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 Fc, NM 87505

### State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

☐ Final Report

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

☐ Initial Report

# Release Notification and Corrective Action OPERATOR

		Contact	Kelsi G	urvitz					
owned subsidiary of ConocoPhillips Company									
Address 3401 E. 30 <sup>th</sup> St., Farmington, NM 87402									
Facility Name San Juan 30-6 Unit #92M			Facility Type				PI # 300-39-30686		
Surface Own	ner <b>Fe</b> c	leral		Mineral Own	ner <b>Federa</b>	<u> </u>	Leas	se No.	NM-02151-B
					ION OF REL				
Unit Letter	Section	Township			North/South Line	Feet from the	East/West L	ine (	County
G	33	T30N	R07W	2313'	North	1500'	East		Rio Arriba
Latitude <u>36.77006°N</u> Longitude <u>107.57243°W</u>					VD GCT 26'09 1L CONS. DIV.				
	······································				RE OF RELE				J.ST. 5
		luced Wate	er & Drilling	g Materials		lease – Unknow	/n		ne Recovered – Unknown
Source of Rel Tear in Te		Pit Liner			Unknown	r of Occurrence			and Hour of Discovery  /09 – 9:00 a.m.
Was Immedia					If YES, To W	hom?		1	
			es 🗌 No [	Not Require	Brandon Po	owell- verbal	with follow	up er	mail
By Whom?		Kelsi Gurv	itz			r = 10/7/09 1:3			
Was a Watero	course Read				If YES, Volun	ne Impacting the	Watercourse.		
If a Watercou									
						<del></del>			
					bber 6, 2009, a emove drilling				in the drilling pit
									trucks were used to
									ent to the tear was
									Due to the results
confirming	g a releas	se, COPC o	deferred to	the NMOCD	Guidelines for	Remediation	of Leaks, S	Spills,	and Releases. All
					ts for clean clo				
									nt to NMOCD rules and
									es which may endanger
									the operator of liability
or the enviror	perations r	ddition NMC	adequatery inv	restigate and rem	ort does not relieve	on that pose a three	at to ground w	vater, su for comm	orface water, human health
				ce of a C 141 top	or does not reneve	the operator of h	esponsionity i	or comp	phanee with any other
federal, state, or local laws and/or regulations.				OIL CONSERVATION DIVISION			IVISION		
Signature:			_				<del></del>		
Printed Name: Kelsi Gurvitz			Approved by I	District Superviso	r Bolo	Eli	For:CP		
Title:	Env	/ironmenta	l Consulta	nt	Approval Date			ion Dat	
					Conditions of		·		
E-mail Addre	ss: <b>keisi.</b> i	m.gurvitz@	conocoph	iiiips.com	Conditions of	Approvat:		1	Attached 🔲
Date: 1	0/13/09		Phone: 5	05-599-3403					

\* Attach Additional Sheets If Necessary

Incident #18mD0931452745



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

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Background	Date Reported:	10-13-09
Laboratory Number:	52036	Date Sampled:	10-08-09
Chain of Custody No:	7901	Date Received:	10-08-09
Sample Matrix:	Soil	Date Extracted:	10-12-09
Preservative:	Cool	Date Analyzed:	10-12-09
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	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 30-6 #92M

Analyst

Review

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



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

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Pit	Date Reported:	10-13-09
Laboratory Number:	52037	Date Sampled:	10-08-09
Chain of Custody No:	7901	Date Received:	10-08-09
Sample Matrix:	Soil	Date Extracted:	10-12-09
Preservative:	Cool	Date Analyzed:	10-12-09
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	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 30-6 #92M



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

		•	
Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Liner	Date Reported:	10-13-09
Laboratory Number:	52038	Date Sampled:	10-08-09
Chain of Custody No:	7901	Date Received:	10-08-09
Sample Matrix:	Soil	Date Extracted:	10-12-09
Preservative:	Cool	Date Analyzed:	10-12-09
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	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 30-6 #92M

Analyst

Mostun Welder



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

### **Quality Assurance Report**

0 - 30%

Client:	QA/QC		Project #:		N/A
Sample ID:	10-12-09 QA/Q	¢	Date Reported:		10-13-09
Laboratory Number:	52036		Date Sampled:		N/A
Sample Matrix:	Methylene Chlori	de	Date Received:		N/A
Preservative:	N/A		Date Analyzed:		10-12-09
Condition:	N/A		Analysis Request	ted:	TPH
A CONTRACT OF THE CONTRACT OF					
E Sin State of the	LI LICEUDate	I-Cel RF;	CCapiRFI	% Difference:	Accopt Hange
Gasoline Range C5 - C10	05-07-07	9.3794E+002	9.3832E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	9.6450E+002	9.6488E+002	0.04%	0 - 15%
Blank Cone (Inclu-malks)		Concentration		Daledión Limil	-
Gasoline Range C5 - C10		ND		0.2	1.
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocarbons		ND		0.2	
Duplicate Conc. (mg/kg)	Sample	Duplicate ! .	s/S/Difference	Vccaple Range	
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%	•

Splic Cons (mg/Kg)	Samile	¿Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	258	103%	75 - 125%
Diesel Range C10 - C28	ND	250	259	104%	75 - 125%

ND

0.0%

ND - Parameter not detected at the stated detection limit.

References:

Diesel Range C10 - C28

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

SW-846, USEPA, December 1996.

ND

Comments:

QA/QC for Samples 52020 - 52024 and 52036 - 52038.

Analyst



Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Background	Date Reported:	10-13-09
Laboratory Number:	52036	Date Sampled:	10-08-09
Chain of Custody:	7901	Date Received:	10-08-09
Sample Matrix:	Soil	Date Analyzed:	10-12-09
Preservative:	Cool	Date Extracted:	10-09-09
Condition:	Intact	Analysis Requested:	BTEX

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

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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 30-6 #92M

Analyst



Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Pit	Date Reported:	10-13-09
Laboratory Number:	52037	Date Sampled:	10-08-09
Chain of Custody:	7901	Date Received:	10-08-09
Sample Matrix:	Soil	Date Analyzed:	10-12-09
Preservative:	Cool	Date Extracted:	10-09-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Dannana	20.4	
Benzene	32.1	0.9
Toluene	66.1	1.0
Ethylbenzene	6.5	1.0
p,m-Xylene	23.6	1.2
o-Xylene	19.1	0.9
Total BTEX	147	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
,	Bromochlorobenzene	97.0 %

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 30-6 #92M

Analyst



Client:	ConocoPhillips	Project#:	96052-0026
Sample ID:	Liner	Date Reported:	10-13-09
Laboratory Number:	52038	Date Sampled:	10-08-09
Chain of Custody:	7901	Date Received:	10-08-09
Sample Matrix:	Soil	Date Analyzed:	10-12-09
Preservative:	Cool	Date Extracted:	10-09-09
Condition:	Intact	Analysis Requested:	BTEX

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

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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 30-6 #92M

Analyst

Austre Weetles
Review



Client:	N/A		Project #:		N/A
Sample ID:	10-12-BT QA/QC		Date Reported:		10-13-09
Laboratory Number:	52036		Date Sampled:		N/A
Sample Matrix:	Soil		Date Received:		N/A
Preservative:	N/A		Date Analyzed:		10-12-09
Condition:	N/A	•	Analysis:		BTEX
Calibration and Datoction Limits (us) ii)	To play the second	C≣CALRE ⊮Accept: Ra	MD#7 mg80-35%	Glanke Cono	Detects
Benzene	1.0166E+006	1.0187E+006	0.2%	ND	0.1
Toluene	9.3742E+005	9.3930E+005	0.2%	ND	0.1
Ethylbenzene	8.4052E+005	8.4220E+005	0.2%	ND	0.1
p,m-Xylene	2.1244E+006	2.1286E+006	0.2%	ND	0.1
o-Xylene	7.9370E+005	7.9529E+005	0.2%	ND	0.1

Ouplicate Cone ((ug/(t))	Sample D	iplicate= 🔉	_%Diff	.Accept Range	: 1Detect-Limit ~
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	ND	ND	0.0%	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. (uc/(sp)	Somple Ame	unt Spiked ASpik	ed Semple	Wikecovery/	Phil/(ccapi Range)
Benzene	ND	50.0	49.5	99.0%	39 - 150
Toluene	ND	50.0	47.6	95.2%	46 - 148
Ethylbenzene	ND	50.0	49.7	99.4%	32 - 160
p,m-Xylene	ND	100	103	102.7%	46 - 148
o-Xylene	ND	50.0	49.8	99.6%	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 52020 - 52024, 52036 - 52038, and 52041.

Analyst

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

### EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Background	Date Reported:	10-13-09
Laboratory Number:	52036	Date Sampled:	10-08-09
Chain of Custody No:	·7901	Date Received:	10-08-09
Sample Matrix:	Soil	Date Extracted:	10-09-09
Preservative:	Cool	Date Analyzed:	10-09-09
Condition:	Intact	Analysis Needed:	TPH-418.1

		Det.	
	Concentration	Limit	-
Parameter	(mg/kg)	(mg/kg)	1

**Total Petroleum Hydrocarbons** 

16.2

10.4

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 30-6 #92M.

Analyst

Musther Mclother Review

### **EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS**

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Pit	Date Reported:	10-13-09
Laboratory Number:	52037	Date Sampled:	10-08-09
Chain of Custody No:	7901	Date Received:	10-08-09
Sample Matrix:	Soil	Date Extracted:	10-09-09
Preservative:	Cool	Date Analyzed:	10-09-09
Condition:	Intact	Analysis Needed:	TPH-418.1

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

**Total Petroleum Hydrocarbons** 

433

10.4

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 30-6 #92M.



#### EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	96052-0026
Sample ID:	Liner	Date Reported:	10-13-09
Laboratory Number:	52038	Date Sampled:	10-08-09
Chain of Custody No:	7901	Date Received:	10-08-09
Sample Matrix:	Soil	Date Extracted:	10-09-09
Preservative:	Cool	Date Analyzed:	10-09-09
Condition:	Intact	Analysis Needed:	TPH-418.1

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

**Total Petroleum Hydrocarbons** 

98.2

10.4

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 30-6 #92M.

Analyst



### **EPA METHOD 418.1** TOTAL PETROLEUM **HYROCARBONS QUALITY ASSURANCE REPORT**

Client:

QA/QC

Project #:

N/A

Sample ID:

**QA/QC** 

Date Reported:

10-09-09

Laboratory Number:

10-09-TPH.QA/QC 51995

Date Sampled:

N/A

Sample Matrix:

Freon-113

Date Analyzed:

10-09-09

Preservative:

N/A

Date Extracted:

10-09-09

Condition:

N/A

Analysis Needed:

TPH

Calibration

I-Cal Date

C-Cal Date

I-Cal RF:

C-Cal RF:

% Difference

Accept. Range

08-25-09

10-09-09

1,440

1,400

2.8%

+/- 10%

**TPH** 

Concentration 5 ND

Detection Limit. 10.4

Duplicate Conc. (mg/Kg)

**TPH** 

Sample 11.6

**Duplicate** 13.9

% Difference 19.8%

Accept. Range +/- 30%

TPH

11.6

Spike Added Spike Result. % Recovery Accept Range: 2,000

2,080

103%

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 51995, 52031, 52032 and 52036 - 52041.

Christen Weller Review



#### Chloride

Client: ConocoPhillips Project #: 96052-0026 Background Date Reported: Sample ID: 10-13-09 52036 Lab ID#: Date Sampled: 10-08-09 Sample Matrix: Soil Date Received: 10-08-09 Preservative: Cool Date Analyzed: 10-13-09 Intact Condition: Chain of Custody: 7901

**Parameter** 

Concentration (mg/Kg)

**Total Chloride** 

8

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 30-6 #92M.



#### Chloride

Client: Project #: ConocoPhillips 96052-0026 Sample ID: Pit Date Reported: 10-13-09 Lab ID#: 52037 Date Sampled: 10-08-09 Sample Matrix: Soil Date Received: 10-08-09 Preservative: Cool Date Analyzed: 10-13-09 Condition: Intact. Chain of Custody: 7901

**Parameter** 

Concentration (mg/Kg)

**Total Chloride** 

18

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 30-6 #92M.

Analyst



#### Chloride

Client: ConocoPhillips Project #: 96052-0026 Liner Date Reported: 10-13-09 Sample ID: 52038 Date Sampled: 10-08-09 Lab ID#: Date Received: 10-08-09 Sample Matrix: Soil Date Analyzed: 10-13-09 Preservative: Cool Condition: Intact Chain of Custody: 7901

Parameter Concentration (mg/Kg)

**Total Chloride** 

40

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 30-6 #92M.

Analyst

# **CHAIN OF CUSTODY RECORD**

7901

Client:	Project Name / Location:  San Juan 368 - 492m							ANALYSIS / PARAMETERS															
Client Address:		9	Sampler Name:	~ <u>~</u>	<b>3</b> - (	<u>.0 1</u>		<u>( M )</u>	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	<u>s</u>											
Client Phone No.:			Client No.:		1	•			pod	thoc thoc	DOC.	etal	io		¥		<del>-</del>	ا س ا				<u>8</u>	tact
599-3	465		96057-	002					Meth	(Me	Met	RCRA 8 Metals	Cation / Anion		TCLP with H/P		TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Sample No./	Sample	Sample	Lab No.	Sa	ample	No./Volume of			I E	Ĕ	ő	¥	lg	_	宁	Į	Ĭ	일		-	1	dw	<u>d</u>
Identification	Date	Time	Las No.	N	Matrix	or Containers	HgCl <sub>2</sub>	HCI	F	<u>B</u>	\( \begin{array}{c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	품	්	RCI	12	PAH.	<u> </u>	ರ				Sa	Sa
Backround	Bodies	1130	52036	Soil Solid	Sludge Aqueous	1-403			X	X							×	X				$\gamma$	/
Pit_	Booten	1145	57037	Soil Solid	Sludge Aqueous	1.403			×	X							×	Х				X	
Backround Pit Liner	Soct On	1215	57038	Solid	Sludge Aqueous	1.403			×	又							X	ム				X	V
				Soil Solid	Sludge Aqueous	ت ا																	
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102503	731	7A11	)		3	en\		ir C	_	_							•			l			

5796 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • lab@envirotech-inc.com