

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

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	ConocoPhillips Company	Contact	Gwen R. Frost
Address	3401 E. 30 th St., Farmington, NM 87402	Telephone No.	505-326-9866
Facility Name	Martin 3 No. 1	Facility Type	Gas Well
		API #	30-045-08791
Surface Owner	Private	Mineral Owner	Federal
		Lease No.	Fee 1350-01

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	3	T29N	R11W	1611'	North	790'	West	San Juan

Latitude 36.7570° N Longitude 107.98489° W

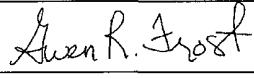
NATURE OF RELEASE

Type of Release - Unknown - pre-existing	Volume of Release - Unknown	Volume Recovered -
Source of Release: Unknown	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 11-21-08
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? OCD - Brandon Powell via email	RCVD JAN 8 '09 OIL CON. DIV.
By Whom? Gwen Frost	Date and Hour - 1/06/08 - 4:00 p.m.	DIST. 3
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		

Describe Cause of Problem and Remedial Action Taken.* **COPC discovered a pre-existing historic contamination at the Martin 3 No. 1 during construction activities to prepare a twin pad for the Martin #101 on November 21, 2008. Envirotech completed potholes and collected samples on the Martin 3 No. 1 location. Sandstone was encountered at approximately 10 - 12 feet in the north and graded to 3- 4 feet due S - SE. Individual samples & one composite was collected down-gradient from the Martin 3 No. 1. Depth to ground water is documented in the *Subsurface & Groundwater Investigation* completed for Basin Disposal, Inc., Bloomfield, NM by John Shomaker & Associates, Inc., dated September 2008, with regional groundwater table greater than 100 feet below ground surface (bgs) and an average 127 bgs in bedrock wells (ranking 0); wellhead protection area is greater than 1,000 feet (ranking 0), and distance to nearest surface water body, Bloomfield Canyon, is approximately 2500 feet to the East (ranking 0). The overall ranking of this site according to NM OCD guidelines is a 0.**

Describe Area Affected and Cleanup Action Taken.* **Soil sampling conducted on November 26, 2008, was analyzed for TPH by USEPA Method 8015, and BTEX by USEPA Method 8021. Analytical laboratory results indicate TPH concentration was below the 5000 ppm closure standard at 3.3 ppm, 69.6 ppm, and a composite sample at 1,520 ppm; benzene was below the 10 ppm standard ranging from 0.0029 ppm to 0.268 ppm, and total BTEX was below the 50 ppm standard with the highest BTEX total at 23.6 ppm. Analytical results are below the NM OCD guidelines for ranking criteria of 0. COPC has recommended that the impacted soil be left in place in order to continue passive natural attenuation based on the analytical results provided to COPC from field activities. COPC has contacted the landowner.**

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: 	OIL CONSERVATION DIVISION	
Printed Name: Gwen R. Frost	Approved by District Supervisor:  For: Charlie Perrin	
Title: Environmental Engineer	Approval Date: 1-8-09	Expiration Date:
E-mail Address: gwendolynne.frost@conocophillips.com	Conditions of Approval:	Attached ☐
Date: 1/06/08	Phone: 505-326-9549	

Incident # **nknd0928155952**



ConocoPhillips
San Juan Business Unit
P.O. Box 4289
Farmington, NM 87499-4289

January 7, 2009

Mr. Brandon Powell
EMNRD OCD
District 3
1000 Rio Brazos Road
Aztec, NM 87410

Dear Mr. Powell:

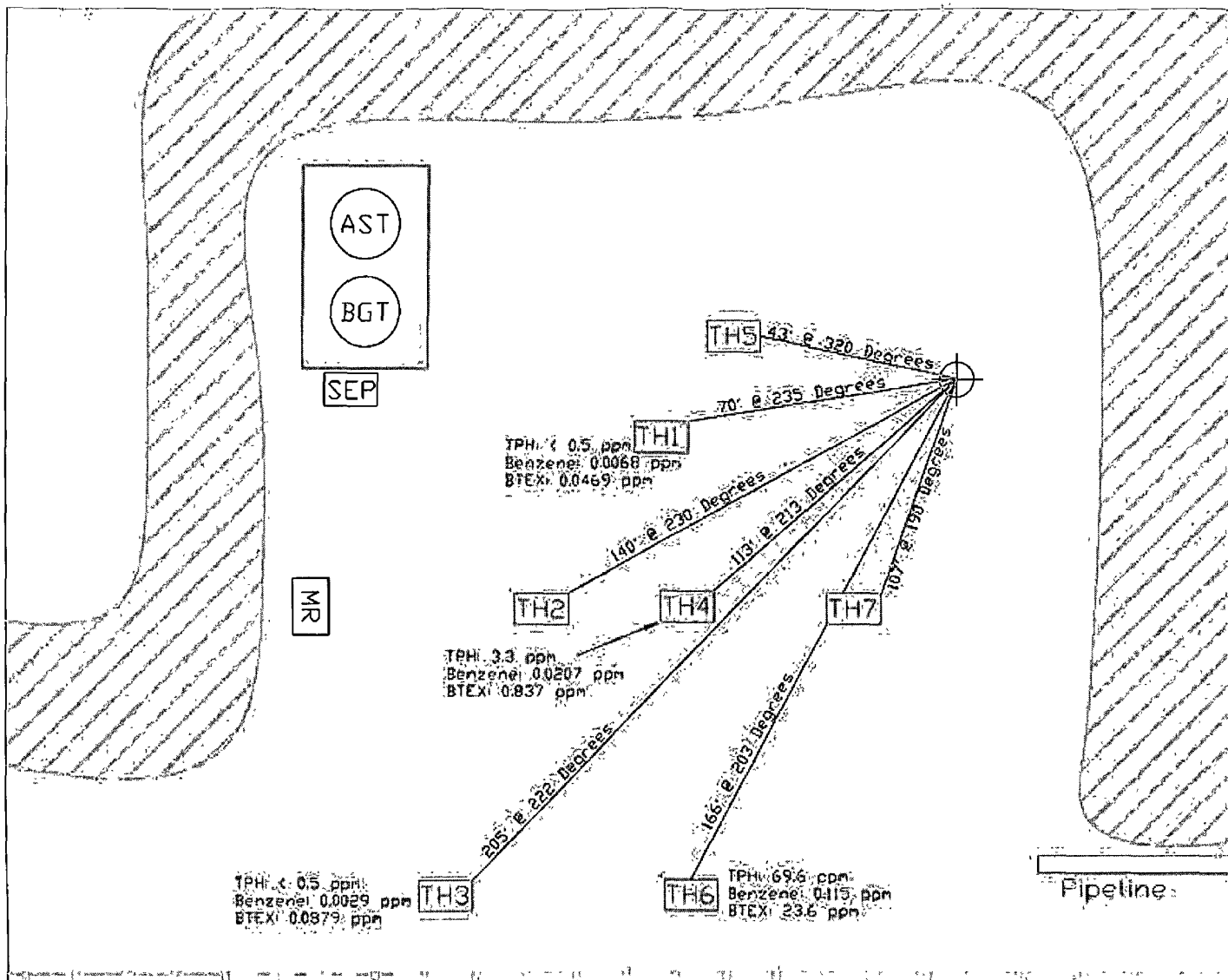
Please see the enclosed analytical laboratory results from the Site Investigation on the Martin 3 No. 1 location.

Please feel free to contact me with any further questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Gwen Frost".

Gwen Frost
Staff Environmental Engineer
ConocoPhillips



Legend

- TH1** Contamination @ 10' BGS
- TH2** No Contamination @ 12' BGS
- TH3** Contamination @ 11' BGS - Sandstone
- TH4** Contamination @ 10' BGS
- TH5** No Contamination @ 10' BGS-Sandstone
- TH6** Contamination @ 10' BGS-Sandstone @ 11'
- TH7** Slight Odor @ 11.5' BGS



Well Head



Berm

SITE MAP CONOCOPHILLIPS

MARTIN 3 #1

SEC 3 TWP 29N RGE 11W
SAN JUAN COUNTY, NEW MEXICO

SCALE: NTS

FIGURE NO. 2

REV

PROJECT NO96052-1390

REVISIONS

NO.	DATE	BY	DESCRIPTION
MAP DRWN	JPM	1/7/09	BASE DRWN

NO. DATE BY DESCRIPTION

ENVIRONMENTAL SCIENTISTS & ENGINEERS
ENVIROTECH

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87410 505-632-0615

Client:	ConocoPhillips	Project #:	96052-1390
Sample ID:	TH#1 @ 10'	Date Reported:	12-05-08
Laboratory Number:	48336	Date Sampled:	11-26-08
Chain of Custody:	5833	Date Received:	11-26-08
Sample Matrix:	Soil	Date Analyzed:	12-05-08
Preservative:	Cool	Date Extracted:	12-04-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	6.8	0.9
Toluene	10.1	1.0
Ethylbenzene	5.7	1.0
p,m-Xylene	16.3	1.2
o-Xylene	8.0	0.9
Total BTEX	46.9	

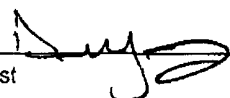
ND - Parameter not detected at the stated detection limit.

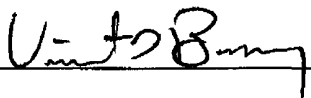
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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: Martin 3 #1


Analyst


Review



envirotech

Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-1390
Sample ID:	TH#3 @ 11'	Date Reported:	12-05-08
Laboratory Number:	48337	Date Sampled:	11-26-08
Chain of Custody:	5833	Date Received:	11-26-08
Sample Matrix:	Soil	Date Analyzed:	12-05-08
Preservative:	Cool	Date Extracted:	12-04-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	2.9	0.9
Toluene	15.0	1.0
Ethylbenzene	4.9	1.0
p,m-Xylene	50.3	1.2
o-Xylene	14.8	0.9
Total BTEX	87.9	

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: Martin 3 #1

Analyst

Review



envirotech

Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-1390
Sample ID:	TH#4 @ 10'	Date Reported:	12-05-08
Laboratory Number:	48338	Date Sampled:	11-26-08
Chain of Custody:	5833	Date Received:	11-26-08
Sample Matrix:	Soil	Date Analyzed:	12-05-08
Preservative:	Cool	Date Extracted:	12-04-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	20.7	0.9
Toluene	204	1.0
Ethylbenzene	52.9	1.0
p,m-Xylene	414	1.2
o-Xylene	146	0.9
Total BTEX	837	

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: Martin 3 #1

Analyst

Review



envirotech

Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-1390
Sample ID:	TH#6 @ 10-11'	Date Reported:	12-05-08
Laboratory Number:	48339	Date Sampled:	11-26-08
Chain of Custody:	5833	Date Received:	11-26-08
Sample Matrix:	Soil	Date Analyzed:	12-05-08
Preservative:	Cool	Date Extracted:	12-04-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	115	0.9
Toluene	3,750	1.0
Ethylbenzene	1,670	1.0
p,m-Xylene	16,780	1.2
o-Xylene	1,260	0.9
Total BTEX	23,600	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96.0 %
	1,4-difluorobenzene	96.0 %
	Bromochlorobenzene	96.0 %

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: Martin 3 #1

Analyst

Review



envirotech

Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	12-05-BT QA/QC	Date Reported:	12-08-08
Laboratory Number:	48336	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-05-08
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	1-Cal RF	2-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	7.6770E+005	7.6924E+005	0.2%	ND	0.1
Toluene	7.3602E+005	7.3749E+005	0.2%	ND	0.1
Ethylbenzene	8.0500E+005	8.0661E+005	0.2%	ND	0.1
p,m-Xylene	2.0967E+006	2.1009E+006	0.2%	ND	0.1
o-Xylene	9.4231E+005	9.4420E+005	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	6.8	6.7	1.5%	0 - 30%	0.9
Toluene	10.1	9.9	2.0%	0 - 30%	1.0
Ethylbenzene	5.7	5.5	3.5%	0 - 30%	1.0
p,m-Xylene	16.3	15.9	2.5%	0 - 30%	1.2
o-Xylene	8.0	7.7	3.8%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	6.8	50.0	54.8	96.5%	39 - 150
Toluene	10.1	50.0	58.8	97.8%	46 - 148
Ethylbenzene	5.7	50.0	53.7	96.4%	32 - 160
p,m-Xylene	16.3	100	111	95.6%	46 - 148
o-Xylene	8.0	50.0	60.0	103%	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 48336 - 48339, 483341, 48346, 48347, and 48358 - 48360.

Analyst

Review



envirotech

Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	96052-1390
Sample ID:	TH#1 @ 10'	Date Reported:	12-08-08
Laboratory Number:	48336	Date Sampled:	11-26-08
Chain of Custody No:	5833	Date Received:	11-26-08
Sample Matrix:	Soil	Date Extracted:	12-04-08
Preservative:	Cool	Date Analyzed:	12-05-08
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: **Martin 3 #1.**

Analyst

Review



envirotech

Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

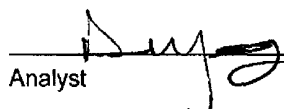
Client:	ConocoPhillips	Project #:	96052-1390
Sample ID:	TH#3 @ 11'	Date Reported:	12-08-08
Laboratory Number:	48337	Date Sampled:	11-26-08
Chain of Custody No:	5833	Date Received:	11-26-08
Sample Matrix:	Soil	Date Extracted:	12-04-08
Preservative:	Cool	Date Analyzed:	12-05-08
Condition:	Intact	Analysis Requested:	8015 TPH

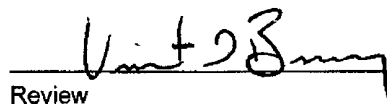
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

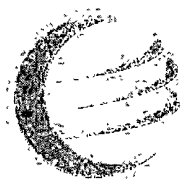
ND - Parameter not detected at the stated detection limit.

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

Comments: **Martin 3 #1.**


Analyst


Review



envirotech

Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

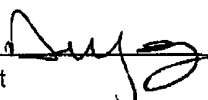
Client:	ConocoPhillips	Project #:	96052-1390
Sample ID:	TH#4 @ 10'	Date Reported:	12-08-08
Laboratory Number:	48338	Date Sampled:	11-26-08
Chain of Custody No:	5833	Date Received:	11-26-08
Sample Matrix:	Soil	Date Extracted:	12-04-08
Preservative:	Cool	Date Analyzed:	12-05-08
Condition:	Intact	Analysis Requested:	8015 TPH

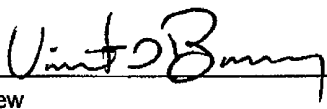
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	3.3	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	3.3	0.2

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: **Martin 3 #1.**

Analyst 

Review 



envirotech

Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	96052-1390
Sample ID:	TH#6 @ 10-11'	Date Reported:	12-08-08
Laboratory Number:	48339	Date Sampled:	11-26-08
Chain of Custody No:	5833	Date Received:	11-26-08
Sample Matrix:	Soil	Date Extracted:	12-04-08
Preservative:	Cool	Date Analyzed:	12-05-08
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	65.3	0.2
Diesel Range (C10 - C28)	4.3	0.1
Total Petroleum Hydrocarbons	69.6	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: **Martin 3 #1.**

Analyst

Review



envirotech

Analytical Laboratory

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	12-05-08 QA/QC	Date Reported:	12-08-08
Laboratory Number:	48336	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-05-08
Condition:	N/A	Analysis Requested:	TPH

	Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	9.9218E+002	9.9258E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0040E+003	1.0044E+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	246	98.4%	75 - 125%
Diesel Range C10 - C28	ND	250	248	99.2%	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 48336 - 48339, 48358 - 48360, and 48386.

Analyst

Review

CHAIN OF CUSTODY RECORD

5833

Client: ConocoPhillips			Project Name / Location: Martin 3 #1			ANALYSIS / PARAMETERS														
Client Address:			Sampler Name: G. Crabtree			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Client Phone No.:			Client No.: 96052-1390																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative														
				Soil Solid	Sludge Aqueous															
TH #1 @ 10'	11/26	0900	48336	Soil Solid	Sludge Aqueous	1-4oz													✓	✓
TH #3 @ 11'		0920	48337	Soil Solid	Sludge Aqueous														✓	✓
TH #4 @ 10'		1000	48338	Soil Solid	Sludge Aqueous														✓	✓
TH #6 @ 10-11'		1035	48339	Soil Solid	Sludge Aqueous														✓	✓
				Soil Solid	Sludge Aqueous															
				Soil Solid	Sludge Aqueous															
				Soil Solid	Sludge Aqueous															
				Soil Solid	Sludge Aqueous															
				Soil Solid	Sludge Aqueous															
				Soil Solid	Sludge Aqueous															
Relinquished by: (Signature) 						Date 11/26/08	Time 1400		Received by: (Signature) 						Date 11/26/08	Time 1400				
Relinquished by: (Signature)									Received by: (Signature)											
Relinquished by: (Signature)									Received by: (Signature)											

ENVIROTECH INC.

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505-632-0615



EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	96052-1390
Sample ID:	5 pt Comp	Date Reported:	12-18-08
Laboratory Number:	48491	Date Sampled:	12-12-08
Chain of Custody No:	5918	Date Received:	12-12-08
Sample Matrix:	Soil	Date Extracted:	12-16-08
Preservative:	Cool	Date Analyzed:	12-17-08
Condition:	Intact	Analysis Requested:	8015 TPH

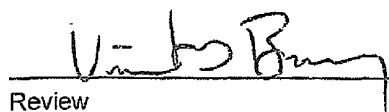
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,020	0.2
Diesel Range (C10 - C28)	503	0.1
Total Petroleum Hydrocarbons	1,520	0.2

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: Martin 101 Trench


Analyst


Review



EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	12-17-08 QA/QC	Date Reported:	12-18-08
Laboratory Number:	48473	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-17-08
Condition:	N/A	Analysis Requested:	TPH

	Cal Date	Lab Ref	C-Cal Ref	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	9.9422E+002	9.9462E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	9.9524E+002	9.9564E+002	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	246	98.4%	75 - 125%
Diesel Range C10 - C28	ND	250	240	96.0%	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 48473 - 48474, 48466 - 48468, 47480, 48481, 48483, 48491, and 48509.

Analyst

Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-1390
Sample ID:	5pt Comp	Date Reported:	12-18-08
Laboratory Number:	48491	Date Sampled:	12-12-08
Chain of Custody:	5918	Date Received:	12-12-08
Sample Matrix:	Soil	Date Analyzed:	12-17-08
Preservative:	Cool	Date Extracted:	12-16-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	268	0.9
Toluene	356	1.0
Ethylbenzene	374	1.0
p,m-Xylene	6,750	1.2
o-Xylene	1,680	0.9
Total BTEX	9,430	

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: Martin 101 Trench

Analyst

Review

Client:	N/A	Project #:	N/A
Sample ID:	12-17-BT QA/QC	Date Reported:	12-18-08
Laboratory Number:	48473	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-17-08
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal/RF	C-Cal/RF	%Diff	Blank Conc	Detect Limit
		Accept. Range 0 - 15%			
Benzene	1.5744E+005	1.5775E+005	0.2%	ND	0.1
Toluene	1.7985E+005	1.8021E+005	0.2%	ND	0.1
Ethylbenzene	1.7142E+005	1.7177E+005	0.2%	ND	0.1
p,m-Xylene	4.1382E+005	4.1465E+005	0.2%	ND	0.1
o-Xylene	1.6147E+005	1.6179E+005	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	1.5	1.4	6.7%	0 - 30%	0.9
Toluene	3.6	3.9	8.3%	0 - 30%	1.0
Ethylbenzene	1.3	1.2	8.5%	0 - 30%	1.0
p,m-Xylene	7.5	6.9	8.0%	0 - 30%	1.2
o-Xylene	3.7	3.9	5.4%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	1.5	50.0	49.5	96.1%	39 - 150
Toluene	3.6	50.0	52.3	97.6%	46 - 148
Ethylbenzene	1.3	50.0	49.3	96.1%	32 - 160
p,m-Xylene	7.5	100	102	95.3%	46 - 148
o-Xylene	3.7	50.0	56.1	104%	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 48473, 48474, 48476 - 48478, 48480 - 48483, and 48491.

Analyst

Review

CHAIN OF CUSTODY RECORD

3918

Client: <u>Conoco</u>			Project Name / Location: <u>Martin 101 trench</u>			ANALYSIS / PARAMETERS													
Client Address:			Sampler Name: <u>Scott Gonzales</u>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.:			Client No.: <u>96052-1390</u>																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative													
						HgCl ₂	HCl	Na ₂ S											
<u>Spt. Comp</u>	<u>12-12-08</u>	<u>13:45</u>	<u>48491</u>	<u>Soil</u> Solid Sludge Aqueous	<u>1-402</u>													☒	☒
				Soil Solid Sludge Aqueous															
				Soil Solid Sludge Aqueous															
				Soil Solid Sludge Aqueous															
				Soil Solid Sludge Aqueous															
				Soil Solid Sludge Aqueous															
				Soil Solid Sludge Aqueous															
				Soil Solid Sludge Aqueous															
				Soil Solid Sludge Aqueous															
				Soil Solid Sludge Aqueous															
Relinquished by: (Signature) <u>[Signature]</u>					Date	Time	Received by: (Signature) <u>[Signature]</u>					Date	Time						
					<u>12-12-08</u>	<u>13:50</u>						<u>12/12/08</u>	<u>13:50</u>						
Relinquished by: (Signature)							Received by: (Signature)												
Relinquished by: (Signature)							Received by: (Signature)												

ENVIROTECH INC.

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505-632-0615