▲ <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240	State of New Mexico Energy Minerals and Natural Resources	Form C-14- July 21, 200
<u>District II</u> 1301 W. Grand Ave., Artesia. NM 88210	Department Oil Conservation Division 1220 South St. Francis Dr.	For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.
<u>District III</u> 1000 Rio Brazos Rd., Aztec. NM 87410 <u>District IV</u>	Santa Fe, NM 87505	For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
1220 S. St. Francis Dr., Santa Fe, NM 87505	Pit, Closed-Loop System, Below-Grad	
	sed Alternative Method Permit or Closed	
Type of action:		sure r lan Application
Type of action:	Permit of a pit, closed-loop system, below-grade t	ank, 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 permi below-grade tank, or proposed alternative method	
Instructions: Please submit one ap	plication (Form C-144) per individual pit, closed-loo	p system, below-grade tank or alternative request
	this request does not relieve the operator of liability should operations re re the operator of its responsibility to comply with any other applicable a	
1 Operator: <u>Burlington Resources Oil</u> Address: PO Box 4289, Farmingtor		OGRID#: <u>14538</u>
Facility or well name: SAN JUAN 29		
	-039-31126 OCD Permit Numb	
U/L or Qtr/Qtr: <u>F(SE/NW)</u> Section	· · · ·	7W County: <u>RIO ARRIBA</u>
Center of Proposed Design: Latitude:		107.336022 °W NAD: 1927X 1983
Surface Owner: Federal	State X Private Tribal Trust or India	n Allotment
2		OIL CONS. DIV DIST. 3
² <u>Pit:</u> Subsection F or G of 19.15.17.	11 NMAC	OIL CONS. DIV DIST. 3
² <u>Pit:</u> Subsection F or G of 19.15.17. Temporary: Drilling Work		OIL CONS. DIV DIST. 3 APR 1 6 2013
Temporary: Drilling Work		OIL CONS. DIV DIST. 3 APR 1 6 2013
Temporary: Drilling Work	over	OIL CONS. DIV DIST. 3 APR 1 6 2013 HDPE PVC Other
Temporary: Drilling Work	over	APR 1 6 2013
Temporary: Drilling Work Permanent Emergency X Ca Lined Unlined Lin String-Reinforced	over	APR 1 6 2013
Temporary: Drilling Work Permanent Emergency X Ca Lined Unlined Lin String-Reinforced Liner Seams: Welded Fac	over avitation P&A (Pre-set) AIR her type: Thickness mil LLDPE	APR 1 6 2013
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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, institute Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify	ution or church)
7 Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)	
8 Signs: Subsection C of 19.15.17.11 NMAC 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers X Signed in compliance with 19.15.3.103 NMAC	
9 Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration pit for Pre-set) Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	leration of approval.
¹⁰ <u>Siting Criteria (regarding permitting</u>) 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. (Applies to temporary, emergency, or cavitation pits and below-grade tanks)	Yes No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits)	Yes No
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 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 Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division Within an unstable area. 	Yes No Yes No Yes No
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map Within a 100-year floodplain FEMA map 	Yes No

11 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 19.15.17.10 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
12 Closed-loop Systems Permit Application Attachment Checklist:Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API 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 (I) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC 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 Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance 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 Errosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC
14 Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes. Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency 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 F 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 Steel Tanks or Haul-off Bins Only:(19.15.17.13.D NMAC)			
Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.	,		
Disposal Facility Name: Envirotech / JFJ Landfarm % IEI Disposal Facility Permit #: NM-01-0011 / NM-01-0	0010B		
Disposal Facility Name: Basin Disposal Facility Disposal Facility Permit #: NM-01-005			
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will nbe used for future Yes (If yes, please provide the information No	service and		
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19.15.17.13 N Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	IMAC		
17 <u>Siting Criteria (Regarding on-site closure methods only:</u> 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the S office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.			
Ground water is less than 50 feet below the bottom of the buried waste.	Yes No		
- NM Office of the State Engincer - iWATERS database search: USGS: Data obtained from nearby wells	□N/A		
Ground water is between 50 and 100 feet below the bottom of the buried waste	Yes No		
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	N/A		
Ground water is more than 100 feet below the bottom of the buried waste.	Yes No		
- NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells	N/A		
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).	Yes No		
- Topographic map; Visual inspection (certification) of the proposed site			
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	Yes No		
· visual inspection (certification) of the proposed site, Aerial photo, satellite image	TYes No		
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal fee 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; 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.	Yes No		
- Written confirmation or verification from the municipality: Written approval obtained from the municipality Within 500 fect of a wetland			
- US Fish and Wildlife Wetland Identification map: Topographic map; Visual inspection (certification) of the proposed site			
Within the area overlying a subsurface mine. - Written confiration or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No		
- written contraintion of vertication of map from the NM EMINED-Mining and Mineral Division			
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map			
Within a 100-year floodplain.	Yes No		
- FEMA map			
18 <u>On-Site Closure Plan Checklist:</u> (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the clo by a check mark in the box, that the documents are attached.	osure plan. Please indicate,		
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC			
Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC			
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC			
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC X 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			

X Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)

Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

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

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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): Ittle: Signature: Date:
e-mail address: Telephone:
20 OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:
21 Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 10/18/2012
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.
23
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.
Disposal Facility Name: Disposal Facility Permit Number:
Disposal Facility Name: Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and opeartions?
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)
Re-vegetation Application Rates and Seeding Technique
²⁴ <u>Closure Report Attachment Checklist:</u> 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): Jamie Goodwin Title: Regulatory Technician
Signature: <u>Aquine Capodution</u> Date: <u>4/15/13</u>
e-mail address: // jamie.l.goodwin@conocophillips.com Telephone: 505-326-9784

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Burlington Resources Oil & Gas Company, LP Cavitation Pit for Closed-Loop Locations

Design:

Burlington Resources Oil & Gas Company, LP 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

5. 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	0.2	ND
BTEX	EPA SW-846 8021B or 8260B	50	ND
TPH	EPA SW-846 418.1	2500	27.2
GRO/DRO	EPA SW-846 8015M	500	ND
Chlorides	EPA 300.1	500	8.91

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.
- 2. 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.

Burlington Resources is aware that approval of this plan does not relieve Burlington Resources 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.

Goodwin, Jamie L

From:Goodwin, Jamie LSent:Thursday, October 18, 2012 3:17 PMTo:'Powell, Brandon, EMNRD'; 'Kelly, Jonathan, EMNRD'Cc:Goodwin, Jamie LSubject:FW: San Juan 29-7 Unit #102B 10/18/12Brandon & Jonathan,

The results for the San Juan 29-7 Unit 102B are attached. Pre set closure report with be submitted.

Thank you,

Jamie Goodwin Regulatory Tech. ConocoPhillips 505-326-9784 Jamie.L.Goodwin@conocophillips.com Judge each day not by the harvest you reap but by the seeds you sow. Unknown

From: laboratory [mailto:laboratory@envirotech-inc.com] Sent: Thursday, October 18, 2012 2:40 PM To: Blais, Cara A; Goodwin, Jamie L Subject: [EXTERNAL]San Juan 29-7 Unit #102B

Below are preliminary lab results for location San Juan 29-7 Unit #102B, sample ID Air CL Preset Cuttings:

TPH (method 8015) Total Petroleum Hyd	GRO DRO rocarbons	mg/Kg ND ND ND
Tol Eth P,n o-x	nzene uene tylbenzene n-xylene ylene tal BTEX	ug/Kg ND ND ND ND ND ND
TPH (418.1) Total Petroleum Hyd	rocarbons	mg/Kg 27.2
Chloride Total Chloride		mg/Kg 8.91

Envirotech Analytical Laboratory

Phone (505) 632-0615 Fax (505) 632-1865 laboratory@envirotech-inc.com

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Report Summary

Client: ConocoPhillips Chain of Custody Number: 6299 Samples Received: 10-17-12 Job Number: 96052-1706 Sample Number(s): 63468 Project Name/Location: San Juan 29-7 Unit #102B

Date: 10-19-12 Entire Report Reviewed By: Alm 2232

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865 Ph (970) 259-0615 Fr (800) 362-1879





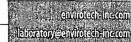
Client:	ConocoPhillips	Project #:	96052-1706
Sample ID:	Air CL Preset Cuttings	Date Reported:	10-18-12
Laboratory Number:	63468	Date Sampled:	10-17-12
Chain of Custody No:	6299	Date Received:	10-17-12
Sample Matrix:	Soil	Date Extracted:	10-17-12
Preservative:	Cool	Date Analyzed:	10-18-12
Condition:	Intact	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: San Juan 29-7 Unit #102B





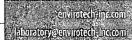
Quality Assurance Report

Client:	QA/QC		Project #:		N/A
Sample ID:	1018TCAL QA/	QC	Date Reported:		10-18-12
Laboratory Number:	63468		Date Sampled:		N/A
Sample Matrix:	Methylene Chlo	ride	Date Received:		N/A
Preservative:	N/A		Date Analyzed:		10-18-12
Condition:	N/A		Analysis Reques	ted:	TPH
	I-Cal Date	⊘ I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	10-18-12	9.9960E+02	1.0000E+03	0.04%	0 - 15%
Diesel Range C10 - C28	10-18-12	9.9960E+02	1.0000E+03	0.04%	0 - 15%
Blank Conc. (mg/L - mg/ł	(g)	Concentration	C	etection Lim	it
Gasoline Range C5 - C10		ND		0.2	
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocarbon	IS	ND			
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference_/	Accept. Rang	e
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	290	116%	75 - 125%
Diesel Range C10 - C28	ND	250	292	117%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Was SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 63466-63468 and 63470-63476





Client:	ConocoPhillips	Project #:	96052-1706
Sample ID:	Air CL Preset Cuttings	Date Reported:	10-18-12
Laboratory Number:	63468	Date Sampled:	10-17-12
Chain of Custody:	6299	Date Received:	10-17-12
Sample Matrix:	Soil	Date Analyzed:	10-18-12
Preservative:	Cool	Date Extracted:	10-17-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	50
			Det.
	Conce	entration	Limit
Parameter	(ug/l	Kg) ((ug/Kg)
Benzene		ND	10.0
Toluene		ND	10.0
Ethylbenzene		ND	10.0
p,m-Xylene		ND	10.0
o-Xylene		ND	10.0

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:		Parameter	Percent Recovery	
**************************************		Fluorobenzene	81.1 %	
		1,4-difluorobenzene	89.7 %	
		Bromochlorobenzene	94.0 %	
References:	Method 5	030B, Purge-and-Trap, Test Methods for I	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 29-7 Unit #102B





Sample ID:	N/A			oject #:	N//	
•	1018BCA	LQA/QC		ate Reported:	. +	-18-12
aboratory Number:	63468			ate Sampled:	N//	
Sample Matrix:	Soil			ate Received:	N//	
Preservative:	N/A			ate Analyzed:	-	-18-12
Condition:	N/A			nalysis: lution:	50	ΈX
Calibration and	I-Cal	RF:	Cal RF:	%Diff.	Blank	Detect
Detection Limit	s (ug/L)	Accep	t. Range 0-15%		Conc	Limit
Benzene	1.4561	E-05 1.4	1561E-05	0.000	ND	0.2
Toluene	1.1801	E-05 1.1	1801E-05	0.000	ND	0.2
Ethylbenzene	1.2328		2328E-05	0.000	ND	0.2
p,m-Xylene	9.0247	E-06 9.0	247E-06	0.000	ND	0.2
o-Xylene	1.2263	E-05 1.3	2263E-05	0.000	ND	0.2
Duplicate Conc. ((ùg/Kg)	ple D	uplicate	%Diff. A	ccept Range	Detect. Limit
Benzene		ND	ND	0.00	0 - 30%	10
Toluene		ND	ND	0.00	0 - 30%	10
Ethylbenzene		ND	ND	0.00	0 - 30%	10
p,m-Xylene		ND	ND	0.00	0 - 30%	10
o-Xylene		ND	ND	0.00	0 - 30%	10
-						
Benzene	' Kg)	iple Ame ND ND	ount Spiked S 2500 2500	Spiked Sample 2330 2330	% Recovery 93.2 93.2	Accept Range 39 - 150 46 - 148
Benzene Toluene	'Kg)	ND ND	2500 2500	2330 2330	93.2 93.2	39 - 150 46 - 148
Benzene Toluene Ethylbenzene	' Kg)	ND ND ND	2500 2500 2500	2330 2330 2340	93.2 93.2 93.6	39 - 150 46 - 148 32 - 160
Benzene Toluene Ethylbenzene p,m-Xylene	' Kg)	ND ND ND ND	2500 2500 2500 5000	2330 2330 2340 4720	93.2 93.2 93.6 94.4	39 - 150 46 - 148 32 - 160 46 - 148
Toluene Ethylbenzene	'Kg)	ND ND ND	2500 2500 2500	2330 2330 2340	93.2 93.2 93.6	39 - 150 46 - 148 32 - 160
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene ND - Parameter not	t detected at the stated de	ND ND ND ND ND	2500 2500 2500 5000 2500	2330 2330 2340 4720 2330	93.2 93.2 93.6 94.4 93.2	39 - 150 46 - 148 32 - 160 46 - 148
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene ND - Parameter not		ND ND ND ND ND	2500 2500 2500 5000 2500	2330 2330 2340 4720 2330	93.2 93.2 93.6 94.4 93.2	39 - 150 46 - 148 32 - 160 46 - 148
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene ND - Parameter not	t detected at the stated de	ND ND ND ND ND tection limit. tion represen	2500 2500 2500 5000 2500 t a dilution pr ods for Evaluatin	2330 2330 2340 4720 2330 oportional to sar	93.2 93.2 93.6 94.4 93.2 nple dilution. /-846, USEPA,	39 - 150 46 - 148 32 - 160 46 - 148

Comments: QA/QC for Samples 63468 and 63470-63476

EPA METHOD 418.1 Senvirotech Total Petroleum Hydrocarbons Analytical Laboratory

	<u></u>		Det.
Condition:	Intact	Analysis Needed:	TPH-418.1
Preservative:	Cool	Date Analyzed:	10-18-12
Sample Matrix:	Soil	Date Extracted:	10-18-12
Chain of Custody No:	6299	Date Received:	10-17-12
Laboratory Number:	63468	Date Sampled:	10-17-12
Sample ID:	Air CL Preset Cuttings	Date Reported:	10-18-12
Client:	ConocoPhillips	Project #:	96052-1706

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

Total Petroleum Hydrocarbons	27.2	13.0
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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 29-7 Unit #102B





QA/QC	Project #:	N/A
QA/QC	Date Reported:	10-18-12
10-18-TPH.QA/QC 634	68 Date Sampled:	N/A
Freon-113	Date Analyzed:	10-18-12
N/A	Date Extracted:	10-18-12
N/A	Analysis Needed:	TPH
C-Cal Date	IRF: C-Cal RF: % D	ifference. Accept. Range
ు సంఘటనలో సోషింటించికోండి ప్రభుత్వలో ఇత్రోగోళికిలో సంతర్పత్ రాగ్ సింగ్ సింగ్ రాగ్లు చె	s de service de la construction de	6.0% +/- 10%
ം ക്രിപാത്ത പത്തിപ്പെടുന്നു. പ്രതിക്ഷം അക്സ്പിപ്പാക്ക	医硫酸磷酸乙酸 化结核乙烯酰氨 计标准定义 人名法贝尔 图 计分析分析	ection Limit 13.0
and the start start through the transformation of the start start start start start starts and the start start	化学学和保护的 建生物学学学学学会 化化合理试验	ifference: Accept: Range 9.6% +/- 30%
Sample	Added Spike Result % I	Recovery Accept Range
27.2 2.	000 1,750 8	36.3% 80 - 120%
	QA/QC 10-18-TPH.QA/QC 634 Freon-113 N/A N/A C-Cal Date 10-18-12 Conce NI Sample Sample Spike	QA/QC Date Reported: 10-18-TPH.QA/QC 63468 Date Sampled: Freon-113 Date Analyzed: N/A Date Extracted: N/A Analysis Needed: C-Cal Date I-Cal RF C-Cal RF % D 10-18-12 1,623 1,720 Concentration Dete ND Sample Spike Added Spike Result % F

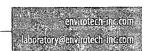
ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: QA/QC for Samples 63468 and 63477-63480

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Client:	ConocoPhillips	Project #:	96052-1706
Sample ID:	Air CL Preset Cuttings	Date Reported:	10-18-12
Lab ID#:	63468	Date Sampled:	10-17-12
Sample Matrix:	Soil	Date Received:	10-17-12
Preservative:	Cool	Date Analyzed:	10-18-12
Condition:	Intact	Chain of Custody:	6299

Parameter

Concentration (mg/Kg)

Total Chloride

8.91

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 29-7 Unit #102B

5796 US Highway 64, Farmington, NM 87401

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Ph (505) 632-0615 Fx (505) 632-1865 Ph (970) 259-0615 Fr (800) 362-1879

