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

1023 N FIERCII DI , FI0008, NIVI 86240

District II

1301 W Grand Ave , Artesia, NM 88210

District III

 $1000\ Rio\ Brazos\ Rd$, 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 July 21, 2008

For temporary pits, closed-loop sytems, 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
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 hability 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 ConocoPhillips Company OGRID#: 217817 Address PO Box 4289, Farmington, NM 87499
Facility or well name: SAN JUAN 32-7 UNIT 17B
API Number 30-045-35131 OCD Permit Number
U/L or Qtr/Qtr A(NE/NE) Section: 17 Township. 31N Range. 7W County: SAN JUAN Center of Proposed Design: Latitude. 36.90449 °N Longitude 107.588329 °W NAD: 1927 X 1983 Surface Owner Federal State X Private Tribal Trust or Indian Allotment
X Pit: Subsection F or G of 19 15 17 11 NMAC Temporary
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)
Below-grade tank: Subsection I of 19 15 17 11 NMAC Volume
Submittal of an exception request is required Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

Fencing: Subsection D of 19 15 17 11 NMAC (Applies to permanent pit, 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, instituted in the proof of the light, four strands of barbed wire evenly spaced between one and four feet Alternate Please specify	ution or church	<i>y</i>)
Netting: Subsection E of 19 15 17 11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)		
Signs: Subsection C of 19 15 17 11 NMAC 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers X Signed in compliance with 19 15 3 103 NMAC		
Administrative Approvals and Exceptions: Iustifications 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: X Administrative approval(s). Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration put for Pre-set) Exception(s). Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	leration of appi	roval
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	Yes	No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other 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.	Yes	No
(Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	□NA	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) - Visual inspection (certification) of the proposed site, Aerial photo; Satellite image	Yes NA	No
Within 500 horizonal 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.	Yes	No
- NM Office of the State Engineer - IWATERS database search, Visual inspection (certification) of the proposed site		_
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 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map, Visual inspection (certification) of the proposed site	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

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment ChecklistSubsection 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					
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 or Permit					
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					
Previously Approved Operating and Maintenance Plan API					
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 Proceed Classes 10 (5 17 12 NAAC					
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 X 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					
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					

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16 Waste Removal Closure For Closed-loop Systems That Utilize Above Ground S Instructions Please identify the facility or facilities for the disposal of liquids, drilli	teel Tanks or Haul-off Bins Only:(ng fluids and drill cuttings Use attac	19 15 17 13 D NMAC)			
facilities are required		,			
Disposal Facility Name Envirotech / JFJ Landfarm % IEI	Disposal Facility Permit # NN		010B		
Disposal Facility Name Basin Disposal Facility	Disposal Facility Permit # NN	· · · · · · · · · · · · · · · · · · ·			
Will any of the proposed closed-loop system operations and associated acti Yes (If yes, please provide the information No	vities occur on or in areas that wi	ill n b e used for future s	service and		
Required for impacted areas which will not be used for future service and operation Soil Backfill and Cover Design Specification - based upon the appro Re-vegetation Plan - based upon the appropriate requirements of Subs Site Reclamation Plan - based upon the appropriate requirements of S	priate requirements of Subsection of 19 15 17 13 NMAC		/AC		
17 Siting Criteria (Regarding on-site closure methods only: 19 15 17 10 NM Instructions Each siting criteria requires a demonstration of compliance in the closure plan a certain siting criteria may require administrative approval from the appropriate district office office for consideration of approval Justifications and/or demonstrations of equivalency are re-	Recommendations of acceptable source m or may be considered an exception which	must be submitted to the Sai			
Ground water is less than 50 feet below the bottom of the buried waste			Yes No		
- NM Office of the State Engineer - (WATERS database search, USGS) Data of	btained from nearby wells		N/A		
Ground water is between 50 and 100 feet below the bottom of the buried w - NM Office of the State Engineer - iWATERS database search, USGS, Data of			Yes No		
·	······································				
Ground water is more than 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS, Data of	otained from nearby wells		Yes No		
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other sign (measured from the ordinary high-water mark)	ificant watercourse or lakebed, sinkh	nole, or playa lake	Yes No		
- Topographic map, Visual inspection (certification) of the proposed site					
Within 300 feet from a permanent residence, school, hospital, institution, or church - Visual inspection (certification) of the proposed site, Aerial photo, satellite image.	• • • • • • • • • • • • • • • • • • • •	lication	∐Yes ∐No		
Within 500 horizontal feet of a private, domestic fresh water well or spring that less t purposes, or within 1000 horizontal fee of any other fresh water well or spring, in ex - NM Office of the State Engineer - iWATERS database, Visual inspection (cert	istence at the time of the initial appli		Yes No		
Within incorporated municipal boundaries or within a defined municipal fresh water variation to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality, Written approval of	·	ordinance adopted	Yes No		
Within 500 feet of a wetland	biamed from the municipality		Yes No		
- US Fish and Wildlife Wetland Identification map, Topographic map, Visual in	spection (certification) of the propos	sed site			
Within the area overlying a subsurface mine - Written confiramtion 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 &		plantal Cauchy	Yes No		
Topographic map	orai resources, OSOS, 19191 GEO	orogical Society.			
Within a 100-year floodplain - FEMA map			∐Yes ∐No		
18 On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Ea	ch of the following items must b	nee attached to the clos	ure plan. Please indicate.		
by a check mark in the box, that the documents are attached.					
Siting Criteria Compliance Demonstrations - based upon the approp	•				
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 upo			-610 16 17 11 20 44 0		
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					
X Protocols and Procedures - based upon the appropriate requirements Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements		Fof 10 15 17 12 NB 4	A.C		
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC Wasta Material Sampling Plan, based upon the appropriate requirements of Subsection F of 10 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					
State Paciliaryation Plan, based upon the appropriate requirements of Subsection C. of 10.15.17.12 NMAC					

Form C-144 Oil Conservation Division

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
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: S/25/2011 Title: OCD Permit Number:
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: 7/16/2010
22
Closure Method: Waste Excavation and Removal On-site Closure Method X Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain
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 compliane to the items below) 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
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 (if applicable) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location Latitude Longitude NAD 1927 1983
25
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is ture, 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) James Goodwin Title Regulatory Technician
Signature COOCO Date. 8911
e-mail address Jamie I goodwin@conocophillips.com Telephone 505-326-9784



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	96052-1706
Sample ID:	C/L Preset Cuttings	Date Reported:	07-08-10
Laboratory Number:	55028	Date Sampled:	07-06-10
Chain of Custody No:	6752	Date Received:	07-06-10
Sample Matrix:	Soil ,	Date Extracted:	07-07-10
Preservative:	Cool	Date Analyzed:	07-07-10
Condition:	Intact	Analysis Requested:	8015 TPH

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

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:

San Juan 32-7 #17B

Analyst



EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client	QA/QC		Project #:		N/A
Sample ID:	07-07-10 QA/	QC	Date Reported:		07-08-10
Laboratory Number	55009		Date Sampled:		N/A
Sample Matrix:	Methylene Chlo	ride	Date Received:		N/A
Preservative:	N/A		Date Analyzed.		07-07-10
Condition:	N/A		Analysis Reque	ested:	TPH
	I-Cal Date	I-Cal RF:	C-Cal RF;	% Difference	Accept. Range
Gasoline Range C5 - C10	05-07-07	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	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	
Total Petroleum Hydrocarbons		ND		0.2	
Duplicate Conc. (mg/Kg)	∞ Sample	Duplicate	% Difference	Accept. Range	
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%	
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%	
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	254	101%	75 - 125%
Diesel Range C10 - C28	ND	250	253	101%	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 55009-55010; 55024-55028; 55039; 55054-55055

Analyst



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #	96052-1706
Sample ID:	C/L Preset Cuttings	Date Reported:	07-08-10
Laboratory Number	55028	Date Sampled	07-06-10
Chain of Custody:	6752	Date Received:	07-06-10
Sample Matrix:	Soil	Date Analyzed:	07-08-10
Preservative:	Cool	Date Extracted:	07-07-10
Condition:	Not Intact-not headspace free	Analysis Requested:	BTEX

· Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)		
Benzene	ND	0.9		
Toluene	21.4	1.0		
Ethylbenzene	4.7	1.0		
p,m-Xylene	2.2	1.2		
o-Xylene	4.1	0.9		
Total BTEX	32.4			

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	100 %
	1,4-difluorobenzene	100 %
	Bromochlorobenzene	100 %

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: San Juan 32-7 #17B

Analyst



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

1					
Client.	N/A		Project #		N/A
Sample ID:	0708BBL2 QA/QC		Date Reported:		07-08-10
Laboratory Number	55024		Date Sampled:		N/A
Sample Matrix:	Soil		Date Received		N/A
Preservative. Condition:	N/A N/A		Date Analyzed:		07-08-10 BTEX
Condition.	IN/A		Analysis:		מובא
Calibration and	I-Cal RF:	C-Cal RF:	%Diff.	Blank	Detect.
Detection Limits (ug/L)		Accept. Ran	ige 0 - 15%	Conc	Limit
Benzene	6.3532E+005	6.3660E+005	0.2%	ND	0.1
Toluene	6,1136E+005	6 1258E+005	0.2%	ND	0.1
Ethylbenzene	5,5719E+005	5 5831E+005	0.2%	ND	0.1
p,m-Xylene	1 3034E+006	1 3060E+006	0.2%	ND	0.1
o-Xylene	4 7764E+005	4.7860E+005	0.2%	ND	0.1
Duplicate Cope (up/Kg)	Sample	Dualianta	%Diff.	Accept Page	Datast Limit
Duplicate Conc. (ug/Kg)	Sample	Duplicate	70UIII.	Accept Range	Detect. Limit
Benzene	5.6	7.0	25.0%	0 - 30%	0.9
Toluene	4.7	4.6	2.1%	0 - 30%	1.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0
p,m-Xylene	ND	ND	0.0%	0 - 30%	1.2
o-Xylene	ND	ND	0.0%	0 - 30%	0.9
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
		•		Ť	. •
Benzene	5.6	50.0	50.7	91.1%	39 - 150
Toluene	4.7	50.0	50.0	91.4%	46 - 148
Ethylbenzene	ND	50.0	50.6	101%	32 - 160
p,m-Xylene	ND	100	97.2	97.2%	46 - 148
o-Xylene	ND	50.0	50.2	100%	46 - 148

ND - Parameter not detected at the stated detection limit

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 55009-55010, 55024- 55026; 55028; 55054-55055; 55039

Analyst



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #	96052-1706
Sample ID:	C/L Preset Cuttings	Date Reported:	07-08-10
Laboratory Number:	55028	Date Sampled:	07-06-10
Chain of Custody No.	6752	Date Received:	07-06-10
Sample Matrix:	Soil	Date Extracted:	07-08-10
Preservative:	Cool	Date Analyzed:	07-08-10
Condition:	Intact	Analysis Needed:	TPH-418.1

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

Total Petroleum Hydrocarbons	172	19.2
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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:

San Juan 32-7 #17B



EPA METHOD 418.1 TOTAL PETROLEUM HYROCARBONS QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	QA/QC	Date Reported:	07-08-10
Laboratory Number:	07-08-TPH.QA/QC 55028	Date Sampled	N/A
Sample Matrix:	Freon-113	Date Analyzed:	07-08-10
Preservative:	N/A	Date Extracted:	07-08-10
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
	06-30-10	07-08-10	1,700	1,770	4.1%	+/- 10%

	06-30-10	07-08-10	1,700	1,770	4.1%	+/- 10%
Blank Conc. (m TPH	ıg/Kg)		Concentration ND		Detection Lim 19.2	it
Duplicate Cond TPH	c. (mg/Kg)		Sample 172	Duplicate 155	% Difference 10.0%	Accept. Range +/- 30%
Spike Conc. (m	ıg/Kg)	Sample 172	Spike Added 2,000	Spike Result 2,610	% Recovery 120%	Accept Range 80 - 120%

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: QA/QC for Samples 55028; 55024-55026; 55041-55043; 55054; 55056-55057

Analyst



Chloride

Client: ConocoPhillips Project #: 96052-1706 C/L Preset Cuttings Date Reported: 07-08-10 Sample ID: Lab ID#: 55028 Date Sampled: 07-06-10 Date Received: 07-06-10 Sample Matrix. Soil Preservative: Cool Date Analyzed: 07-08-10 Intact Condition: Chain of Custody: 6752

Parameter

Concentration (mg/Kg)

Total Chloride

50

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., 1992.

Comments: San Juan 32-7 #17B

Analyst

ConocoPhillips Company Cavitation Pit for Closed-Loop Locations

Design:

ConocoPhillips Company will use a cavitation pit plan when the surface casing will be pre-set on closed-loop locations The drill cuttings will be stockpiled on the surface

Operations and Maintenance:

The cavitation pit will be operated and maintained as follows

- 1 Only Fresh water and air will be used in the drilling of the surface casing
- 2 The Cement used will be Neat Cement with no additives
- 3 All of the fluids will be removed within 48hrs after drilling
- 4 A representative five point composite sample will be taken of the drill cuttings, after the setting of the surface casing is complete, using sampling tools and all samples will be tested per Subsection B of 19 15 17 13(B)(1)(b) In the event that the testing criteria is not met, all contents will be dug and hauled per Subparagraph (a) of Paragraph (1) of Subsection B of 19 15 17 13 i e

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	2500
GRO/DRO	EPA SW-846 8015M	500
Chlorides	EPA 300 1	500

The NMOCD will be notified via email of the test results of the cavitation surface as follows

Components	Tests Method	Limit (mg/Kg)	Results
Benzene	EPA SW-846 8021B or 8260B	02	ND
BTEX	EPA SW-846 8021B or 8260B	50	32 4
TPH	EPA SW-846 418 1	2500	172
GRO/DRO	EPA SW-846 8015M	500	ND
Chlorides	EPA 300 1	500	50

Closure Plan:

- 1 The NMOCD will be notified of the sample results and the intent to start the closure process 3-7 days prior to the drill cuttings being transported, moved, or distributed on location
- In the event the criteria are not met, all solids and liquids will be removed and disposed of at Envirotech (Permit #NM-01-0011) and/or Basin Disposal Facility (Permit #NM-01-005) and/or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B)
- 3 Testing results will be submitted with the Closure Report of the well locations Closed-Loop Permit on Form C-144

ConocoPhillips is aware that approval of this plan does not relieve ConocoPhillips of liability should operations result in pollution of surface water, ground water, or the environment. Nor does approval relieve ConocoPhillips of its responsibility to comply with any other applicable governmental authority's rules and regulations.