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

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

Form C-144 Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or									
13926 Proposed Alternative Method Permit or Closure Plan Application									
Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method									
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request									
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.									
Operator: ConocoPhillips Company OGRID #: 217817 Address: PO BOX 4289, Farmington, NM 87499 Facility or well name: AXI APACHE K 5 API Number: 30-039-06600 OCD Permit Number: U/L or Qtr/Qtr H (SENE) Section 10 Township 26N Range 5W County: Rio Arriba Center of Proposed Design: Latitude 36.504753 N Longitude -107.341793 N NAD: 1927 1983 Surface Owner: Federal State Private Tribal Trust or Indian Allotment									
2.									
Pit: Subsection F, G or J of 19.15.17.11 NMAC									
Temporary: Drilling Workover Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D									
3.									
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume:									
4.									
Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.									
5.									
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet									

☐ Alternate. Please specify

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other									
Monthly inspections (If netting or screening is not physically feasible)									
7.									
Signs: Subsection C of 19.15.17.11 NMAC									
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers									
☐ Signed in compliance with 19.15.16.8 NMAC									
8.									
Variances and Exceptions:									
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank:									
☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.									
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.									
9.									
Siting Criteria (regarding permitting): 19.15.17.10 NMAC									
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptant material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	otable source								
General siting									
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.	☐ Yes ☐ No								
- ☐ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☐ Data obtained from nearby wells	⊠ NA								
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells									
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality									
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No								
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No								
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☐ No								
Below Grade Tanks									
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured									
from the ordinary high-water mark).	☐ Yes ⊠ No								
- Topographic map; Visual inspection (certification) of the proposed site									
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No								
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)									
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole,									
or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial	☐ Yes ☐ No								
 application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 									
Within 200 horizontal fact of a enring or a private democia fresh water well used by less than five households for democia or steel									
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								
Temporary Pit Non-low chloride drilling fluid									
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site									
/ithin 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									
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site									
Within 300 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								
Permanent Pit or Multi-Well Fluid Management Pit									
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No								
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site									
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 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 Previously Approved Design (attach copy of design) API Number: or Permit Number:									
11.									
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are uttached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC									

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC 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 ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	documents are							
Proposed Closure: 19.15.17.13 NMAC								
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Fallernative 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	luid Management Pit							
14.	2010 No. 2010 Wes							
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 C of 19.15.17.13 NMAC ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC								
15.								
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable south provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 19.15.17.10 NMAC for guidance.								
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA							
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA							
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No							
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No							
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image								
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site								
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No							
Within 300 feet of a wetland.								
US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No							
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance								

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No									
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No									
Within an unstable area.										
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	Yes No									
Within a 100-year floodplain FEMA map	☐ Yes ☐ No									
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. 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 E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot 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 H of 19.15.17.13 NMAC										
17. 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 believed.										
Name (Print): Title:										
Signature: Date:										
Signature: Date:e-mail address: Telephone:	* X ***									
e-mail address: Telephone:										
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22. Operator Closure Certification:
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Crystal Walker Title: Regulatory Coordinator
Signature: Date: 12/28/15
e-mail address:crystal.walker@cop.com Telephone: (505) 326-9837

ConocoPhillips Company San Juan Basin Below Grade Tank Closure Report

Lease Name: AXI Apache K 5 API No.: 30-039-06600

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

General Plan:

COPC shall close a below-grade tank within 60 days of cessation of operations per Subsection G.4 of 19.15.17.13
 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of
 Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five
 years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) an earlier
 date that the division requires because of imminent danger to fresh water, public health or the environment. For any
 closure, COPC will file the C144 Closure Report as required.

The below-grade tank referenced above was permitted and closed within 60 days of cessation of the below-grade tanks operation.

2. COPC shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005), JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.

All recovered liquids were disposed of at Basin Disposal (Permit #NM-01-005) and any sludge or soil required to be removed to facilitate closure was hauled to Envirotech Land Farm (Permit #NM-01-011) and JFJ Landfarm % IEI (Permit #NM-01-0010B). The liner was cleaned per Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC was disposed of at the San Juan County Regional Landfill located on CR 3100.

3. COPC will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.

The below-grade tank was disposed of in a division-approved manner.

4. If there is any on-site equipment associated with a below-grade tank, then COPC shall remove the equipment, unless the equipment is required for some other purpose.

All on-site equipment associated with the below-grade tank was removed.

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

A five point composite sample was taken of the below-grade tank using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached). Form C-141 is attached.

Components	Tests Method	Limit (mg/kg)				
Benzene	EPA SW-846 8021B or 8260B	0.2				
BTEX	EPA SW-846 8021B or 8260B	50				
TPH	EPA SW-846 418.1	100				
Chlorides	EPA 300.0	250				

6. If COPC or the division determines that a release has occurred, then COPC shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

A release was determined for the above referenced well.

7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Table I of 19.15.17.13 NMAC, then COPC shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.

The below-grade tank area passed all requirements of Paragraph (4) of Subsection E of 19.15.17.13 NMAC and was backfilled with compacted, non-waste containing, earthen material.

- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
 - i. Operator's name
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.

Notification is missing.

9. The surface owner shall be notified of COPC's closing of the below-grade tank 72 hours, but not more than one week, prior to closure as per the approved closure plan via certified mail, return receipt requested.

The closure process notification to the landowner was not found.

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

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

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

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

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

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

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

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

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

Release Notification and Corrective Action

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

						OPERA	\boxtimes	Final Repor							
Name of Co						OPERATOR									
Address 340			gton, NM			Telephone No.(505) 326-9837									
Facility Nar	ne: AXI A	pache K 5				Facility Type: Gas Well									
Surface Ow	ner TRIBA	L		Mineral O	wner 7	ΓRIBAL			API No	.30-039-06	600				
				LOCA	TIO	N OF REI	LEASE								
Unit Letter	Section	Township	Range	and the same of th	212221212222222	South Line	Feet from the	East/	West Line	County					
Н	10	26N	5W	1569	\]	North	1190		East	Rio Arrib	a				
	Latitude <u>36.504753</u> Longitude <u>-107.341793</u>														
	NATURE OF RELEASE														
Type of Relea		uced Fluids				Volume of	AND AND THE AN	nown	Volume R	THE STATE OF THE S		cu. yds			
Source of Re	lease Belo	w Grade Tar	ık			Unknown	our of Occurren	ice	1/25/2011	Hour of Disc	covery				
Was Immedia	ite Notice G		Yes	No Not Rec	quired	If YES, To	Whom?								
By Whom?						Date and H									
Was a Watero	course Reacl		res 🛛 1	10		If YES, Vo	lume Impacting	the Wat	ercourse.						
If a Watercou N/A	irse was Imp	acted, Descri	be Fully.*												
	a Affected a rade tanks	nd Cleanup A ample result	action Tak s were ab	ove regulatory sta											
results for T	PH were be	fore regulate	ry standa	was transported ards set forth in the ached for review.	he NM										
regulations al public health should their o or the enviror	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:		fal	Wa	llan		OIL CONSERVATION DIVISION									
Printed Name	: Crystal V				9	Approved by Environmental Specialist:									
Title: Regula						Approval Dat	Expiration l	on Date:							
E-mail Addre Date: (2/2) * Attach Addit	28/15	Phone: (505)) 326-983		9	Conditions of Approval: Attached									



BELOW GRADE TANK CLOSURE AND CONFIRMATION SAMPLING REPORT

LOCATION:
CONOCOPHILLIPS
AXI APACHE K #5
SECTION 10, TOWNSHIP 26 NORTH, RANGE 5 WEST
RIO ARRIBA COUNTY, NEW MEXICO

CONTRACTED BY:
CONOCOPHILLIPS
MS. KELSI HARRINGTON
3401 EAST 30TH STREET
FARMINGTON, NEW MEXICO 87401

PROJECT NUMBER 96052-1875

JANUARY 2011



July 11, 2011

Project No. 96052-1875

Ms. Kelsi Harrington ConocoPhillips 3401 East 30th Street Farmington, New Mexico 87401

Phone: (505) 599-3403

RE: BELOW GRADE TANK CLOSURE AND CONFIRMATION SAMPLING REPORT FOR THE AXI APACHE K #5 WELL SITE, RIO ARRIBA COUNTY, NEW MEXICO

Dear Ms. Harrington,

Enclosed please find the *Below Grade Tank Closure and Confirmation Sampling Report* detailing activities conducted at the Axi Apache K #5 located in Section 10, Township 26 North, Range 5 West, Rio Arriba County, New Mexico.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully submitted,

ENVIROTECH, INC.

Barian Williamson

Senior Environmental Field Technician

bwilliamson@envirotech-inc.com

Enclosures:

Spill Assessment and Closure Report

Cc:

Client File 96052

CONOCOPHILLIPS BGT CLOSURE AND CONFIRMATION SAMPLING REPORT AXI APACHE K #5

SECTION 10, TOWNSHIP 26 NORTH, RANGE 5 WEST RIO ARRIBA COUNTY, NEW MEXICO

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ConocoPhillips BGT Closure and Confirmation Sampling Report Axi Apache K #5 Project Number 96052-1875 January 2011 Page 1

INTRODUCTION

Envirotech, Inc. of Farmington, New Mexico, was contracted by ConocoPhillips to conduct below grade tank (BGT) closure and confirmation sampling activities at the Axi Apache K #5 well site located in Section 10, Township 26 North, Range 5 West, Rio Arriba County, New Mexico; see enclosed *Figure 1, Vicinity Map*. Activities included sample collection and analysis, documentation and reporting.

ACTIVITIES PERFORMED

Envirotech, Inc. personnel arrived on site January 25, 2011, to perform BGT closure activities. A five (5)-point composite sample was collected from beneath the former BGT. The sample was screened in the field for total petroleum hydrocarbons (TPH) using USEPA Method 418.1, for organic vapors using a photoionization detector (PID), and chlorides. Additionally, the sample was placed into a four (4)-ounce glass jar, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015, for benzene and BTEX using USEPA Method 8021, and for total chlorides using USEPA Method 4500. The sample returned results below the regulatory standards for benzene and BTEX and for chlorides, but above the regulatory standard for TPH, confirming a release had occurred; see enclosed *Appendix A*, *Analytical Results*.

Envirotech, Inc. personnel returned to the site January 28, 2011, to perform spill assessment activities for a condensate leak on an above ground storage tank (AST). Upon Envirotech personnel's arrival, a brief site assessment was conducted. Due to the location of the site on the Jicarilla Apache Indian Reservation, the cleanup standard was determined to be 100 ppm TPH and 100 ppm organic vapors. Eight (8) samples were collected for the spill assessment in the above ground storage tank footprint. One (1) five (5)-point composite sample was collected from the surface of the visual staining, one (1) sample was collected two (2) feet below ground surface (BGS) in the tank footprint where sandstone was encountered, one (1) sample was collected from each of the north, south, east and west sides of the tank footprint approximately 2.5 feet BGS. Two (2) samples were also collected from the southwest of the southern AST. The samples collected between the tank footprint and the final samples collected in the north, south, east, west and southwest directions were screened in five foot intervals with a PID at 2.5 feet deep. The results of the spill assessment concluded that the spill area was approximately 65 feet by 40 feet by 2.5 feet deep to remove the contaminated soil resulting from the AST condensate leak.

Prior to Envirotech's arrival on January 28, 2011, the below grade tank pit was excavated an additional one (1) foot to approximately 20 feet by 20 feet by 5 feet deep. One (1) five (5)-point composite sample was collected from the bottom of the BGT excavation, one (1) composite sample was collected from walls of the BGT excavation. The bottom composite sample returned results above the regulatory limits for TPH however the wall composite results were above the regulatory limits indicating the need for deeper excavation. The BGT area was excavated an additional two (2) feet for a total depth of seven (7) feet. One (1) bottom composite sample was collected and analyzed in the field for TPH. The sample returned results above the regulatory limits for TPH indicating the need for further excavation. The BGT pit was excavated an

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additional 6" deep for a total of 7.5 feet deep. One composite sample was collected from the bottom and one (1) composite sample was collected from the walls of the BGT excavation. The samples were screened in the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. The samples returned results above the regulatory limits for TPH and organic vapors indicating the need for further excavation. Additionally the bottom composite and the wall composite samples collected from the 7.5 foot bottom and walls of the BGT pit were placed into four (4)-ounce glass jars, capped headspace free, and transported on ice under chain of custody to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015 and for benzene and BTEX using USEPA Method 8021. The samples returned results above the regulatory standards for TPH, and below the regulatory standard for benzene and BTEX. Envirotech, Inc. recommended further excavation of the BGT pit.

Prior to the return of Envirotech, Inc. personnel on February 14, 2011, the above ground storage tank area of release was excavated to an area of approximately 80' x 50' x 4' deep and the BGT pit was excavated an additional 2 feet to an area of 20 feet by 20 feet by 9.5 feet deep. Nine (9) samples were collected from the above ground storage tank excavation and two (2) samples were collected from the BGT excavation; see enclosed *Field Notes* for sample locations. The samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. All samples returned results below the regulatory standard for organic vapors. The Section 1 East Wall and Section 3 East Wall samples returned results below the regulatory standard for TPH. In addition, the nine (9) samples that failed in the field; see enclosed *Analytical Summary*, were collected into four (4)-ounce glass jars, capped headspace free, and transported with ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015. All the samples returned results below the regulatory standard for TPH using USEPA Method 8015; see attached *Analytical Results*. Therefore, Envirotech, Inc. recommends no further action in regards to this incident.

SUMMARY AND CONCLUSIONS

Below grade tank closure and above ground tank confirmation sampling activities were performed at the Axi Apache K #5 well site located in Section 10, Township 26 North, Range 5 West, Rio Arriba County, New Mexico. The soil from the excavated area was removed to the TNT soil remediation facility. Envirotech, Inc. recommends no further action in regards to this incident.

STATEMENT OF LIMITATIONS

Envirotech, Inc. has completed below grade tank closure and confirmation sampling activities at the Axi Apache K #5 well site located in Section 10, Township 26 North, Range 5 West, Rio Arriba County, New Mexico. The work and services provided by Envirotech, Inc. were in accordance with the New Mexico Oil Conservation Division standards. All observations and conclusions provided here are based on the information and current site conditions found at the site of the incident.

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The undersigned has conducted this service at the above referenced site. This work has been conducted and reported in accordance with generally accepted professional practices in geology, engineering, environmental chemistry, and hydrogeology.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully Submitted,

ENVIROTECH, INC.

Reviewed by:

Barian Williamson

Senior Environmental Field Technician

bwilliamson@envirotech-inc.com

Greg Crabtree, PE

Environmental Manager

gcrabtree@envirotech-inc.com

FIGURES

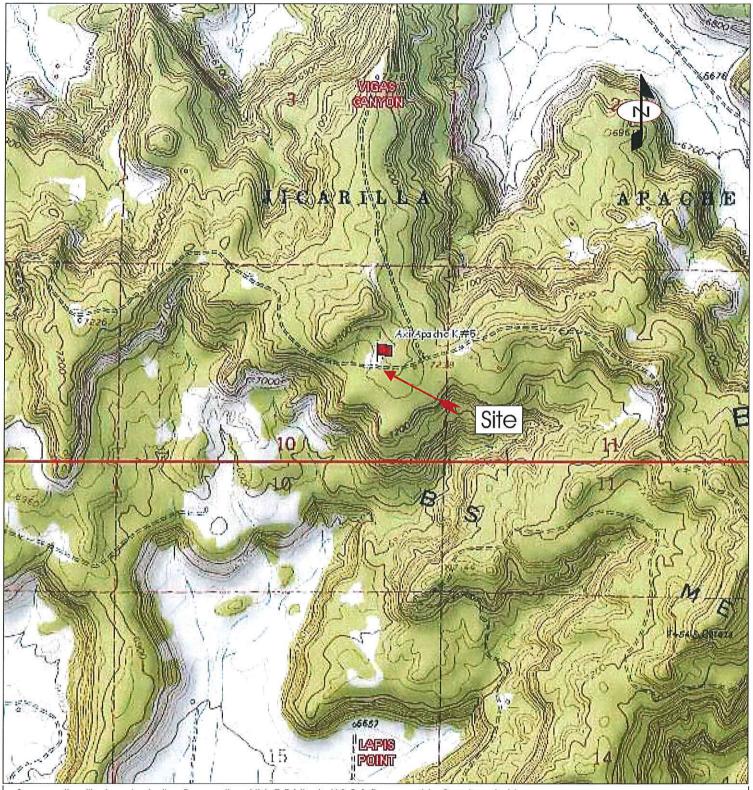
Figure 1, Vicinity Map

Figure 2, Site Map

Figure 3, AST Spill Assessment

Figure 4, BGT Excavation

Figure 5, Final Excavation Sampling



Source: Jicarilla Apache Indian Reservation, NM 7.5 Minute U.S.G.S. Topographic Quadrangle Map

Scale: 1:24,000 1" = 2000'

ConocoPhillips
Axi Apache K #5 Well Site
Section 10, Township 26N, Range 5W
Rio Arriba County, New Mexico

PROJECT No 96052-1875

Date Drawn: 3/3/11

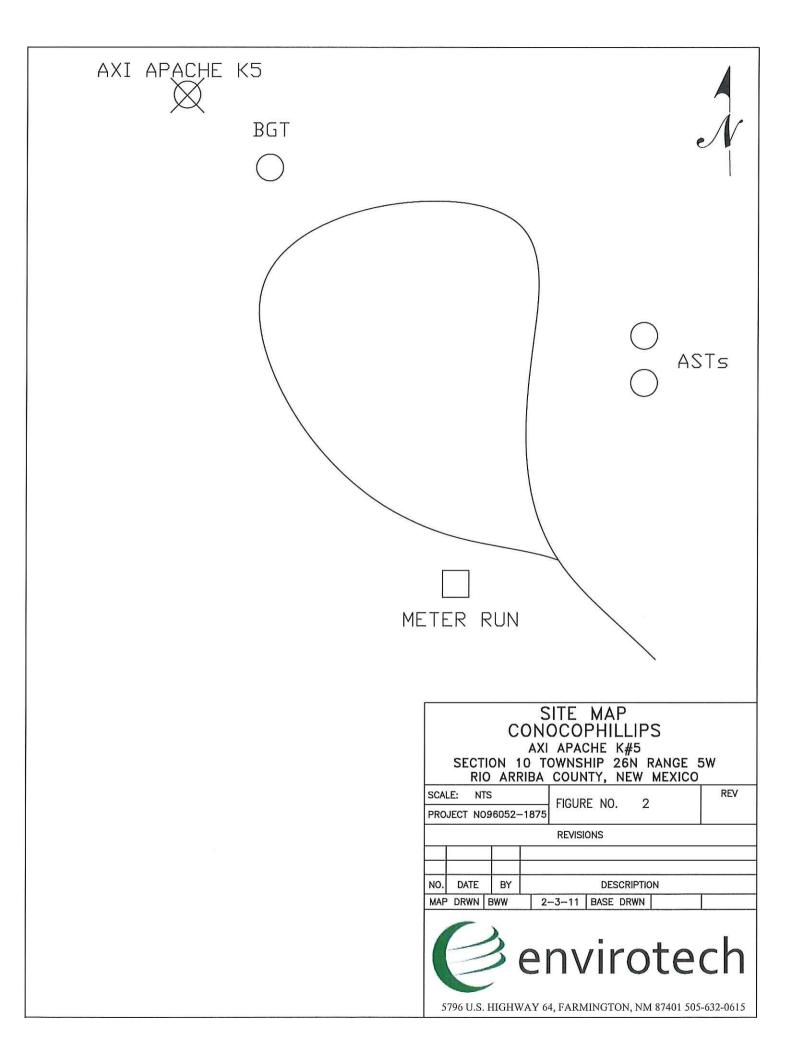


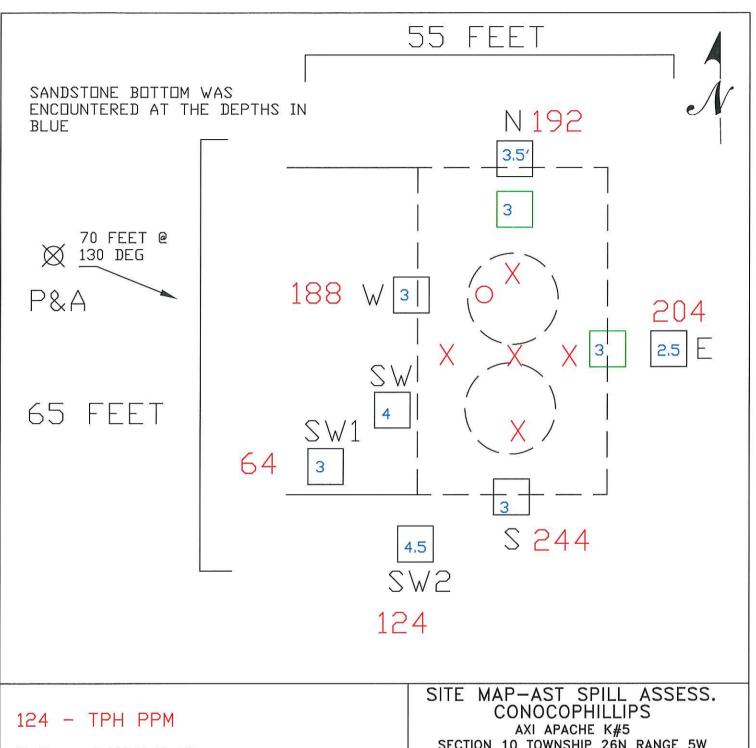
5796 U.S. HIGHWAY 64 Farmington, New Mexico 87401 505.632.0615

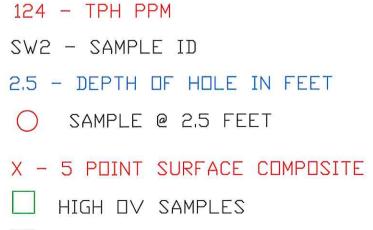
Vicinity Map

Figure 1

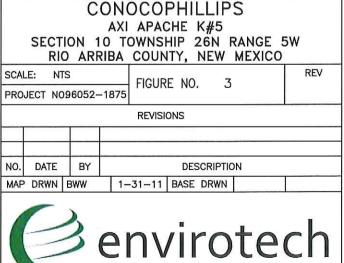
DRAWN BY: Torie Thompson PROJECT MANAGER: Greg Crabtree



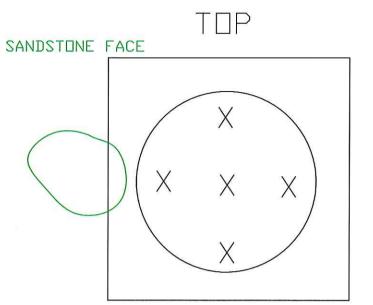




NO OV SAMPLES



5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615





5 FEET BGS 144 PPM; TPH/ 0.0 PPM DV 7.5 FEET BGS; 867 PPM DV

PROFILE

BOTTOM COMPOSITES

3052 PPM TPH; 1250 PPM DV

2728 PPM TPH; 1264 PPM DV
700 PPM TPH; 830 PPM DV
2192 PPM TPH; 1071 PPM DV

BENEATH BGT = 4 FEET BELOW SURFACE

5 FEET BELOW SURFACE

7 FEET BELOW SURFACE

7,5 FEET BELOW SURFACE

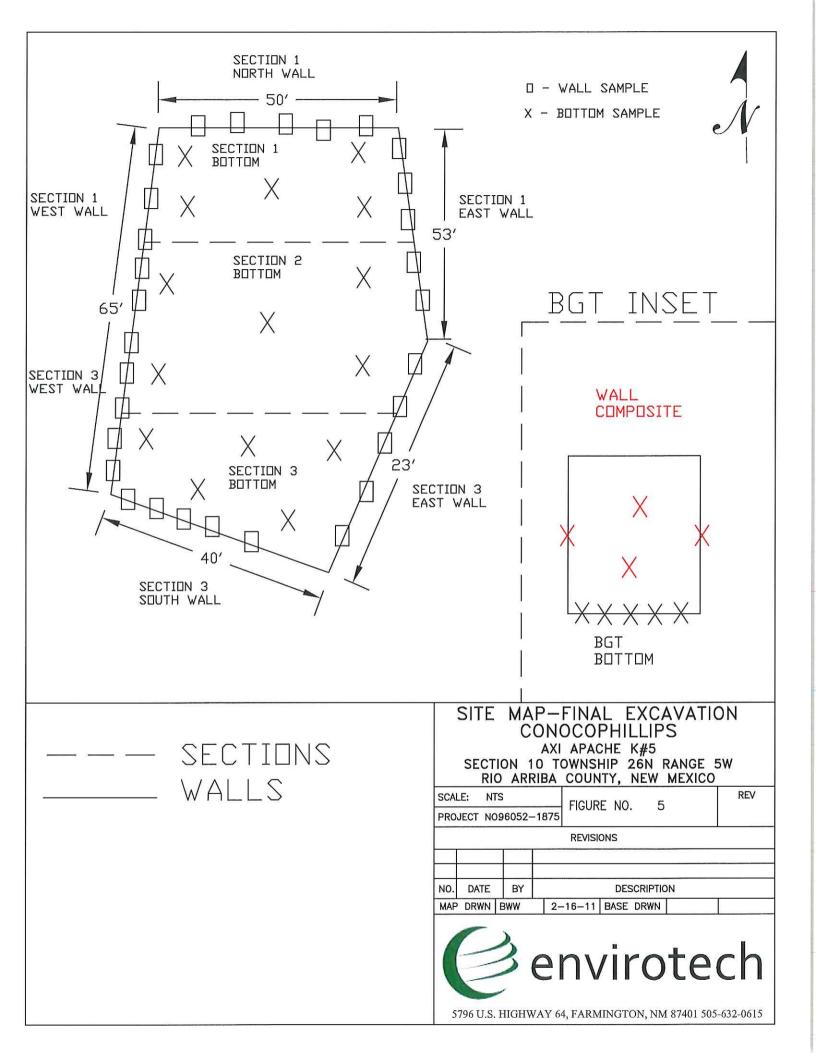
AXI APACHE K#5 ASTS METER RUN

SITE MAP-BGT EXCAVATION CONOCOPHILLIPS

AXI APACHE K#5
SECTION 10 TOWNSHIP 26N RANGE 5W
RIO ARRIBA COUNTY, NEW MEXICO



5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615



TABLES

Table 1, Summary of Analytical Results

Table 1, Summary of Analytical Results
ConocoPhillips
Axi Apache K #5
Below Grade Tank Closure and Confirmation Samplling Report
Project Number 96052-1875

Σ.								Γ											Ι										
Method 8027	BTEX	(mdd)		20	2.83	SN	SN	SN	SN	SN	SN	SN	SN	SN	NS	NS	SN	NS	NS	NS	NS	SN	NS	NS	NS	NS	NS	NS	NS
USEPA Me	Benzene	(mdd)		10	QN	SN	SN	NS	SN	SN	NS	NS	SN	NS	SN	NS	SN	SN	SN	SN	NS	SN	NS	SN	NS	SN	SN	SN	NS
Method 4500	Chlorides	(mdd)		Y N	35	SN	SN	SN	SN	SN	NS	SN	NS	SN	SN	NS	SN	SN	SN	NS	SN	SN	SN	SN	SN	NS	NS	NS	NS
USEPA Method	8015 TPH	(mdd)		100	324	SN	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	SN	13.1	45.4	16.1	ND	NS	2.6	5.5	NS	4.9	QN	ND
USEPA Method	418.1 TPH	(mdd)		100	3050	3980	100	204	244	188	192	64	124	2730	144	200	2190	SN	276	508	448	204	88	572	192	88	464	160	368
Organic	Vapors	(mdd)		100	1250	349	ND	ND	ND	ND	ND	ND	ND	1260	ND	830	1070	867	0.7	13.5	9.4	1.4	30	17.2	17.0	1.6	19.4	6.0	23.3
	Sample	Number		¥	-	-	2	3	4	5	9		8	6	10	11	12	13	1	2	3	4	2	9		8	თ	10	11
		Sample Description	New Mexico Oil Conservation	Division Standards	5 Point Composite	5 Point Composite Surface	2' Deep Under AST	East 2.5' Deep	South 2.5' Deep	West 2.5' Deep	North 2.5' Deep	Southwest 1 2.5' Deep	Southwest 2 2.5' Deep	BGT Bottom Composite	BGT Wall Composite	BGT Bottom 2' Deeper	BGT Bottom @ 7.5'	BGT Walls @ 7.5'	Section 1 Bottom	Section 2 Bottom	Section 1 West Wall	Section 1 North Wall	Section 1 East Wall	Section 3 Bottom	Section 3 South Wall	Section 3 East Wall	Section 3 West Wall	BGT Walls	BGT Bottom
		Date		AA	1/25/2011	1/28/2011	1/28/2011	1/28/2011	1/28/2011	1/28/2011	1/28/2011	1/28/2011	1/28/2011	1/28/2011	1/28/2011	1/28/2011	1/28/2011	1/28/2011	2/14/2011	2/14/2011	2/14/2011	2/14/2011	2/14/2011	2/14/2011	2/14/2011	2/14/2011	2/14/2011	2/14/2011	2/14/2011

*Values in BOLD above regulatory limits

*NS - Parameter not sampled *ND - Parameter not detected

APPENDIX A

Analytical Results



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

ConocoPhillips

1

Sample No.: Sample ID:

5 Pt. Comp

Sample Matrix:

Soil

Preservative:

Cool

Condition:

Cool and Intact

Project #:

96052-1875

Date Reported:

4/27/2011

Date Sampled:

1/25/2011

Date Analyzed:

1/25/2011

Analysis Needed:

TPH-418.1

Parameter

Concentration

Det. Limit (mg/kg)

(mg/kg)

Total Petroleum Hydrocarbons

3,050

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Axi Apache K #5

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Scott Gonzales

Printed

Haview

Robyn Jones

Printed



CONTINUOUS CALIBRATION EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Cal. Date:

25-Jan-11

Parameter	Standard Concentration mg/L	ncentration Reading						
TPH	100							
	200	212						
	500							
	1000							

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Sel To	4/27/2011
Analyst	Date
Scott Gonzales	
Print Name	
John & Midbill	4/27/2011
Review	Date
Robyn Jones	

Print Name



Field Chloride

Client:

ConocoPhillips

96052-1875

Sample No.:

1

00002-1070

Sample ID:

BGT Composite

Date Reported:

4/27/2011

Sample Matrix:

Soil

Date Sampled:

Project #:

1/25/2011 1/25/2011

Preservative:

Cool

Date Analyzed: Analysis Needed:

Chloride

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Field Chloride

40

33.0

ND = Parameter not detected at the stated detection limit.

References:

"Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992

Hach Company Quantab Titrators for Chloride

Comments:

Axi Apache K #5

Analyst

Scott Gonzales

Printed

Hewlew

Robyn Jones

Printed



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics **Total Petroleum Hydrocarbons**

Client:	ConcesDhilling	Don't was the	00050 4075
Chefft.	ConocoPhillips	Project #:	96052-1875
Sample ID:	5pt. Comp BGT	Date Reported:	01-26-11
Laboratory Number:	57085	Date Sampled:	01-25-11
Chain of Custody No:	11048	Date Received:	01-25-11
Sample Matrix:	Soil	Date Extracted:	01-25-11
Preservative:	Cool	Date Analyzed:	01-26-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	191	0.2
Diesel Range (C10 - C28)	132	0.1
Total Petroleum Hydrocarbons	324	

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Axi Apache K #5

Analyst



EPA Method 8015 Modified Nonhalogenated Volatile Organics **Total Petroleum Hydrocarbons**

Quality Assurance Report

Client:	QA/QC		Project#:		N/A
Sample ID:	01-26-11 QA/	QC	Date Reported:		01-26-11
Laboratory Number:	57084		Date Sampled:		N/A
Sample Matrix:	Methylene Chlor	ride	Date Received:		N/A
Preservative:	N/A		Date Analyzed:		01-26-11
Condition:	N/A		Analysis Reque	sted:	TPH
	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	01-26-11	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	01-26-11	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Blank Conc. (mg/L - mg/Kg)		Concentration		Detection Limit	
Gasoline Range C5 - C10		ND		0.2	
Diesel Range C10 - C28		ND		0.1	
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range	
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%	
Diesel Range C10 - C28	23.7	23.3	1.7%	0 - 30%	
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	256	103%	75 - 125%
Diesel Range C10 - C28	23.7	250	291	106%	75 - 125%

ND - Parameter not detected at the stated detection limit.

11

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

QA/QC for Samples 57084-57085, 57088-57089, 57092

Analyst



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-1875
Sample ID:	5pt. Comp BGT	Date Reported:	01-26-11
Laboratory Number:	57085	Date Sampled:	01-25-11
Chain of Custody:	11048	Date Received:	01-25-11
Sample Matrix:	Soil	Date Analyzed:	01-26-11
Preservative:	Cool	Date Extracted:	01-25-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Dilution:	10	
Concentration (ug/Kg)	Det. Limit (ug/Kg)	
ND	0.0	
320	1.0	
131	1.0	
1,010	1.2	
1,370	0.9	
	Concentration (ug/Kg) ND 320 131 1,010	Det. Concentration (ug/Kg) ND 0.9 320 1.0 131 1.0 1,010 1.2

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	105 %
	1,4-difluorobenzene	109 %
	Bromochlorobenzene	111 %

References:

Total BTEX

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

2,830

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Axi Apache K #5

Analyst

Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A		Project #:		N/A	
Sample ID:	0126BBLK QA/QC		Date Reported:		01-26	6-11
Laboratory Number:	57084		Date Sampled:		N/A	
Sample Matrix:	Soil		Date Received:		N/A	
Preservative:	N/A		Date Analyzed:		01-26	3-11
Condition:	N/A		Analysis:		BTEX	<
			Dilution:		10	
Calibration and	I-Cal RF:	C-Cal RF:	%Diff.	Blank		Detect.
Detection Limits (ug/L)		Accept. Ran	nge 0 - 15%	Conc	1	Limit
Benzene	8.4201E+003	8.4370E+003	0.2%	ND		0.1
Toluene	2.7544E+005	2.7599E+005	0.2%	ND		0.1
Ethylbenzene	3.2473E+005	3.2538E+005	0.2%	ND		0.1
p,m-Xylene	3.0645E+005	3.0707E+005	0.2%	ND		0.1
o-Xylene	7.1670E+005	7.1814E+005	0.2%	ND		0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	10.2	9.2	9.8%	0 - 30%	1.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0
p,m-Xylene	4.8	4.7	2.1%	0 - 30%	1.2
o-Xylene	3.1	3.0	3.2%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	545	109%	39 - 150
Toluene	10.2	500	513	101%	46 - 148
Ethylbenzene	ND	500	518	104%	32 - 160
p,m-Xylene	4.8	1000	1,120	112%	46 - 148
o-Xylene	3.1	500	549	109%	46 - 148

ND - Parameter not detected at the stated detection limit.

,1

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photolonization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments:

QA/QC for Samples 57084-57086, 57088-57089, 57092/

Analyst

Review



Chloride

96052-1875

01-26-11

Client: ConocoPhillips Project #:

Sample ID: 5 Pt. Comp BGT Date Reported:

Lab ID#: 57085 Date Sampled:

Sample Matrix: Soil Date Received:

 57085
 Date Sampled:
 01-25-11

 Soil
 Date Received:
 01-25-11

 Cool
 Date Analyzed:
 01-26-11

 Intact
 Chain of Custody:
 11048

Parameter

Preservative:

Condition:

Concentration (mg/Kg)

Total Chloride

35

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1997

Comments:

Axi apache K #5

Analyst

Review

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11048 RNSh

CHAIN OF CUSTODY RECORD

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Client:	v	Ax. Amcho K	occh o	不せろせる							ANAL	ANALYSIS / PARAMETERS	ARAN	AETER	က္သ	3		
Client Address:		Sampler Name:	(J)									d						
Client Phone No.:		Client No.: 9057-187	3-6	135			Method	(Metho	bortaM Meta	noinA \ r		I/H diw		(418.1) JGIPE			looO əl	le Intaci
Sample No./	Sample Sample Date Time	Sample Lab No.		Sample Matrix	No./Volume Preservative of Hgd, HG Icc	Preservative) H9T				PCI	ЧЛОТ	HA9				Samp	1000
Sot (ban AAT i	1-25-11 16:30	57085	Solid	> Sludge Aqueous	1. 40z	7	7	/						7	_		~	>
			Soil	Sludge Aqueous														
			Soil	Sludge Aqueous														
			Soil	Sludge Aqueous								1						
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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

ConocoPhillips

Sample No.:

1

Sample ID:

5 Pt. Comp. Surface

Sample Matrix:

Soil

Preservative: Condition: Cool

Cool and Intact

Project #:

96052-1875

Date Reported:

4/27/2011

Date Sampled:

1/28/2011

Date Analyzed:

1/28/2011

Analysis Needed:

TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

3,980

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Axi Apache K #5

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst/

Crystal Delgai

Printed

/..../

Robyn Jones
Printed



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

ConocoPhillips

Project #:

96052-1875

Sample No.:

2

Date Reported:

4/27/2011

Sample ID:

2' deep under AST

4/00/04

Sample Matrix:

Soil

Date Sampled:

1/28/2011 1/28/2011

Preservative:

Cool

Date Analyzed: Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

100

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Axi Apache K #5

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Review

Crystal Delgai

Printed

Robyn Jones

Printed



Client:

ConocoPhillips

3

Sample No.: Sample ID:

East 2.5' deep

Sample Matrix:

Soil

Preservative:

Cool

Condition:

Cool and Intact

Project #:

96052-1875

Date Reported:

4/27/2011

Date Sampled:

1/28/2011

Date Analyzed:

1/28/2011

Analysis Needed:

TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

204

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Axi Apache K #5

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Crystal Delgai

Printed

CVIGV

Robyn Jones



Client:

ConocoPhillips

Sample No.:

4

96052-1875

Sample ID:

4/27/2011

Sample Matrix:

South Soil

1/28/2011

Preservative:

Cool

Date Analyzed: Analysis Needed:

Project #:

Date Reported:

Date Sampled:

1/28/2011 TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

244

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Axi Apache K #5

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Crystal Delgai

Printed

Printed

Robyn Jones



Client:

ConocoPhillips

Sample No.:

5

96052-1875

Sample ID:

West

4/27/2011

Sample Matrix:

Soil

Date Sampled: Date Analyzed:

1/28/2011 1/28/2011

Preservative:

Cool

Analysis Needed:

Date Reported:

Project #:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

188

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Axi Apache K #5

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Crystal Delgai

Printed

Robyn Jones



Client:

ConocoPhillips

Project #:

96052-1875

Sample No.:

6

Date Reported:

4/27/2011

Sample ID:

North

Date Sampled:

1/28/2011

Sample Matrix:

Soil

Date Analyzed:

1/28/2011

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
_	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

192

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Axi Apache K #5

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Revie

Crystal Delgai

Printed

Robyn Jones



Client:

ConocoPhillips

Project #:

96052-1875

Sample No.:

7

Date Reported:

4/27/2011

Sample ID:

SW 1

Date Sampled:

1/28/2011

Sample Matrix:

Soil

Date Analyzed:

1/28/2011

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

	197	Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

64

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Axi Apache K #5

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Crystal Delgai

Printed

Robyn Jones



Client:

ConocoPhillips

Sample No.:

8

96052-1875

Sample ID:

SW₂

4/27/2011

Sample Matrix:

Soil

1/28/2011

Preservative:

Cool

Date Analyzed: Analysis Needed:

Project #:

Date Reported:

Date Sampled:

1/28/2011 TPH-418.1

Condition:

Cool and Intact

Parameter	(mg/kg)	(mg/kg)
	Concentration	Limit
		Det.

Total Petroleum Hydrocarbons

124

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Axi Apache K #5

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Crystal Delgai

Printed

Robyn Jones



Client:

ConocoPhillips

Project #:

96052-1875

Sample No.:

9

Date Reported: Date Sampled:

4/27/2011

Sample ID: Sample Matrix: Bottom Composite Soil 1/28/2011

Preservative:

Cool

Date Analyzed:

1/28/2011

i i coci valive.

0001

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

2,730

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Axi Apache K #5

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Review

Crystal Delgai

Printed

Robyn Jones



Client:

ConocoPhillips

Sample No.:

10

Sample ID:

Wall Composite

Sample Matrix:

Soil

Preservative: Condition:

Cool and Intact

Project #:

96052-1875

Date Reported:

4/27/2011

Date Sampled:

1/28/2011

Date Analyzed:

1/28/2011

Analysis Needed:

TPH-418.1

Par	 	

Concentration (mg/kg)

Limit (mg/kg)

Det.

Total Petroleum Hydrocarbons

144

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Axi Apache K #5

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Review

Robyn Jones

Crystal Delgai

Printed



Client:

ConocoPhillips

Sample No.:

11

Sample ID:

Bottom 2' deeper

Sample Matrix:

Soil

Preservative:

Cool

Condition:

Cool and Intact

Project #:

96052-1875

Date Reported:

4/27/2011

Date Sampled:

1/28/2011

Date Analyzed:

1/20/2011

Analysis Needed:

1/28/2011

.....

TPH-418.1

Parameter	(mg/kg)	Limit (mg/kg)
	Concentration	Det.

Total Petroleum Hydrocarbons

700

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Axi Apache K #5

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Crystal Delgai

Printed

Review

Robyn Jones



Client:

ConocoPhillips

Sample No.: Sample ID:

Bottom Composite 7.5' deep

Sample Matrix:

Soil

12

Preservative:

Cool

Condition:

Cool and Intact

Project #:

96052-1875

Date Reported:

4/27/2011

Date Sampled:

1/28/2011

Date Analyzed:

1/28/2011

Analysis Needed:

TPH-418.1

		Det.
O solicine con the F	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

2,190

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Axi Apache K #5

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Crystal Delgai

Printed

Heview

Robyn Jones



CONTINUOUS CALIBRATION EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Cal. Date:

28-Jan-11

Parameter	Standard Concentration mg/L	Concentration Reading mg/L	
TPH	100		
	200	201	
	500	,	
	1000		

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Arteryst All Lagen	4/27/2011 Date	
Crystal Delgai		
Print Name		
Review Mouline	4/27/2011	
Robyn Jones	Date	

Print Name



Client: Sample ID: Laboratory Number:	ConocoPhillips Bottom 57122	Project #: Date Reported: Date Sampled:	96052-1875 01-31-11 01-28-11
Chain of Custody No:	11079	Date Received:	01-28-11
Sample Matrix:	Soil	Date Extracted:	01-28-11
Preservative:	Cool	Date Analyzed:	01-31-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,590	0.2
Diesel Range (C10 - C28)	206	0.1
Total Petroleum Hydrocarbons	1,800	

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Axi Apache K #5/BGT

Analyst

Review

5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com



Client:	ConocoPhillips	Project #:	96052-1875
Sample ID:	Wall	Date Reported:	01-31-11
Laboratory Number:	57123	Date Sampled:	01-28-11
Chain of Custody No:	11079	Date Received:	01-28-11
Sample Matrix:	Soil	Date Extracted:	01-28-11
Preservative:	Cool	Date Analyzed:	01-31-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	241	0.2
Diesel Range (C10 - C28)	103	0.1
Total Petroleum Hydrocarbons	344	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments: Axi Apache K #5/BGT

Rev

Analyst



Quality Assurance Report

Client: Sample ID: Laboratory Number: Sample Matrix: Preservative: Condition:	QA/QC 01-31-11 QA/ 57116 Methylene Chlor N/A N/A		Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Analysis Reque		N/A 01-31-11 N/A N/A 01-31-11 TPH
	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	01-31-11	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	01-31-11	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Blank Conc. (mg/L - mg/Kg)		Concentration	in the state of the state of	Detection Limit	
Gasoline Range C5 - C10	AND THE PERSON NAMED IN COLUMN	ND		0.2	
Diesel Range C10 - C28		ND		0.1	
Duplicate Conc. (mg/Kg)	Sample	Duplicate	O/ Dus.	or and the second	
Gasoline Range C5 - C10	6,240	The state of the s	% Difference	Accept. Range	
Diesel Range C10 - C28	451	6,470	3.7%	0 - 30%	
- 1000 Hange 010 - 020	451	441	2.2%	0 - 30%	
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	6,240	250	6.970	107%	75 - 125%
Diesel Range C10 - C28	451	250	715	102%	75 - 125% 75 - 125%

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

QA/QC for Samples 57116, 57120-57123



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-1875
Sample ID:	Bottom	Date Reported:	01-31-11
Laboratory Number:	57122	Date Sampled:	01-28-11
Chain of Custody:	11079	Date Received:	01-28-11
Sample Matrix:	Soil	Date Analyzed:	01-31-11
Preservative:	Cool	Date Extracted:	01-28-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

		Det.
	Concentration	Limit
Parameter	(ug/Kg)	(ug/Kg)

Benzene	ND	0.9
Toluene	901	1.0
Ethylbenzene	1,330	1.0
p,m-Xylene	23,600	1.2
o-Xylene	5,330	0.9
Total BTEX	31,200	

ND - Parameter not detected at the stated detection limit,

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	111 %
	1,4-difluorobenzene	109 %
	Bromochlorobenzene	108 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Axi Apache K #5/BGT

Analyst



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Chain of Custody: Sample Matrix: Preservative:	ConocoPhillips Wall 57123 11079 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted:	96052-1875 01-31-11 01-28-11 01-28-11 01-31-11 01-28-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Win 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12		
Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene	ND 206 139 2,790 766	0.9 1.0 1.0 1.2 0.9
Total BTEX	3,900	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Doromotor	
	Parameter	Percent Recovery
	Fluorobenzene 1,4-difluorobenzene	94.9 % 90.4 %
	Bromochlorobenzene	101 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Axi Apache K #5/BGT



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

ND

0.1

Client: Sample ID: Laboratory Number: Sample Matrix: Preservative: Condition:	N/A 0131BBLK QA/QC 57116 Soil N/A N/A	3	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Analysis: Dilution:		N/A 01-31-11 N/A N/A 01-31-11 BTEX
Calibration and	I-Cal RF:	C-Cal RF:	%Diff.	Blank	Detect.
Detection Limits (ug/L)		Accept. Ra	nge 0 - 15%	Conc	Limit
Benzene	1.5675E+005	1.5706E+005	0.2%	ND	0.1
Toluene	1.7457E+005	1.7492E+005	0.2%	ND	0.1
Ethylbenzene	1.5361E+005	1.5392E+005	0.2%	ND	0.1
o,m-Xylene	3.5525E+005	3.5596E+005	0.2%	ND	0.1
o-Xylene	1.4429E+005	1.4458E+005	0.2%	ND	0.1

1.4458E+005

0.2%

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	2,310	2,250	2.6%	0 - 30%	0.9
Toluene	14,200	13,900	2.1%	0 - 30%	1.0
Ethylbenzene	5,280	5,380	1.9%	0 - 30%	1.0
p,m-Xylene o-Xylene	82,100	82,000	0.1%	0 - 30%	1.2
2-XAleue	15,200	15,800	3.9%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	2,310	500	2,800	100%	39 - 150
Toluene	14,200	500	14,700	100%	46 - 148
Ethylbenzene	5,280	500	5,800	100%	32 - 160
o,m-Xylene	82,100	1000	82,800	99.6%	46 - 148
o-Xylene	15,200	500	15,700	100%	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using

Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments:

QA/QC for Samples 57116, 57120-57123

Analyst

CHAIN OF CUSTODY RECORD

			TO THE PARTY OF						こうしこう			3				アノロー	\ \ \		
Client		Project Name / Location:	Location K	#5/	BEST	ĺ					ANA	ANALYSIS / PARAMETERS	PAR/	METE	ERS				
Client Address:		Sampler Name:	(C)	Las Las	- <		(910)				-								
Client Phone No.:		Client No.: 46052-1873	8/-	2			8 bortiel	Method	3 bodteN	elataM 8 		d/H 네!/			IDE				Intact
Sample No./ Identification	Sample Sample Date Time	ole Lab No.	σ =	iple rix	No./Volume of	No./Volume Preservative of Ocurtainer Hgg, HG	N) Hq1				JOI	CLP w	HAG	t) Hd.	 HOJH:			aldms	ejdwe
Bottom 1	1-28-11/4:00	57122	Solid	ge	£0/p-/	2				-			4			-			s >
Wall	1738-11 14:00	57123	Solid	Sludge Aqueous										 	-			7	
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			Soil	Sludge Aqueous					-		ļ			+-		-			T
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			Soil	Sludge Aqueous									\vdash	+	-			-	Т
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		5796 U	5796 US Highway 64	64 • Farming	• Farmington, NM 87401 • 505-632-0615 • lab@envirotech-inc.com	101 • 505-632	2-0615	• lab@e	envirote	ch-inc.c	mo:								
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ACCENT Printing • Form 98-0807



CONTINUOUS CALIBRATION EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

 ٦.	1
 12	יפזו
	Da

14-Feb-11

Parameter	Standard Concentration mg/L	Concentration Reading mg/L	
TPH	100		
	200	197	
	500		
	1000		

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Clastat Delai	4/27/2011	
Analyst	Date	
Crystal Delgai Print Name Review	4/27/2011 Date	
Robyn Jones		

Print Name



Client:

ConocPhillips

96052-1875

Sample No .:

1

Project #: Date Reported:

4/27/2011

Sample ID:

Section 1 Bottom

2/14/2011

Sample Matrix:

Soll

Date Sampled: Date Analyzed:

2/14/2011

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

276

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Axi Apache K #5

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Robyn Jones

Printed

Crystal Delgai



Client:

ConocPhillips

Sample No .: Sample ID:

Section 2 Bottom

Sample Matrix:

Soil

Preservative:

Cool

Condition:

Cool and Intact

Project #:

96052-1875

Date Reported:

4/27/2011

Date Sampled:

2/14/2011

Date Analyzed:

2/14/2011

Analysis Needed:

TPH-418.1

		Det.
V	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

508

5.0

ND = Parameter not detected at the stated detection limit,

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Axi Apache K #5

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Crystal Delgai

Printed

Robyn Jones



Client:

ConocPhillips

3

Sample No.: Sample ID:

Section 1 West Wall

Sample Matrix:

Soil

Preservative:

Cool

Condition:

Cool and Intact

Project #:

96052-1875

Date Reported:

4/27/2011

Date Sampled:

2/14/2011

Date Analyzed:

2/14/2011

Analysis Needed:

TPH-418.1

Doromata	Concentration	Det. Limit
Parameter	(mg/kg)	(mg/kg

Total Petroleum Hydrocarbons

448

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Axi Apache K #5

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Crystal Delgai

Printed

Review

Robyn Jones



Client:

ConocPhillips

4

Sample No.:

Sample ID: See

Sample Matrix: Preservative:

Condition:

Conocerninp

Section 1 North Wall

Soil

Cool

Cool and Intact

Project #:

96052-1875

Date Reported:

4/27/2011

Date Sampled:

2/14/2011

Date Analyzed: Analysis Needed: 2/14/2011 TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

204

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Axi Apache K #5

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Crystal Delgai

Printed

Robyn Jones



Client:

ConocPhillips

Project #:

96052-1875

Sample No.:

5

Date Reported: Date Sampled:

4/27/2011

Sample ID: Sample Matrix:

Section 1 East Wall Soil

2/14/2011

Preservative:

Cool

Date Analyzed: Analysis Needed:

2/14/2011 TPH-418.1

Condition:

Parameter

Cool and Intact

Det.
Concentration Limit
(mg/kg) (mg/kg)

Total Petroleum Hydrocarbons

88

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Axi Apache K #5

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Crystal Delgai

Printed

Robyn Jones



Client:

ConocPhillips

Sample No.:

6

Sample ID:

Section 3 Bottom

Sample Matrix:

Soil

Preservative:

Cool

Condition:

Cool and Intact

Project #:

96052-1875

Date Reported:

4/27/2011

Date Sampled:

2/14/2011

Date Analyzed:

2/14/2011

Analysis Needed:

TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

572

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Axi Apache K #5

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Crystal Delgai

Printed

()

Robyn Jones

Printed



Client:

ConocPhillips

Sample No .:

7

Sample ID:

Section 3 South Wall

Sample Matrix:

Soil

Preservative:

Cool

Condition:

Cool and Intact

Project #:

96052-1875

Date Reported:

4/27/2011

Date Sampled:

2/14/2011

Date Analyzed:

2/14/2011

Analysis Needed:

TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

192

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Axi Apache K #5

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Crystal Delgai

Printed

Review

Robyn Jones



Client:

ConocPhillips

R

Sample No.: Sample ID:

Section 3 East Wall

Sample Matrix:

Soil

Preservative: Condition: Cool

Cool and Intact

Project #:

96052-1875

Date Reported:

4/27/2011

Date Sampled:

2/14/2011

Date Analyzed:

2/14/2011

Analysis Needed:

TPH-418,1

Det.

Concentration
Limit
Parameter
(mg/kg)
(mg/kg)

Total Petroleum Hydrocarbons

88

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Axi Apache K #5

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Crystal Delgai

Printed

Review

Robyn Jones



Client:

ConocPhillips

Sample No.:

Sample ID:

Section 3 West Wall

Cool and Intact

Sample Matrix:

Soil

Preservative:

Cool

Condition:

Project #:

96052-1875

Date Reported:

4/27/2011

Date Sampled:

2/14/2011

Date Analyzed:

2/14/2011

Analysis Needed:

TPH-418.1

	Δ.	Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

464

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Axi Apache K #5

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Crystal Delgai

Printed

Robyn Jones



Client:	ConocoPhillips	Project #:	96052-1875
Sample ID:	Section 1 Bottom	Date Reported:	02-16-11
Laboratory Number:	57202	Date Sampled:	02-14-11
Chain of Custody No:	11137	Date Received:	02-15-11
Sample Matrix:	Soil	Date Extracted:	02-15-11
Preservative:	Cool	Date Analyzed:	02-15-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	13.1	0.1
Total Petroleum Hydrocarbons	13.1	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments: Axi Apache K #5

Analyst

Review

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com



Client: Sample ID: Laboratory Number: Chain of Custody No:	ConocoPhillips Section 1 West Wall 57203 11137	Project #: Date Reported: Date Sampled: Date Received: Date Extracted:	96052-1875 02-16-11 02-14-11 02-15-11 02-15-11
Sample Matrix: Preservative: Condition:	Soil Cool Intact	Date Extracted: Date Analyzed: Analysis Requested:	02-15-11 02-15-11 8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	4.9	0.2
Diesel Range (C10 - C28)	11.2	0.1
Total Petroleum Hydrocarbons	16.1	

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Axi Apache K #5

Analyst



Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative: Condition:	ConocoPhillips Section 2 Bottom 57204 11137 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed:	96052-1875 02-16-11 02-14-11 02-15-11 02-15-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	18.2	0.2
Diesel Range (C10 - C28)	27.2	0.1
Total Petroleum Hydrocarbons	45.4	

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Axi Apache K #5

Analyst



Client:	ConocoPhillips	Project #:	96052-1875
Sample ID:	Section 3 South Wall	Date Reported:	02-16-11
Laboratory Number:	57205	Date Sampled:	02-14-11
Chain of Custody No:	11137	Date Received:	02-15-11
Sample Matrix:	Soil	Date Extracted:	02-15-11
Preservative:	Cool	Date Analyzed:	02-15-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	5.5	0.1
Total Petroleum Hydrocarbons	5.5	

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Axi Apache K #5

Analyst



Client:	ConocoPhillips	Project #:	96052-1875
Sample ID:	BGT Bottom Composite	Date Reported:	02-16-11
Laboratory Number:	57206	Date Sampled:	02-14-11
Chain of Custody No:	11137	Date Received:	02-15-11
Sample Matrix:	Soil	Date Extracted:	02-15-11
Preservative:	Cool	Date Analyzed:	02-15-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Axi Apache K #5

Analyst



Client:	ConocoPhillips	Project#:	96052-1875
Sample ID:	Section 3 Bottom	Date Reported:	02-16-11
Laboratory Number:	57207	Date Sampled:	02-14-11
Chain of Custody No:	11137	Date Received:	02-15-11
Sample Matrix:	Soil	Date Extracted:	02-15-11
Preservative:	Cool	Date Analyzed:	02-15-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.3	0.2
Diesel Range (C10 - C28)	2.3	0.1
Total Petroleum Hydrocarbons	2.6	

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Axi Apache K #5



Client:	ConocoPhillips	Project #:	96052-1875
Sample ID:	Section 1 North Wall	Date Reported:	02-16-11
Laboratory Number:	57208	Date Sampled:	02-14-11
Chain of Custody No:	11137	Date Received:	02-15-11
Sample Matrix:	Soil	Date Extracted:	02-15-11
Preservative:	Cool	Date Analyzed:	02-15-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Axi Apache K #5

Analyst



Client:	ConocoPhillips	Project #:	96052-1875
Sample ID:	Section 3 West Wall	Date Reported:	02-16-11
Laboratory Number:	57209	Date Sampled:	02-14-11
Chain of Custody No:	11137	Date Received:	02-15-11
Sample Matrix:	Soil	Date Extracted:	02-15-11
Preservative:	Cool	Date Analyzed:	02-15-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2.0	0.2
Diesel Range (C10 - C28)	2.9	0.1
Total Petroleum Hydrocarbons	4.9	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments: Axi Apache K #5

Review

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com



Client: Sample ID:	ConocoPhillips BGT Wall Composite	Project #:	96052-1875
Laboratory Number:		Date Reported:	02-16-11
and the control of th	57210	Date Sampled:	02-14-11
Chain of Custody No:	11137	Date Received:	02-15-11
Sample Matrix:	Soil	Date Extracted:	02-15-11
Preservative:	Cool	Date Analyzed:	02-15-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Axi Apache K #5

Analyst

1.4



Quality Assurance Report

Client: Sample ID: Laboratory Number: Sample Matrix: Preservative: Condition:	QA/QC 02-15-11 QA/0 57194 Methylene Chlor N/A N/A		Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Analysis Reque		N/A 02-15-11 N/A N/A 02-15-11 TPH
	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	02-15-11	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	02-15-11	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Blank Conc. (mg/L - mg/Kg)		Concentration		Detection Limit	
Gasoline Range C5 - C10	The second second second	ND		0.2	
Diesel Range C10 - C28		ND		0.1	
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	A	
Gasoline Range C5 - C10	114	116	1.8%	Accept. Range	
Diesel Range C10 - C28	1,360	1,520	11.4%	0 - 30% 0 - 30%	
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	114	250	363	100%	75 - 125%
Diesel Range C10 - C28	1,360	250	1,680	104%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

QA/QC for Samples 57192-57196, 57202-57210

Analyst

CHAIN OF CUSTODY RECORD KIBH 11137

)										•			<i>)</i>	>	
Client:			Project Name / Location:	Location	:: ::		.				•	2			9			
Conracophillips			Ari Anache K#S	# /**							₹	ALYSI	, r F	ANALYSIS / PAHAME I ERS	ERS			
Client Address.			Sampler Name:					(91	-			-	_				-	
			DARRY WIC	LMMS	ž			108		-								
Client Phone No.:			92052 - 1970	1076				poqte	yethoo athod	Metal	noinA	∃/H 41 	San and the san	(1.8	DE		looC	
			1000						- 16		/ (iw		17	IН) 0	
Sample No./ Identification	Sample Date	Sample	Lab No.		Sample Matrix	No./Volume Preservative of Hgd, Hg (2)	Preservativ					RCI FCI P	H∀c) НЧТ	CHTO		Jamps	gumb
Section (Bollsom	"They	12:15	57202	(8) S	Sludge	1-405	×	×					-)			+
Section 1	1/6//2	92:21	57203	ه	Sludge	->		X										-
Sectron 2 Bottom	→	81:21	40213	(S) S	Sludge Aqueous	->		爻				-	ļ		1			
Section 3 Southwell	→	05:21	57205	S G	Sludge	->		文										
OGT Bettern Compos, he	シ	18:43	27266	Solid Solid	Sludge Aqueous	->		メメ				-						+
Sectoris	→	Ch:21	57207	Solid	Sludge Aqueous	->	X	X							-		,	-
Section 1 Northwell	→	18:21	57208	Solid	Sludge Aqueous	->	メ	メ										
Section 3 West will	<u>-</u> >	(3:00	57209	Solid Bilos	Sludge Aqueous	7		X										
1867 Noll Roch	رـــ	13:41	51210	Solid	Sludge Aqueous		<u>у</u>	X									7	 \
		ě		Soil	Sludge Aqueous												-	
Refinquished by: (Signature)	ature)	1			Date	Time	Receive	o o o	Received by: (Signature)	3	3	JVD	1			Date 2/15/	-	Time 7.15
Relinquished by: (Signature)	Marie /				1/2//2	71.15	Receive	od by: (Received by: (Signature)								-	
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3.0	-											Ì						

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envirotech Analytical Laboratory

APPENDIX B

Field Notes

PAGE NO: OF Z	- ENVI	RONMENT	AL SCIEN	CH INC TISTS & ENG AY 64 - 3014	INEERS	ENVIRO SPECIAI	NMENTAL LIST:
DATE STARTED: 1-25-11				MEXICO 874	01	LAT:	011
DATE FINISHED: 1-25-11			ONE: (505)			LONG:	
FIEI	D REPORT:			THE RESERVE OF THE PERSON NAMED IN	ED TETC A		
LOCATION: NAME: Ax; A	and K	WELL#:	-		-		
LEGAL ADD: UNIT:	SEC: /D	WELL#:		TEMP PIT:		NENT PIT	
QTR/FOOTAGE:	BEC. 70	CNTY:	TWP: Z	4N	RNG: 5	W	PM: Nmem
		CIVIT.	Rio Acci	DA	ST: WM		
EXCAVATION APPROX:	FT. X		FT. X		FT. DEEP	CUBIC Y	ARDAGE:
DISPOSAL FACILITY: LAND OWNER:			REMEDIA	ATION METH	IOD:		
CONSTRUCTION MATERIAL: 5	1	API:	TVALVES		BGT/PIT	VOLUME:	
OCUMENT INDUSTRIES. No							
DEPTH TO GROUNDWATER:	48	FT. 3/5	-3	FROM WEL	LHEAD		
TEMPORARY PIT - GROUN	DWATED SO 100 T	nem pene					
BENZENE ≤ 0.2 mg/kg. BTEX < 5	Uma/ka GBO % DD/ DWATEK 30-100 F	CEL DEEL) N (0015) 4 5	00 # 555			
BENZENE ≤ 0.2 mg/kg, BTEX ≤ 5	o mg/kg, OKO & DK	OFRACIO	N (8012) ≥ 2	00 mg/kg, TPH	$(418.1) \le 250$	0 mg/kg, CH	LORIDES ≤ 500 mg/kg
TEMPORARY PIT - GROUN	DWATER ≥100 FE	ET DEEP					
BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50	mg/kg, GRO & DRO	FRACTION	$\sqrt{(8015)} \le 50$	00 mg/kg, TPH ($(418.1) \le 2500$	mg/kg, CHI	LORIDES ≤ 1000 mg/kg
PERMANENT PIT OR BGT							
BENZENE ≤ 0.2 mg/kg, BTEX ≤	50 mg/kg, TPH (418.	1) ≤ 100 mg/	kg, CHLORI	DES ≤ 250 mg/l	kg		
			FIEL	D 418.1 ANAL	YSIS		
TD		LAB NO.	WEIGHT (g	mL FREON		READING	CALC. (mg/kg)
10:00		<u> </u>	<u> </u>		-	212	
10, 30	Spl. Comp	2	5	20	4	743	3052
		3					
		4					
		6					
· ·							
PERIMETER				S RESULTS		PRO	DFILE
		SAMPLE ID	READING	CALC.			
		Spt. Comp	1.4	(mg/kg)	•		_
/ vere		3/1.(4.)		-10			
Time I	//				(+ 1
[18GT]	6				,		
						21	V
0		P	ID RESUL	TS		V	·
		SAMP	LEID I	RESULTS			,
	9			(mg/kg)			
	/	5pt. Com	P	1250	1 1		1
					(· (
4							
IMP /	-						-
LAB SAMPLES	NOTES:						
SAMPLE ID ANALYSIS RESUL		118202	Site 1	ses n	ATA	124	- A well
BENZENE	- 109		- Committee of				04783°
GRO & DRO	-107.34	1123			-	107.34	18600
CHLORIDES		1		, ,	200		
	Site locate	ON JICE	ariila leni	l, closure	100 pm T	PH 100	erm ov
	WORKORDER	L #	,	WHO ORDERE	ED.		
				- OKDEKE			

Conoco Phillips		@NVIFOTECH (808) 332-0818 (808) 382-1879 6700 U.S. Mwy 04, Farmington, NM 07401				Location No: C.O.C. No:			
ELD REPORT: SPILL		VERIFICATION	J			: \ OF (ARTED: /- 28-1(IISHED: -28-1			
AD/UNIT: SEC: R/FOOTAGE:		RNG: WPM: CONTRACTOR:	CNTY: (A	ST: _W M	ENVIRON				
CAVATION APPROX: N/A SPOSAL FACILITY: ND USE: USE OF RELEASE: Tenk / LL LOCATED APPROXIMATE PTH TO GROUNDWATER: IOCD RANKING SCORE: IL AND EXCAVATION DESCR	ELY: 70 NEAREST V	LEASE:		LAND OW Conden	NER: sate				
2" Deep under Ast 10= Fast 7.5 Deep 11:	38 — 56 (1) 58 (2) 70 (3) 35 (4) 8 (5)	LAB NO. WEIGHT S S S S S S S S	(g) mL FREON	DILUTION	READING 201 995 25 51 41 47 48	CALC. ppm 3980 100 204 244 188			
SPILL PERIMET	ER A	SAMPLE FIELD HID A) 3 2 C) 0. LAB SAM SAMPLE ANALY ID	TS EADSPACE PID (ppm) (1) () () () () () () () () () () () () ()	x - Spt		PROFILE O Z' Deep (K) A / A /	t 5:55		



Method 418.1 Analysis Log Total Petroleum Hydrocarbons

	Date	1-28-11	4	Analyst BWW/1C!			_0					
	Location	Axi Apach KHS 96052-1875	2	Instrument								
	Job No.	96052-1875										
T.	Sample No.	Sample Description	Weight (g)	mL. Freon	Dilution	Reading	Calc. TPH (ppm)	OVM (ppm)				
	7	SW 1	5	70	4	16	64	0.0				
	8	SW 2 8	5	20	4	31	124	0.0				
	9	Bottom Composite Wall Composite	5	20	4	682	2728	1264				
(re	10	Wall Composite	5	20	4	36	144	0.0				
:55	11	Bottom 2' Deopy	5	70	4	175	700	830				
	17	BoHom@ 75	5	20	4	548	2192	1071				
	13	Valls@751	5	20	4			867				
×.	Infrared Spectrophotometer Calibration											
	New Freon											
	Date Standards Prepared											
	Standard Concentration (ppm)											
		100 200		500 1000		- -						
		I-Cal RF:	-	C-Cal RF:			•					
		RSD:	-	% Difference: C-Cal Difference +/- 10%								

AXI APACHE K 5



