate to the excavation floor and the small visibly stained area located on the southeast sidewall were a thin layer (18-inches) of impacted soil remains. The excavation is currently 47 feet x 36 feet wide by 9 feet deep. The small layer of impacted soil remaining (8 to 9 feet below the surface) was excavated back to the edge of the well pad and was observed to be thinning out. Williams halted excavation activities of the remaining stained soil because we would be required to excavate material off the well pad.

Williams collected a composite sample from the excavation floor (**Florance Y 44A Bottom**) and one from the excavation sidewalls (**Florance Y 44A Side Walls**). We also collected a sample (**Florance Y-44A S/E Corner 10'**) from a visually impacted zone. I have attached the analytical results for your review and they are summarized in the following table.

Analyte	Florance Y 44A Bottom	Florance Y 44A Side Walls	Florance Y-44A S/E Corner 10'
Benzene	2.8 mg/kg	<0.050 mg/kg	<0.25 mg/kg
Toluene	50 mg/kg	<0.050 mg/kg	<0.50 mg/kg
Ethylbenzene	10 mg/kg	<0.050 mg/kg	<0.50 mg/kg
Xylenes, Total	220 mg/kg	<0.10 mg/kg	<1.0 mg/kg
Total BTEX	282.8 mg/kg	ND	ND
TPH (418.1)	600 mg/kg	390 mg/kg	6300 mg/kg
TPH GRO	3500 mg/kg	<5.0 mg/kg	560 mg/kg
TPH DRO	22 mg/kg	12 mg/kg	2000 mg/kg
Chloride	31 mg/kg	220 mg/kg	NA

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) a surface water body greater than 1,000 feet away, 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 some of the remaining concentrations exceed the remediation action levels listed above.

Williams is proposing to apply potassium permanganate to the excavation to address the elevation concentrations. After the application, Williams will backfill the former BGT location.

Can you please provide me with your approval or disapproval to complete recommended closure activities at your earliest convenience. The produced was required to shut-in the well during remediation and is anxious to get this work completed ASAP.

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

Webre, Matt

From: Landon, Sherrie [slandon@blm.gov]
Sent: Thursday, May 09, 2013 2:03 PM
To: Webre, Matt
Subject: Re: Request for Approval to Apply Potassium Permanganate at Florance Y44A

You have the go ahead from the BLM. I will stop at the location tomorrow and just check in. thanks sherrie

On Thu, May 9, 2013 at 8:56 AM, Webre, Matt <Matt.Webre@williams.com> wrote:
Brandon,

Williams is requesting approval to apply 350 gallons of potassium permanganate solution on the floor of a 59 feet by 48 feet excavation as part of the BGT closure at the Florance Y44A located in Unit O, Section 31, Township 30N, Range 8W.

Application is scheduled to be completed by Envirotech on Friday, May 10, 2013 once approval is received from the OCD.

Please let me know at your earliest convenience.

Thanks,

Matt Webre, P.G.
Environmental Specialist III
Williams Four Corners, LLC
[\(505\) 632-4442](tel:5056324442) work
[\(505\) 215-8059](tel:5052158059) cell
[\(505\) 632-4782](tel:5056324782) fax
matt.webre@williams.com

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

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 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 Florance Y44A	Facility Type Below Grade Tank Removal
Surface Owner Bureau of Land Management	Mineral Owner
API No.	

LOCATION OF RELEASE

Unit Letter O	Section 31	Township 30N	Range 8W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
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Latitude 36.76386 N Longitude 107.71238 W

NATURE OF RELEASE

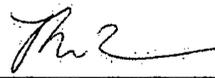
Type of Release N/A – Below Grade Tank Removal	Volume of Release 0	Volume Recovered 0
Source of Release Below Grade Tank	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not 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: 	<u>OIL CONSERVATION DIVISION</u>	
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: 6/28/2013	Phone: 505-632-4442	

* Attach Additional Sheets If Necessary

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

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.

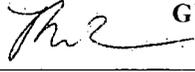
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
Williams Four Corners LLC., 188 Country Road 4900, Bloomfield, NM 87413

2. **Originating Site:**
Florance Y44A

3. **Location of Material (Street Address, City, State or ULSTR):**
Unit O, Section 31, Township 30N, Range 8W

4. **Source and Description of Waste:**
Source/Description: Produced water/condensate release from below-grade tank/Soil impacted from release
Estimated Volume 100 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) _____ yd³ / bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**
I, Matt Webre , representative or authorized agent for Williams Four Corners LLC 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)
 RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. Operator Use Only: Waste Acceptance Frequency. Monthly Weekly Per-Load
 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)
 MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS
I, Matt Webre , representative for Williams Four Corners, LLC authorize Envirotech, Inc. to complete the required testing/sign the Generator Waste Testing Certification.
I, _____, representative for Envirotech, Inc. 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.

5. **Transporter:**

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Remediation Facility Permit # NM-01-0011

Address of Facility: Hilltop, New Mexico

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

Webre, Matt

From: Webre, Matt
Sent: Friday, December 07, 2012 12:46 PM
To: Powell, Brandon, EMNRD
Cc: Valdez, Dwayne; morgankillion@yahoo.com; Ruybalid, Tristen
Subject: Notice of BGT Removal - Florance Y44A

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:

Florance Y44A API No. 30-045-22249 Unit O, Section 31, Township 30N, Range 8W

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

The closure plan was approved by OCD on November 19, 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



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

December 7, 2012

Mr. Mark Kelly
USBLM – Farmington District
1235 La Plata Highway, Suite A
Farmington, New Mexico 87401

RE: Notification of Below Ground Tank Closure – Florance Y44A

Dear Mr. Kelly:

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:

Florance Y44A API No. 3004522249 Unit O, Section 31, Township 30N, Range 8W

The closure plan was approved by OCD on November 19, 2012. BGT removal is schedule to begin 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 10th, 2012 . By Kayleigh Ruybatid

Certified Mail #

7012 0470 0001 1641 2666

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mark Kelly
 USBLM-Farmington District
 1235 La Plata Highway
 Suite A
 Farmington, NM 87401

2. Article Number
(Transfer from service label)

7012 0470 0001 1641 2666

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 X *[Signature]* Addressee

B. Received by (Printed Name) *[Signature]*
 C. Date of Delivery *12-11-12*

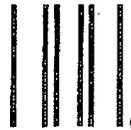
D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

*6251 COLLEGE BLVD
 STE A
 FARMINGTON, NM 87402*

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

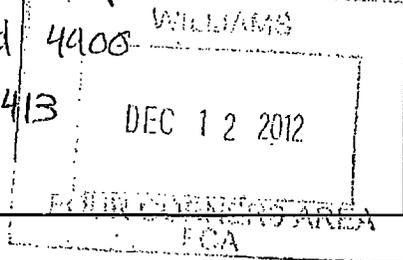
UNITED STATES POSTAL SERVICE



First-Class Mail
 Postage & Fees Paid
 USPS
 Permit No. G-10

• Sender: Please print your name, address, and ZIP+4 in this box •

Williams Four Corners, LLC
 Attn: Environmental Dept.
 188 County Road 4400
 Bloomfield, NM 87413



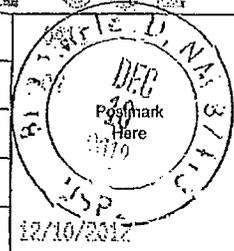
U.S. Postal Service[™]
CERTIFIED MAIL[™] RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

NOT FOR POSTAL USE

7012 0470 0001 1641 2666

Postage	\$ 10.45
Certified Fee	\$2.75
Return Receipt Fee (Endorsement Required)	\$2.35
Restricted Delivery Fee (Endorsement Required)	\$0.00
Total Postage & Fees	\$ 15.55



Sent To
 Mark Kelly, USBLM-Farmington District
 Street, Apt. No.,
 or PO Box No. 1235 La Plata Hwy, Suite A
 City, State, ZIP+4
 Farmington, NM 87401



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

April 01, 2013

Matt Webre

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

RE: Florence Y 44A 10'-6"

OrderNo.: 1303B96

Dear Matt Webre:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/30/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Williams Field Services**Client Sample ID:** Florance Y-44A S/E Corner 10'-**Project:** Florence Y 44A 10'-6"**Collection Date:** 3/29/2013 1:30:00 PM**Lab ID:** 1303B96-001**Matrix:** SOIL**Received Date:** 3/30/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: MMD
Diesel Range Organics (DRO)	2000	100		mg/Kg	10	4/1/2013 12:03:54 PM
Surr: DNOP	0	72.4-120	S	%REC	10	4/1/2013 12:03:54 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	560	50		mg/Kg	10	3/30/2013 2:35:37 PM
Surr: BFB	500	84-116	S	%REC	10	3/30/2013 2:35:37 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.25		mg/Kg	10	3/30/2013 2:35:37 PM
Toluene	ND	0.50		mg/Kg	10	3/30/2013 2:35:37 PM
Ethylbenzene	ND	0.50		mg/Kg	10	3/30/2013 2:35:37 PM
Xylenes, Total	ND	1.0		mg/Kg	10	3/30/2013 2:35:37 PM
Surr: 4-Bromofluorobenzene	125	80-120	S	%REC	10	3/30/2013 2:35:37 PM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	6300	200		mg/Kg	10	4/1/2013

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#: 1303B96

01-Apr-13

Client: Williams Field Services

Project: Florence Y 44A 10'-6"

Sample ID	MB-6747	SampType:	MBLK	TestCode:	EPA Method 418.1: TPH					
Client ID:	PBS	Batch ID:	6747	RunNo:	9548					
Prep Date:	4/1/2013	Analysis Date:	4/1/2013	SeqNo:	272505	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-6747	SampType:	LCS	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS	Batch ID:	6747	RunNo:	9548					
Prep Date:	4/1/2013	Analysis Date:	4/1/2013	SeqNo:	272506	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	88	20	100.0	0	88.4	80	120			

Sample ID	LCSD-6747	SampType:	LCSD	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS02	Batch ID:	6747	RunNo:	9548					
Prep Date:	4/1/2013	Analysis Date:	4/1/2013	SeqNo:	272507	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	91	20	100.0	0	90.9	80	120	2.79	20	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303B96

01-Apr-13

Client: Williams Field Services

Project: Florence Y 44A 10'-6"

Sample ID	MB-6751	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	6751	RunNo:	9544					
Prep Date:	4/1/2013	Analysis Date:	4/1/2013	SeqNo:	272410	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.5		10.00		95.0	72.4	120			

Sample ID	LCS-6751	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	6751	RunNo:	9544					
Prep Date:	4/1/2013	Analysis Date:	4/1/2013	SeqNo:	272411	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.4	47.4	122			
Surr: DNOP	5.3		5.000		105	72.4	120			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303B96

01-Apr-13

Client: Williams Field Services

Project: Florence Y 44A 10'-6"

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	R9512	RunNo:	9512					
Prep Date:		Analysis Date:	3/30/2013	SeqNo:	271773	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	890		1000		88.6	84	116			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	R9512	RunNo:	9512					
Prep Date:		Analysis Date:	3/30/2013	SeqNo:	271774	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	62.6	136			
Surr: BFB	940		1000		94.3	84	116			

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#: 1303B96

01-Apr-13

Client: Williams Field Services

Project: Florence Y 44A 10'-6"

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	R9512	RunNo:	9512					
Prep Date:		Analysis Date:	3/30/2013	SeqNo:	271814	Units:	mg/Kg			
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	0.91		1.000		90.7	80	120			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	R9512	RunNo:	9512					
Prep Date:		Analysis Date:	3/30/2013	SeqNo:	271815	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	104	80	120			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.0	0.050	1.000	0	105	80	120			
Xylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

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

Sample Log-In Check List

Client Name: WILLIAMS FIELD SERVI

Work Order Number: 1303B96

RcptNo: 1

Received by/date: AT 03/30/13
 Logged By: Anne Thorne 3/30/2013 10:00:00 AM
 Completed By: Anne Thorne 3/30/2013
 Reviewed By: AT 03/30/13

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?

Log In

- 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
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. 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)

- 16. 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:			

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good	Yes			



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

April 04, 2013

Matt Webre

Williams Field Services

188 Co. Rd 4900

Bloomfield, New Mexico 87413

TEL: (505) 632-4442

FAX

RE: Walls & Bottoms Florance Y 44A Confirmation Sample

OrderNo.: 1304055

Dear Matt Webre:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/2/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Williams Field Services**Client Sample ID:** Florance Y 44A Bottom**Project:** Walls & Bottoms Florance Y 44A Confir**Collection Date:** 4/1/2013 1:00:00 PM**Lab ID:** 1304055-001**Matrix:** SOIL**Received Date:** 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: MMD
Diesel Range Organics (DRO)	22	9.8		mg/Kg	1	4/2/2013 1:49:53 PM
Surr: DNOP	108	72.4-120		%REC	1	4/2/2013 1:49:53 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	3500	50		mg/Kg	10	4/2/2013 2:57:34 PM
Surr: BFB	722	84-116	S	%REC	10	4/2/2013 2:57:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	2.8	0.50		mg/Kg	10	4/2/2013 2:57:34 PM
Toluene	50	5.0		mg/Kg	100	4/2/2013 4:52:24 PM
Ethylbenzene	10	0.50		mg/Kg	10	4/2/2013 2:57:34 PM
Xylenes, Total	220	10		mg/Kg	100	4/2/2013 4:52:24 PM
Surr: 4-Bromofluorobenzene	105	80-120		%REC	100	4/2/2013 4:52:24 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Chloride	31	30		mg/Kg	20	4/2/2013 12:34:24 PM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	600	20		mg/Kg	1	4/2/2013 12:00:00 PM

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: Florance Y 44A Side Walls

Project: Walls & Bottoms Florance Y 44A Confir

Collection Date: 4/1/2013 1:36:00 PM

Lab ID: 1304055-002

Matrix: SOIL

Received Date: 4/2/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: MMD
Diesel Range Organics (DRO)	12	9.8		mg/Kg	1	4/2/2013 2:11:33 PM
Surr: DNOP	102	72.4-120		%REC	1	4/2/2013 2:11:33 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/2/2013 3:26:17 PM
Surr: BFB	101	84-116		%REC	1	4/2/2013 3:26:17 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/2/2013 3:26:17 PM
Toluene	ND	0.050		mg/Kg	1	4/2/2013 3:26:17 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/2/2013 3:26:17 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/2/2013 3:26:17 PM
Surr: 4-Bromofluorobenzene	97.9	80-120		%REC	1	4/2/2013 3:26:17 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Chloride	220	30		mg/Kg	20	4/2/2013 12:46:48 PM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	390	20		mg/Kg	1	4/2/2013 12:00:00 PM

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#: 1304055

04-Apr-13

Client: Williams Field Services

Project: Walls & Bottoms Florance Y 44A Confirmation

Sample ID	MB-6784	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	6784	RunNo:	9604					
Prep Date:	4/2/2013	Analysis Date:	4/2/2013	SeqNo:	273886	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-6784	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	6784	RunNo:	9604					
Prep Date:	4/2/2013	Analysis Date:	4/2/2013	SeqNo:	273887	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	16	1.5	15.00	0	103	90	110			

Sample ID	1303B79-001AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	6784	RunNo:	9604					
Prep Date:	4/2/2013	Analysis Date:	4/2/2013	SeqNo:	273891	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	51	15	15.00	34.77	107	64.4	117			

Sample ID	1303B79-001AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	6784	RunNo:	9604					
Prep Date:	4/2/2013	Analysis Date:	4/2/2013	SeqNo:	273892	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	48	15	15.00	34.77	87.7	64.4	117	5.74	20	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1304055

04-Apr-13

Client: Williams Field Services
Project: Walls & Bottoms Florance Y 44A Confirmation

Sample ID	MB-6792	SampType:	MBLK	TestCode:	EPA Method 418.1: TPH					
Client ID:	PBS	Batch ID:	6792	RunNo:	9578					
Prep Date:	4/2/2013	Analysis Date:	4/2/2013	SeqNo:	273231	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-6792	SampType:	LCS	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS	Batch ID:	6792	RunNo:	9578					
Prep Date:	4/2/2013	Analysis Date:	4/2/2013	SeqNo:	273232	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	93	20	100.0	0	92.6	80	120			

Sample ID	LCSD-6792	SampType:	LCSD	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS02	Batch ID:	6792	RunNo:	9578					
Prep Date:	4/2/2013	Analysis Date:	4/2/2013	SeqNo:	273233	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	91	20	100.0	0	91.4	80	120	1.35	20	

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#: 1304055

04-Apr-13

Client: Williams Field Services
Project: Walls & Bottoms Florance Y 44A Confirmation

Sample ID	MB-6790	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	6790	RunNo:	9569					
Prep Date:	4/2/2013	Analysis Date:	4/2/2013	SeqNo:	273111	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.5		10.00		95.0	72.4	120			

Sample ID	LCS-6790	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	6790	RunNo:	9569					
Prep Date:	4/2/2013	Analysis Date:	4/2/2013	SeqNo:	273112	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	47.4	122			
Surr: DNOP	5.3		5.000		105	72.4	120			

Sample ID	1303B09-002AMS	SampType:	MS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	6751	RunNo:	9576					
Prep Date:	4/1/2013	Analysis Date:	4/2/2013	SeqNo:	274056	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.7		5.045		113	72.4	120			

Sample ID	1303B09-002AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	6751	RunNo:	9576					
Prep Date:	4/1/2013	Analysis Date:	4/2/2013	SeqNo:	274057	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.5		4.869		114	72.4	120	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1304055

04-Apr-13

Client: Williams Field Services
Project: Walls & Bottoms Florance Y 44A Confirmation

Sample ID MB-6738	SampType: MBLK	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: PBS	Batch ID: R9583	RunNo: 9583								
Prep Date: 3/29/2013	Analysis Date: 4/2/2013	SeqNo: 273935	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	860		1000		86.4	84	116			

Sample ID LCS-6738	SampType: LCS	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: LCSS	Batch ID: R9583	RunNo: 9583								
Prep Date: 3/29/2013	Analysis Date: 4/2/2013	SeqNo: 273936	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	62.6	136			
Surr: BFB	950		1000		95.4	84	116			

Sample ID 5ML RB	SampType: MBLK	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: PBS	Batch ID: R9583	RunNo: 9583								
Prep Date:	Analysis Date: 4/2/2013	SeqNo: 273962	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	890		1000		88.8	84	116			

Sample ID 2.5UG GRO LCS	SampType: LCS	TestCode: EPA Method 8015B: Gasoline Range								
Client ID: LCSS	Batch ID: R9583	RunNo: 9583								
Prep Date:	Analysis Date: 4/2/2013	SeqNo: 273963	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	62.6	136			
Surr: BFB	930		1000		93.1	84	116			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1304055

04-Apr-13

Client: Williams Field Services

Project: Walls & Bottoms Florance Y 44A Confirmation

Sample ID	MB-6738	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	R9583	RunNo:	9583					
Prep Date:	3/29/2013	Analysis Date:	4/2/2013	SeqNo:	273969	Units:	mg/Kg			
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	0.96		1.000		95.5	80	120			

Sample ID	LCS-6738	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	R9583	RunNo:	9583					
Prep Date:	3/29/2013	Analysis Date:	4/2/2013	SeqNo:	273970	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	107	80	120			
Toluene	1.1	0.050	1.000	0	108	80	120			
Ethylbenzene	1.1	0.050	1.000	0	107	80	120			
Xylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Qualifiers:

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

Client Name: WILLIAMS FIELD SERVI

Work Order Number: 1304055

RcptNo: 1

Received by/date: ML 04/02/13

Logged By: **Anne Thorne** 4/2/2013 9:50:00 AM

Completed By: **Anne Thorne** 4/2/2013

Reviewed By: IG 04/2/2013

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?

Log In

- 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
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. 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)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No.	Temp °C	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: WFS

Mailing Address: 188 CR 4900
Bloomfield NM 87413

Phone #: 505-632-4442
 email or Fax#: matthew@williams.com

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

Accreditation
 NELAP Other _____

EDD (Type) _____

Turn-Around Time:
 Standard Rush Same Day

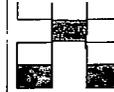
Project Name: Walls & Boffens

Project #: Florence Y44A CONFIRMATION SCOTE

Project Manager: Matt Webre

Sampler: Morgan Killion
 On Ice Yes No

Sample Temperature: 1/10



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 + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride	Air Bubbles (Y or N)	
4-1-13	13:00	soil	Florence Y44A Bottom	1-402	ICE	-001	X		X	X									X	
4-1-13	13:36	soil	Florence Y44A side wells	1-402	ICE	-001	X		X	X									X	

Date: <u>4-1-13</u>	Time: <u>1545</u>	Relinquished by: <u>Morgan Killion</u>	Received by: <u>Christine Warren</u>	Date: <u>4/1/13</u>	Time: <u>1545</u>
Date: <u>4/2/13</u>	Time: <u>630</u>	Relinquished by: <u>Christine Warren</u>	Received by: <u>Matt Webre</u>	Date: <u>04/02/13</u>	Time: <u>0950</u>

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 notated on the analytical report.



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

May 10, 2013

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

RE: Florance Y # 44A East Wall Composite

OrderNo.: 1305277

Dear Matt Webre:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/8/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

Sincerely,

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: Florance #44A East Wall

Project: Florance Y # 44A East Wall Composite

Collection Date: 5/7/2013 3:00:00 PM

Lab ID: 1305277-001

Matrix: MEOH (SOIL)

Received Date: 5/8/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: GSA
Diesel Range Organics (DRO)	12	10		mg/Kg	1	5/8/2013 12:42:53 PM
Surr: DNOP	108	63-147		%REC	1	5/8/2013 12:42:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/8/2013 11:46:28 AM
Surr: BFB	94.5	80-120		%REC	1	5/8/2013 11:46:28 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	5/8/2013 11:46:28 AM
Toluene	ND	0.050		mg/Kg	1	5/8/2013 11:46:28 AM
Ethylbenzene	ND	0.050		mg/Kg	1	5/8/2013 11:46:28 AM
Xylenes, Total	ND	0.10		mg/Kg	1	5/8/2013 11:46:28 AM
Surr: 4-Bromofluorobenzene	100	80-120		%REC	1	5/8/2013 11:46:28 AM
EPA METHOD 418.1: TPH						Analyst: LRW
Petroleum Hydrocarbons, TR	26	20		mg/Kg	1	5/8/2013 12:00:00 PM

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#: 1305277

10-May-13

Client: Williams Field Services
Project: Florance Y # 44A East Wall Composite

Sample ID: MB-7351	SampType: MBLK	TestCode: EPA Method 418.1: TPH								
Client ID: PBS	Batch ID: 7351	RunNo: 10481								
Prep Date: 5/8/2013	Analysis Date: 5/8/2013	SeqNo: 296334 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-7351	SampType: LCS	TestCode: EPA Method 418.1: TPH								
Client ID: LCSS	Batch ID: 7351	RunNo: 10481								
Prep Date: 5/8/2013	Analysis Date: 5/8/2013	SeqNo: 296335 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	99	20	100.0	0	99.1	80	120			

Sample ID: LCSD-7351	SampType: LCSD	TestCode: EPA Method 418.1: TPH								
Client ID: LCSS02	Batch ID: 7351	RunNo: 10481								
Prep Date: 5/8/2013	Analysis Date: 5/8/2013	SeqNo: 296336 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	100	20	100.0	0	102	80	120	2.84	20	

Qualifiers:

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- 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#: 1305277

10-May-13

Client: Williams Field Services
Project: Florance Y # 44A East Wall Composite

Sample ID: MB-7350	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: PBS	Batch ID: 7350	RunNo: 10475								
Prep Date: 5/8/2013	Analysis Date: 5/8/2013	SeqNo: 296054	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		111	63	147			

Sample ID: LCS-7350	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 7350	RunNo: 10475								
Prep Date: 5/8/2013	Analysis Date: 5/8/2013	SeqNo: 296055	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.6	47.4	122			
Surr: DNOP	4.4		5.000		87.0	63	147			

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1305277

10-May-13

Client: Williams Field Services
Project: Florance Y # 44A East Wall Composite

Sample ID: MB-7324	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 7324	RunNo: 10472								
Prep Date: 5/7/2013	Analysis Date: 5/8/2013	SeqNo: 296777	Units: %REC							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		93.8	80	120			

Sample ID: LCS-7324	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 7324	RunNo: 10472								
Prep Date: 5/7/2013	Analysis Date: 5/8/2013	SeqNo: 296778	Units: %REC							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		103	80	120			

Sample ID: 1305156-001AMS	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BatchQC	Batch ID: 7324	RunNo: 10472								
Prep Date: 5/7/2013	Analysis Date: 5/8/2013	SeqNo: 296780	Units: %REC							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	990		941.6		106	80	120			

Sample ID: 1305156-001AMSD	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BatchQC	Batch ID: 7324	RunNo: 10472								
Prep Date: 5/7/2013	Analysis Date: 5/8/2013	SeqNo: 296781	Units: %REC							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	980		942.5		104	80	120	0	0	

Sample ID: MB-7324	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: R10472	RunNo: 10472								
Prep Date: 5/7/2013	Analysis Date: 5/8/2013	SeqNo: 296787	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		93.8	80	120			

Sample ID: LCS-7324	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: R10472	RunNo: 10472								
Prep Date: 5/7/2013	Analysis Date: 5/8/2013	SeqNo: 296788	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	119	62.6	136			
Surr: BFB	1000		1000		103	80	120			

Qualifiers:

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- 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#: 1305277

10-May-13

Client: Williams Field Services
Project: Florance Y # 44A East Wall Composite

Sample ID: MB-7324	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 7324	RunNo: 10472								
Prep Date: 5/7/2013	Analysis Date: 5/8/2013	SeqNo: 296807	Units: %REC							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID: LCS-7324	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 7324	RunNo: 10472								
Prep Date: 5/7/2013	Analysis Date: 5/8/2013	SeqNo: 296808	Units: %REC							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID: 1305213-001AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BatchQC	Batch ID: 7324	RunNo: 10472								
Prep Date: 5/7/2013	Analysis Date: 5/8/2013	SeqNo: 296810	Units: %REC							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		0.9461		108	80	120			

Sample ID: 1305213-001AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BatchQC	Batch ID: 7324	RunNo: 10472								
Prep Date: 5/7/2013	Analysis Date: 5/8/2013	SeqNo: 296811	Units: %REC							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		0.9443		107	80	120	0	0	

Sample ID: MB-7324	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: R10472	RunNo: 10472								
Prep Date: 5/7/2013	Analysis Date: 5/8/2013	SeqNo: 296813	Units: mg/Kg							
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	1.0		1.000		102	80	120			

Sample ID: LCS-7324	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: R10472	RunNo: 10472								
Prep Date: 5/7/2013	Analysis Date: 5/8/2013	SeqNo: 296814	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	107	80	120			
Toluene	1.1	0.050	1.000	0	107	80	120			

Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
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- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1305277

10-May-13

Client: Williams Field Services
Project: Florance Y # 44A East Wall Composite

Sample ID: LCS-7324	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: R10472	RunNo: 10472								
Prep Date: 5/7/2013	Analysis Date: 5/8/2013	SeqNo: 296814 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	1.1	0.050	1.000	0	109	80	120			
Xylenes, Total	3.3	0.10	3.000	0	111	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Qualifiers:

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- 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
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- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Sample Log-In Check List

Client Name: WILLIAMS FIELD SERVI

Work Order Number: 1305277

RcptNo: 1

Received by/date: AG 05/08/13

Logged By: **Lindsay Mangin** 5/8/2013 9:50:00 AM *[Signature]*

Completed By: **Lindsay Mangin** 5/8/2013 10:09:26 AM *[Signature]*

Reviewed By: ID 05/08/13

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? Courier

Log In

- 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
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? Yes No
(Note discrepancies on chain of custody)
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

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

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

