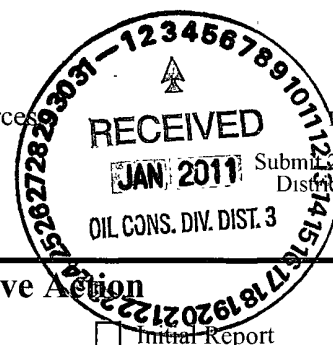


District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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	Kelsi Harrington
Address	3401 E. 30 <sup>th</sup> St., Farmington, NM 87402	Telephone No.	505-599-3403
Facility Name	Hamner 9	Facility Type	Gas Well API#3004523421
Surface Owner	Federal	Mineral Owner	Federal
		Lease No.	SF-080245

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	20	29N	09W	1020'	North	1090'	East	San Juan

Latitude 36.714988° N Longitude -107.7955° W

NATURE OF RELEASE

Type of Release – <b>Condensate</b>	Volume of Release – <b>0.5 BBL</b>	Volume Recovered – <b>0 BBL</b>
Source of Release: <b>Discharge Line</b>	Date and Hour of Occurrence <b>Unknown</b>	Date and Hour of Discovery <b>12/1/2010 10:00 am</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Sherrie Landon (BLM) – verbal Brandon Powell (NMOCD) – verbal notification given to COPC by NMOCD</b>	
By Whom? <b>Kelsi Harrington</b>	Date and Hour – <b>12/1/10</b>	
Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>0.25 BBL</b>	

If a Watercourse was Impacted, Describe Fully.\*

On December 1, 2010, Brandon Powell with the NMOCD notified ConocoPhillips of an approximately 0.5 BBL release from an out of service line drip discharge line on the Hamner #9. The fluid traveled from the point of release into an eroded area which then entered into an unnamed wash and traveled approximately 120'. Soil removal began on December 3, 2010 to remove the impacted soil located in the wash. Confirmation sampling occurred in the wash and analytical results were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases. Chlorides were also sampled and ranged from 5-20 ppm; therefore no further action was required.

Describe Cause of Problem and Remedial Action Taken.\* As stated above, an approximately 0.5 BBL release from an out of service line drip discharge line was discovered by the NMOCD on December 1, 2010.

Describe Area Affected and Cleanup Action Taken.\* On December 6, 2010, the impacted soil from the eroded path was removed. Confirmation sampling occurred in the eroded path and analytical results were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases; therefore no further action was required. Excavation proceeded on the well pad in the area of the release and the line drip was removed. Confirmation sampling occurred and analytical results were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases; therefore no further action is needed.

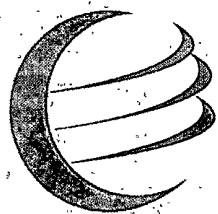
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: <i>Kelsi Harrington</i>	OIL CONSERVATION DIVISION	
Printed Name: <b>Kelsi Harrington</b>	Approved by District Supervisor: <i>Jonathan D. Kelly</i>	
Title: <b>Environmental Consultant</b>	Approval Date: <i>1/11/2012</i>	Expiration Date:
E-mail Address: <b>kelsi.g.harrington@conocophillips.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>12/31/10</b>	Phone: <b>505-599-3403</b>	

\* Attach Additional Sheets If Necessary

nJK1201152785

44



**envirotech**

## **CONFIRMATION SAMPLING REPORT**

**LOCATED AT:**

**CONOCOPHILLIPS  
HAMNER #9 WELL SITE  
SECTION 20, TOWNSHIP 29N, RANGE 9W  
SAN JUAN COUNTY, NEW MEXICO**

**PREPARED FOR:**

**CONOCOPHILLIPS  
MS. KELSI HARRINGTON  
3401 EAST 30<sup>TH</sup> STREET  
FARMINGTON, NEW MEXICO 87401**

**PROJECT NO. 96052-1836  
DECEMBER 2010**

**CONOCOPHILLIPS**  
**CONFIRMATION SAMPLING REPORT**  
**LOCATED AT:**  
**HAMNER #9 WELL SITE**  
**SECTION 20, TOWNSHIP 29N, RANGE 9W**  
**SAN JUAN COUNTY, NEW MEXICO**

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<b>SUMMARY AND CONCLUSIONS.....</b>	<b>2</b>
<b>STATEMENT OF LIMITATIONS.....</b>	<b>2</b>

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                 Figure 2, Site Map

Tables:        Table 1, Summary of Analytical Results

Appendices:   Appendix A, Analytical Results

## **INTRODUCTION**

Envirotech, Inc. of Farmington, New Mexico, was contracted by ConocoPhillips to provide confirmation sampling activities from a release of condensate due to a leaking pipeline at the Hamner #9 well site located in Section 20, Township 29 North, Range 9 West, San Juan County, New Mexico; see **Figure 1, Vicinity Map**. Confirmation sampling activities included sample collection and analysis, documentation and reporting.

## **ACTIVITIES PERFORMED**

On December 3, 2010, Envirotech personnel were on site to perform confirmation sampling for a release of condensate from a pipeline leak. Upon arrival, a brief site assessment was conducted, and the regulatory standards for the site were determined to be 100 parts per million (ppm) total petroleum hydrocarbons (TPH) and 100 ppm organic vapors due to horizontal distance to surface water being less than 200 feet from the well site, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases.

Excavation of the contaminated soil had been conducted prior to Envirotech personnel's arrival. Excavation dimensions for Section 1 measured 30 feet by two (2) feet by 1.5 feet deep, Section 2 measured 37 feet by two (2) feet by 1.5 feet deep and Section 3 measured 30 feet by two (2) feet by one (1) foot deep. Five (5) composite samples were collected from the excavated area of the release. One (1) sample was collected from Section 1, one (1) sample was collected from Section 2, two (2) samples were collected from Section 3, and one (1) sample was collected from Section 4; see **Figure 2, Site Map**. All samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID). All of the samples returned results above the regulatory standard for TPH and below the regulatory limits for organic vapors. Additionally, one (1) composite sample from each section was collected into four (4) ounce glass jars, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015 and for total chlorides using USEPA Method 4500. All samples returned results below the regulatory standards for TPH and below 250 ppm for chlorides; see **Table 1, Summary of Analytical Results** and **Appendix A, Analytical Results**.

On December 6, 2010, Envirotech personnel returned to the site to continue confirmation sampling activities following further excavation of contaminated soil. Four (4) composite samples were collected from the area of the release. One (1) sample was collected from Section 5, one (1) sample was collected from Section 6, one (1) sample was collected from the bottom of Section 7, and one (1) composite sample was collected from the four (4) walls of Section 7; see **Figure 2, Site Map**. All samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID). All of the samples returned results above the regulatory standard for TPH with the exception of the sample collected from Section 6. All samples returned results above the regulatory standard for organic vapors with the exception of the samples collected from Section 5 and Section 6. The sample collected from Section 5 and the sample collected from Section 6 were collected into four (4) ounce glass jars, capped headspace free, and transported on ice, under chain of custody, to Envirotech's

Analytical Laboratory to be analyzed for TPH using USEPA Method 8015. Both samples returned results below the regulatory standard for TPH; see **Table 1, Summary of Analytical Results** and **Appendix A, Analytical Results**.

On December 15, 2010, Envirotech personnel were on site to continue confirmation sampling activities following further excavation. One (1) sample was collected from the bottom of Section 7 and analyzed in the field for TPH using USEPA Method 8015 and for organic vapors using a PID. The sample returned results below the regulatory standards for TPH and organic vapors.

On December 16, 2010, Envirotech personnel returned to the site to continue confirmation sampling activities following further excavation of contaminated soil. One (1) sample was collected from each of the north, south and east walls of section 7 and analyzed in the field for TPH using USEPA Method 8015 and for organic vapors using a PID. All samples returned results below the regulatory standards for this site. The west wall of Section 7 was sampled and cleared as part of line drip closure activities that occurred on December 15, 2010, with results of 92 ppm TPH and non-detect for organic vapors.

All contaminated soil was transported to IEI's NMOCD permitted soil remediation facility.

#### **SUMMARY AND CONCLUSIONS**

Confirmation sampling activities were completed for a release of condensate due to a leaking pipeline at the Hamner #9 well site located in Section 20, Township 29 North, Range 9 West, San Juan County, New Mexico. All contaminated soil was transported to IEI's NMOCD permitted soil remediation facility. Envirotech, Inc. recommends that no further action is required in regards to this incident.

#### **STATEMENT OF LIMITATIONS**

Envirotech has completed confirmation sampling activities at the Hamner #9 well site located in Section 20, Township 29 North, Range 9 West, San Juan County, New Mexico. The work and services provided by Envirotech were in accordance with the New Mexico Oil Conservation Division standards. All observations and conclusions provided here are based on the information and current site conditions found at the site of the incident.

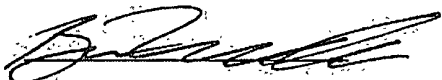
The undersigned has conducted this service at the above referenced site. This work has been conducted and reported in accordance with generally accepted professional practices in geology, engineering, environmental chemistry, and hydrogeology.

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

Respectfully submitted,

**ENVIROTECH, INC.**

Reviewed by:



Barian Williamson  
Senior Environmental Field Technician  
[bwilliamson@envirotech-inc.com](mailto:bwilliamson@envirotech-inc.com)



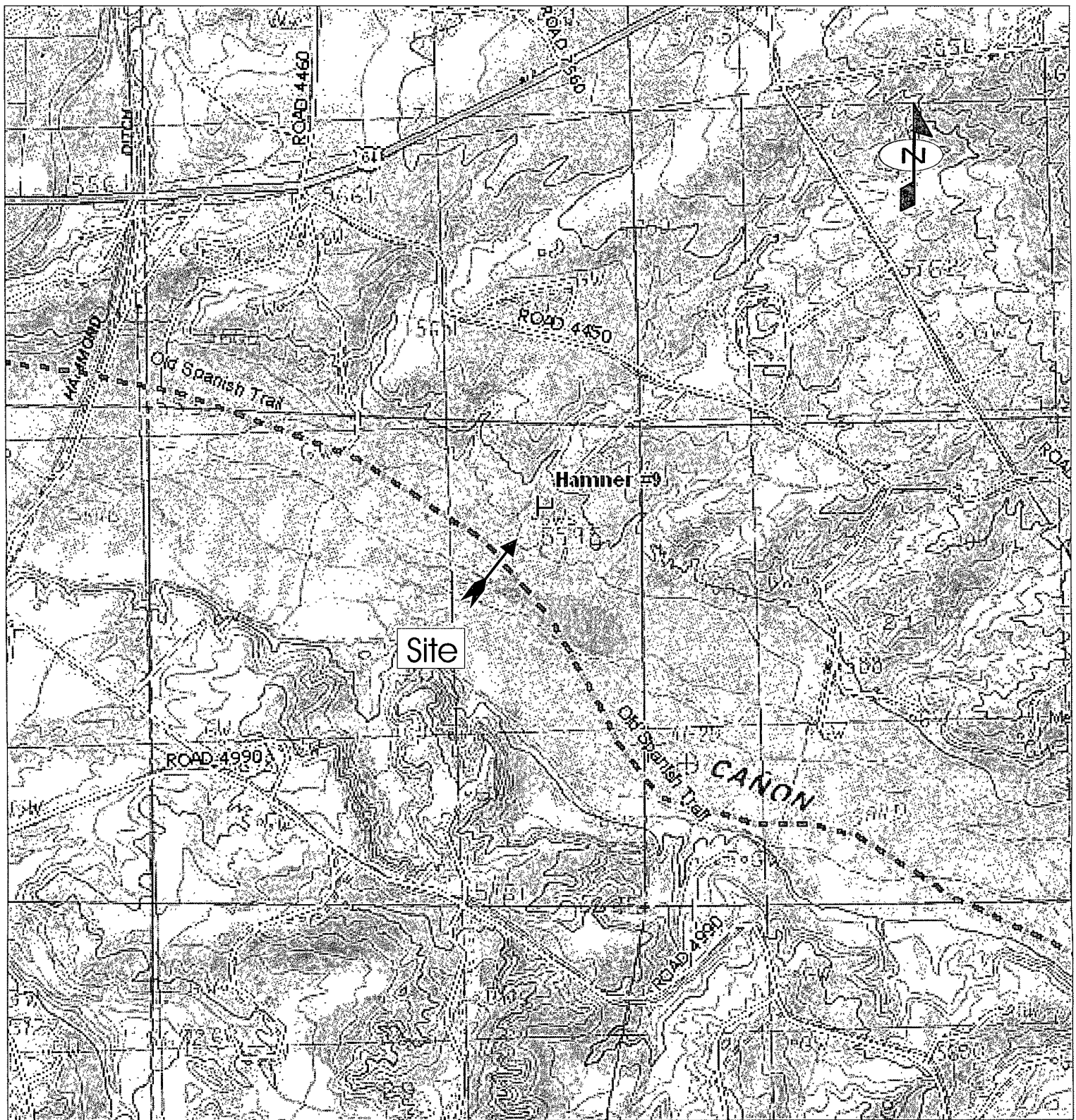
Greg Crabtree, PE  
Environmental Manager/Engineer  
[gcrabtree@envirotech-inc.com](mailto:gcrabtree@envirotech-inc.com)



## **FIGURES**

Figure 1, Vicinity Map

Figure 2, Site Map



Source: Blanco New Mexico 7.5 Minute U.S.G.S. Topographic Quadrangle Map  
 Scale: 1:24,000 1" = 2000'

ConocoPhillips  
 Hamner #9 Well Site  
 Section 20, Township 29N, Range 9W  
 San Juan County, New Mexico

## ENVIROTECH INC.

ENVIRONMENTAL SCIENTISTS & ENGINEERS

5796 U.S. HIGHWAY 64  
 FARMINGTON, NEW MEXICO 87401

PHONE (505) 632-0615

Vicinity Map

Figure 1

PROJECT No 96052-1840

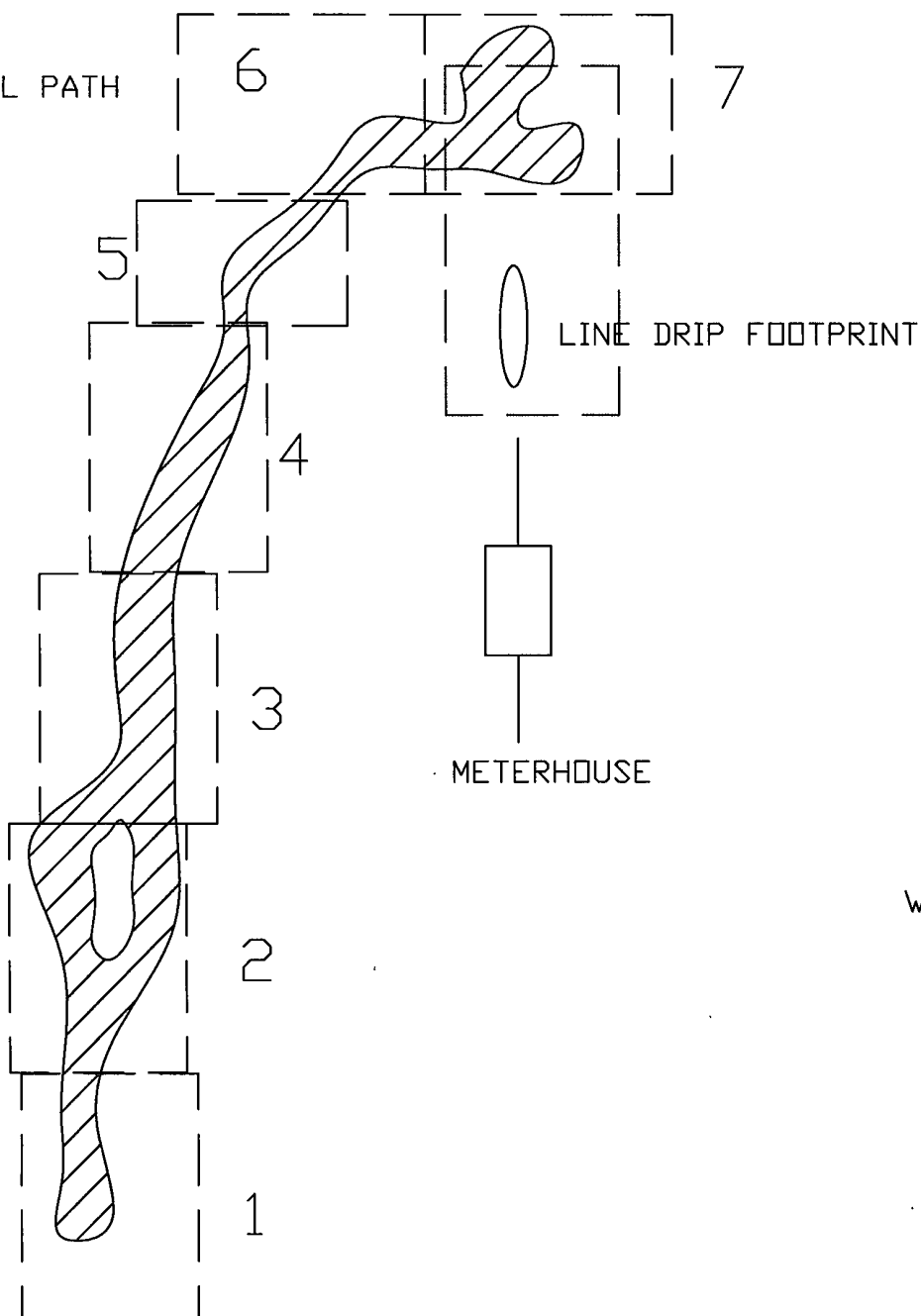
Date Drawn: 12/28/10

DRAWN BY:  
 Jammae DeHerrera

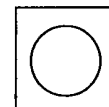
PROJECT MANAGER:  
 Greg Crabtree



SPILL PATH



AST



METERHOUSE

WELLHEAD



SECTIONS



LINEDRIP EXCAVATION



SPILL PATH

# SITE MAP CONOCOPHILLIPS

HAMNER #9

SECTION 20 TOWNSHIP 29N RANGE 9W  
SPILL ASSESSMENT

SCALE: NTS

FIGURE NO. 1

REV

PROJECT N096052-1836

## REVISIONS

NO.	DATE	BY	DESCRIPTION
MAP DRWN	BWW	12-30-10	BASE DRWN



envirotech

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

## TABLES

Table 1, Summary of Analytical Results

**Table 1, Summary of Analytical Results**

ConocoPhillips

Hamner #9

Confirmation Sampling Report

Project No. 96052-1836

Sample Number	Sample Description	Date	BTEX (ppm) USEPA Method 8021	Benzene (ppm) USEPA Method 8021	OVM (ppm)	TPH (ppm) USEPA Method 418.1	DRO/GRO (ppm) USEPA Method 8015
NA	NMOC Standards	NA	50	10	100	100	100
1	Section 1	12/3/2010	NS	NS	0.2	236	ND
2	Section 2	12/3/2010	NS	NS	1.2	264	5.9
3	Section 3-1	12/3/2010	NS	NS	1.3	1290	NS
4	Section 3-2	12/3/2010	NS	NS	0.8	176	ND
5	Section 4	12/3/2010	NS	NS	0.7	204	ND
1	Section 5	12/6/2010	NS	NS	14.3	200	9.8
2	Section 6	12/6/2010	NS	NS	4.6	92	ND
3	Section 7 Bottom	12/6/2010	NS	NS	623	1040	NS
4	Section 7 Walls	12/6/2010	NS	NS	282	496	18
1	Bottom of Trench	12/15/2010	NS	NS	47	52	ND
1	North	12/16/2010	NS	NS	ND	20	NS
2	South	12/16/2010	NS	NS	ND	8	NS
3	East	12/16/2010	NS	NS	24	56	NS

## **APPENDIX A**

### *Analytical Results*

Client: **Conoco Phillips**



Location No:

C.O.C. No:

# FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 1 OF 1

LOCATION: NAME: Hamner #4 WELL #: 19  
 QUAD/UNIT: A SEC: 20 TWP: 29N RNG: 9W PM: CNTY: SJ ST: NM  
 QTR/FOOTAGE: NA CONTRACTOR: CFM

DATE STARTED: 12-3-10  
 DATE FINISHED: 12/16/10  
 ENVIRONMENTAL SPECIALIST: RJ

EXCAVATION APPROX: Sections FT. X FT. X FT. DEEP CUBIC YARDAGE:  
 DISPOSAL FACILITY: NA REMEDIATION METHOD: NA  
 LAND USE: Grazing LEASE: NA LAND OWNER: Federal  
 CAUSE OF RELEASE: Leaking pipeline MATERIAL RELEASED: Condensate

SPILL LOCATED APPROXIMATELY: 150 FT. 270° FROM WH  
 DEPTH TO GROUNDWATER: NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: 1410'  
 NMOCD RANKING SCORE: 20 NMOCD TPH CLOSURE STD: 100 PPM.  
 SOIL AND EXCAVATION DESCRIPTION:

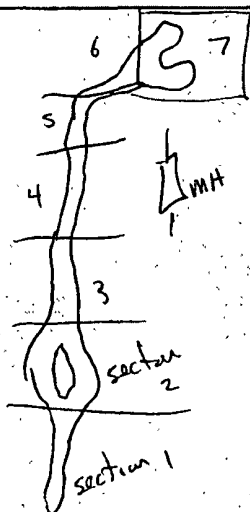
Calibration check  
246 STD → 248 PPM

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
Section 1	15:00	1		5	20	4	59	236
Section 2	15:05	2		5	20	4	66	264
Section 3-1	15:10	3		5	20	4	322	1288
Section 3-2	15:45	4		5	20	4	44	176
Section 4	15:50	5		5	20	4	51	204

## SPILL PERIMETER

## OVM RESULTS

## SPILL PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)	
1	1.2	
2	1.2	
3	1.3	
4	0.8	
5	0.7	
LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME

Section 1 - 30' x 2' x 1.5'  
 2 - 37' x 2' x 1.5'  
 3 - 30' x 2' x 1'  
 samples collected from each section for SO<sub>2</sub>/chlorides

TRAVEL NOTES: \_\_\_\_\_ CALLED OUT: \_\_\_\_\_ ONSITE: \_\_\_\_\_



**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	96052-1836
Sample No.:	1	Date Reported:	12/30/2010
Sample ID:	Section 1	Date Sampled:	12/3/2010
Sample Matrix:	Soil	Date Analyzed:	12/3/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

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

<b>Total Petroleum Hydrocarbons</b>	<b>236</b>	<b>5.0</b>
-------------------------------------	------------	------------

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: **Hamner #9**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

  
Analyst

Robyn Jones, EIT

Printed

  
Review

Barian Williamson, FT

Printed



**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client: ConocoPhillips  
Sample No.: 2  
Sample ID: Section 2  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 96052-1836  
Date Reported: 12/30/2010  
Date Sampled: 12/3/2010  
Date Analyzed: 12/3/2010  
Analysis Needed: TPH-418.1

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

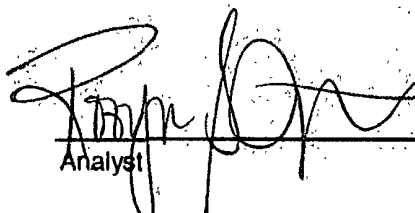
Total Petroleum Hydrocarbons	264	5.0
------------------------------	-----	-----

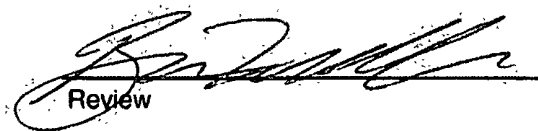
ND = Parameter not detected at the stated detection limit.

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

Comments: **Hamner #9**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

  
Analyst  
**Robyn Jones, EIT**  
Printed

  
Review  
**Barian Williamson, FT**  
Printed



**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client: ConocoPhillips  
Sample No.: 3  
Sample ID: Section 3 -1  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 96052-1836  
Date Reported: 12/30/2010  
Date Sampled: 12/3/2010  
Date Analyzed: 12/3/2010  
Analysis Needed: TPH-418.1

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

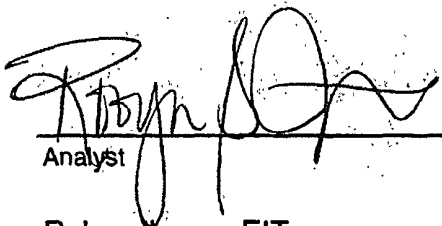
Total Petroleum Hydrocarbons	1,290	5.0
------------------------------	-------	-----

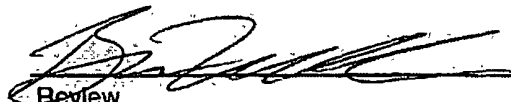
ND = Parameter not detected at the stated detection limit.

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

Comments: **Hamner #9**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

  
\_\_\_\_\_  
Analyst  
  
Robyn Jones, EIT  
\_\_\_\_\_  
Printed

  
\_\_\_\_\_  
Review  
  
Barian Williamson, FT  
\_\_\_\_\_  
Printed





**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client: ConocoPhillips  
Sample No.: 4  
Sample ID: Section 3 -2  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 96052-1836  
Date Reported: 12/30/2010  
Date Sampled: 12/3/2010  
Date Analyzed: 12/3/2010  
Analysis Needed: TPH-418.1

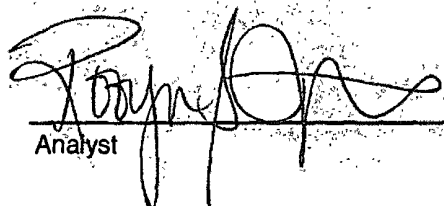
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	176	5.0

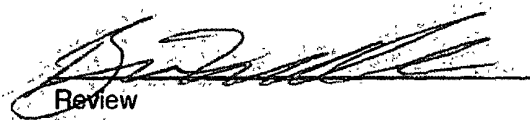
ND = Parameter not detected at the stated detection limit.

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

Comments: **Hamner #9**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

  
Analyst  
Robyn Jones, EIT  
Printed

  
Review  
Barian Williamson, FT  
Printed



**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client: ConocoPhillips  
Sample No: 5  
Sample ID: Section 4  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 96052-1836  
Date Reported: 1/3/2011  
Date Sampled: 12/3/2010  
Date Analyzed: 12/3/2010  
Analysis Needed: TPH-418.1

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

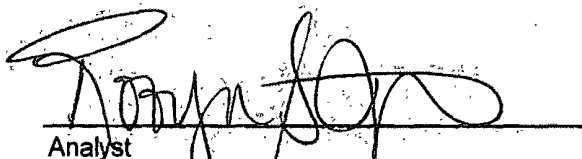
Total Petroleum Hydrocarbons	204	5.0
------------------------------	-----	-----

ND = Parameter not detected at the stated detection limit.

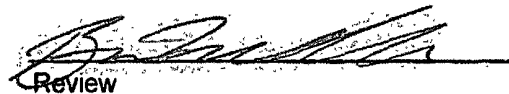
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Hamner #9**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

  
Analyst

Robyn Jones, EIT  
Printed

  
Review

Barian Williamson, FT  
Printed

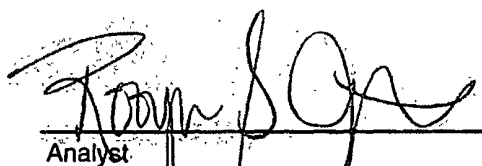


CONTINUOUS CALIBRATION  
EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

Cal. Date: 3-Dec-10

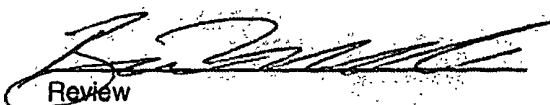
Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	246	248
	500	
	1000	

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

  
Analyst

Robyn Jones, EIT  
Print Name

12/30/2010  
Date

  
Review

Barian Williamson, FT  
Print Name

12/30/2010  
Date



**envirotech**  
Analytical Laboratory

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

Client:	ConocoPhillips	Project #:	96052-1836
Sample ID:	Section 1	Date Reported:	12-06-10
Laboratory Number:	56622	Date Sampled:	12-03-10
Chain of Custody No:	10843	Date Received:	12-03-10
Sample Matrix:	Soil	Date Extracted:	12-06-10
Preservative:	Cool	Date Analyzed:	12-06-10
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: **Hamner #9**

Analyst

Review

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

Client:	ConocoPhillips	Project #:	96052-1836
Sample ID:	Section 2	Date Reported:	12-06-10
Laboratory Number:	56623	Date Sampled:	12-03-10
Chain of Custody No:	10843	Date Received:	12-03-10
Sample Matrix:	Soil	Date Extracted:	12-06-10
Preservative:	Cool	Date Analyzed:	12-06-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2.3	0.2
Diesel Range (C10 - C28)	3.6	0.1
Total Petroleum Hydrocarbons	5.9	

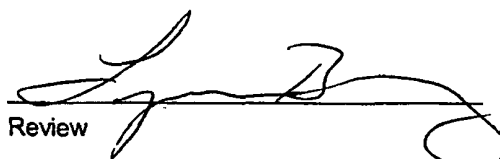
ND - Parameter not detected at the stated detection limit.

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

Comments: **Hamner #9**



Analyst



Review



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

Client:	ConocoPhillips	Project #:	96052-1836
Sample ID:	Section 3 #2	Date Reported:	12-06-10
Laboratory Number:	56624	Date Sampled:	12-03-10
Chain of Custody No:	10843	Date Received:	12-03-10
Sample Matrix:	Soil	Date Extracted:	12-06-10
Preservative:	Cool	Date Analyzed:	12-06-10
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: **Hamner #9**

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Review

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

Client:	ConocoPhillips	Project #:	96052-1836
Sample ID:	Section 4	Date Reported:	12-06-10
Laboratory Number:	56625	Date Sampled:	12-03-10
Chain of Custody No:	10843	Date Received:	12-03-10
Sample Matrix:	Soil	Date Extracted:	12-06-10
Preservative:	Cool	Date Analyzed:	12-06-10
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: **Hamner #9**

  
\_\_\_\_\_  
Analyst  
\_\_\_\_\_  
Review

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

**Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	12-06-10 QA/QC	Date Reported:	12-06-10
Laboratory Number:	56605	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-06-10
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	12-06-10	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	12-06-10	9.9960E+002	1.0000E+003	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1

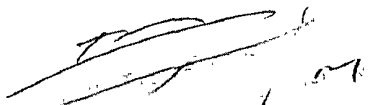
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	291	117%	75 - 125%
Diesel Range C10 - C28	ND	250	267	107%	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 56605-56610, 56622-56625

  
 Analyst

  
 Review





Client:	ConocoPhillips	Project #:	96052-1836
Sample ID:	Section 1	Date Reported:	12-06-10
Lab ID#:	56622	Date Sampled:	12-03-10
Sample Matrix:	Soil	Date Received:	12-03-10
Preservative:	Cool	Date Analyzed:	12-06-10
Condition:	Intact	Chain of Custody:	10843

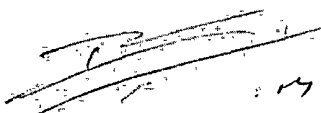
Parameter	Concentration (mg/Kg)
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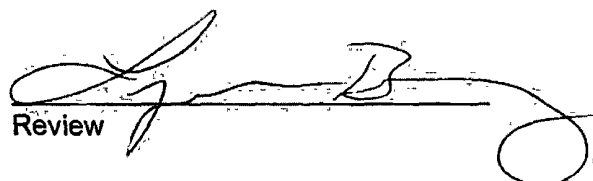
**Total Chloride**

**15**

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: **Hamner #9**

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Review

Client:	ConocoPhillips	Project #:	96052-1836
Sample ID:	Section 2	Date Reported:	12-06-10
Lab ID#:	56623	Date Sampled:	12-03-10
Sample Matrix:	Soil	Date Received:	12-03-10
Preservative:	Cool	Date Analyzed:	12-06-10
Condition:	Intact	Chain of Custody:	10843

**Parameter****Concentration (mg/Kg)****Total Chloride****5**

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: **Hamner #9**

  
Analyst  
Review



Client:	ConocoPhillips	Project #:	96052-1836
Sample ID:	Section 3 #2	Date Reported:	12-06-10
Lab ID#:	56624	Date Sampled:	12-03-10
Sample Matrix:	Soil	Date Received:	12-03-10
Preservative:	Cool	Date Analyzed:	12-06-10
Condition:	Intact	Chain of Custody:	10843

Parameter	Concentration (mg/Kg)
-----------	-----------------------

**Total Chloride**

**10**

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: **Hamner #9**

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Review



Client:	ConocoPhillips	Project #:	96052-1836
Sample ID:	Section 4	Date Reported:	12-06-10
Lab ID#:	56625	Date Sampled:	12-03-10
Sample Matrix:	Soil	Date Received:	12-03-10
Preservative:	Cool	Date Analyzed:	12-06-10
Condition:	Intact	Chain of Custody:	10843

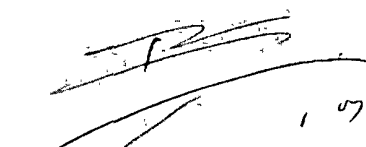
Parameter	Concentration (mg/Kg)
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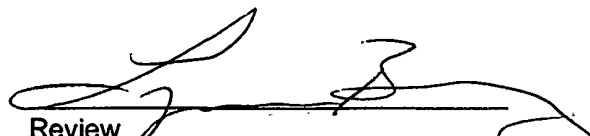
**Total Chloride**

**20**

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: **Hamner #9**

  
\_\_\_\_\_  
Analyst

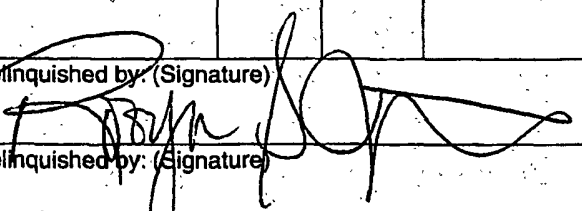
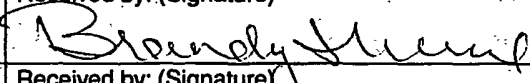
  
\_\_\_\_\_  
Review

KUSH

## CHAIN OF CUSTODY RECORD

KUSH

10843

Client: <b>Conoco Phillips</b>			Project Name / Location: <b>Hammer #9</b>			ANALYSIS / PARAMETERS																																																					
Client Address:			Sampler Name: <b>Robyn Jones</b>			<table border="1"> <tr> <td>TPH (Method 8015)</td> <td>BTEX (Method 8021)</td> <td>VOC (Method 8260)</td> <td>RCRA 8 Metals</td> <td>Cation / Anion</td> <td>RCI</td> <td>TCLP with H/P</td> <td>PAH</td> <td>TPH (418.1)</td> <td>CHLORIDE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>														TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE																														
TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI															TCLP with H/P	PAH	TPH (418.1)	CHLORIDE																																				
Client Phone No.:			Client No.: <b>916052-1836</b>																																																								
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative			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																																			
Section 1	12/3/10	15:08	506022	Soil Solid	1-4oz				X	X									X					X	X																																		
Section 2		15:15	506023	Soil Solid					X	X									X					X	X																																		
Section 3 #2		15:45	506024	Soil Solid					X	X									X					X	X																																		
Section 4		15:42	506025	Soil Solid					X	X									X					X	X																																		
				Soil Solid	Sludge Aqueous																																																						
				Soil Solid	Sludge Aqueous																																																						
				Soil Solid	Sludge Aqueous																																																						
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Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time																																																
				12/3/10	16:30					12/3/10	16:30																																																
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Relinquished by: (Signature)						Received by: (Signature)																																																					

RUSH


**envirotech**  
 Analytical Laboratory

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

Client:



**envirotech**  
(505) 632-0615 (800) 362-1879  
5798 U.S. Hwy 64, Farmington, NM 87401

Location No:

C.O.C. No:

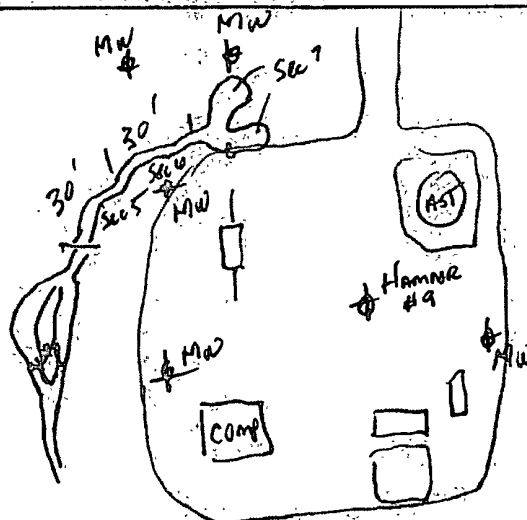
**FIELD REPORT: SPILL CLOSURE VERIFICATION**PAGE NO: 1 OF 1DATE STARTED: 12/6/10DATE FINISHED: 12/6/10LOCATION: NAME: Hammer WELL #: 9QUAD/UNIT: A SEC: 20 TWP: 29N RNG: 9W PM: NMPM CNTY: SJ STA: M

QTR/FOOTAGE: CONTRACTOR:

ENVIRONMENTAL

SPECIALIST: GWEXCAVATION APPROX: Section 5 FT. X FT. X 3-4 FT. DEEP. CUBIC YARDAGE:DISPOSAL FACILITY: NA REMEDIATION METHOD: NALAND USE: Corn 2-nd LEASE: NA LAND OWNER: FederalCAUSE OF RELEASE: Leaking Pipeline MATERIAL RELEASED: CondensateSPILL LOCATED APPROXIMATELY: 150 FT. 270' FROM WellheadDEPTH TO GROUNDWATER: 7100' NEAREST WATER SOURCE: 71000' NEAREST SURFACE WATER: 140'NMOCD RANKING SCORE: 20 NMOCD TPH CLOSURE STD: 100 PPM**SOIL AND EXCAVATION DESCRIPTION:**

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
Section 5				5.0	20	4	50	200
Section 6				↓	↓	4	23	92
Section 7 Bottom				↓	↓	4	261	1044
Section 7 walls				↓	↓	4	124	496
240 std							259	259

**SPILL PERIMETER****OVM RESULTS****SPILL PROFILE**

SAMPLE ID	FIELD HEADSPACE PID (ppm)
100 STD	101
Sec 5	14.3
Sec 6	4.6
Sec 7 BOT	623
Sec 7 walls	292

**LAB SAMPLES**

SAMPLE ID	ANALYSIS	TIME

TRAVEL NOTES: \_\_\_\_\_ CALLED OUT: \_\_\_\_\_ ONSITE: \_\_\_\_\_



**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client: Conoco Phillips  
Sample No.: 1  
Sample ID: Section 5  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 96052-1836  
Date Reported: 12/28/2010  
Date Sampled: 12/6/2010  
Date Analyzed: 12/6/2010  
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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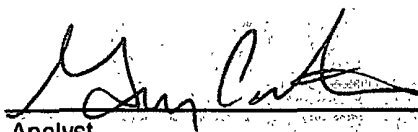
Total Petroleum Hydrocarbons	200	5.0
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ND = Parameter not detected at the stated detection limit.

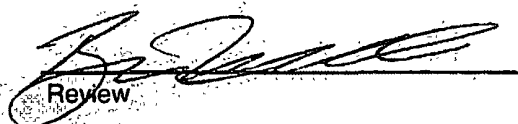
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Hamner #9

Instrument calibrated to 200 ppm standard. Zeroed before each sample

  
Analyst

Greg Crabtree, PE  
Printed

  
Review

Barian Williamson, FT  
Printed



**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client: Conoco Phillips  
Sample No.: 2  
Sample ID: Section 6  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 96052-1836  
Date Reported: 12/28/2010  
Date Sampled: 12/6/2010  
Date Analyzed: 12/6/2010  
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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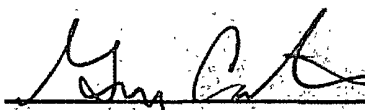
Total Petroleum Hydrocarbons	92	5.0
------------------------------	----	-----

ND = Parameter not detected at the stated detection limit.

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

Comments: Hamner #9

Instrument calibrated to 200 ppm standard. Zeroed before each sample

  
\_\_\_\_\_  
Analyst

Greg Crabtree, PE  
Printed

  
\_\_\_\_\_  
Review

Barian Williamson, FT  
Printed





**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client:	Conoco Phillips	Project #:	96052-1836
Sample No.:	3	Date Reported:	12/28/2010
Sample ID:	Section 7 Bottom	Date Sampled:	12/6/2010
Sample Matrix:	Soil	Date Analyzed:	12/6/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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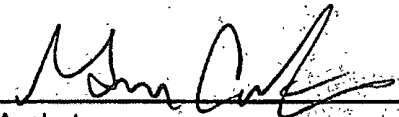
<b>Total Petroleum Hydrocarbons</b>	<b>1,040</b>	<b>5.0</b>
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ND = Parameter not detected at the stated detection limit.

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

Comments: **Hamner #9**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

  
\_\_\_\_\_  
Analyst

**Greg Crabtree, PE**  
\_\_\_\_\_  
Printed

  
\_\_\_\_\_  
Review

**Barian Williamson, FT**  
\_\_\_\_\_  
Printed



**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client:	Conoco Phillips	Project #:	96052-1836
Sample No.:	4	Date Reported:	12/28/2010
Sample ID:	Section 7 Walls	Date Sampled:	12/6/2010
Sample Matrix:	Soil	Date Analyzed:	12/6/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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<b>Total Petroleum Hydrocarbons</b>	<b>496</b>	<b>5.0</b>
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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: **Hamner #9**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

  
\_\_\_\_\_  
Analyst

**Greg Crabtree, PE**  
\_\_\_\_\_  
Printed

  
\_\_\_\_\_  
Review

**Barian Williamson, FT**  
\_\_\_\_\_  
Printed

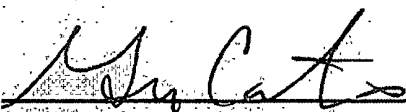


CONTINUOUS CALIBRATION  
EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

Cal. Date: 6-Dec-10


Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	246	259
	500	
	1000	

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

  
Analyst

12/28/2010  
Date

Greg Crabtree, PE  
Print Name

  
Review

12/28/2010  
Date

Barian Williamson, FT  
Print Name



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

Client:	ConocoPhillips	Project #:	96052-1836
Sample ID:	Section 5	Date Reported:	12-07-10
Laboratory Number:	56631	Date Sampled:	12-06-10
Chain of Custody No:	10850	Date Received:	12-06-10
Sample Matrix:	Soil	Date Extracted:	12-06-10
Preservative:	Cool	Date Analyzed:	12-07-10
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)	9.8	0.1
Total Petroleum Hydrocarbons	9.8	

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: **Hamner #9**

Analyst

Review

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

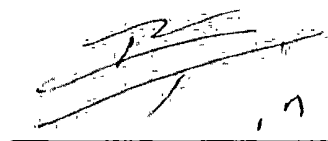

Client:	ConocoPhillips	Project #:	96052-1836
Sample ID:	Section 6	Date Reported:	12-07-10
Laboratory Number:	56632	Date Sampled:	12-06-10
Chain of Custody No:	10850	Date Received:	12-06-10
Sample Matrix:	Soil	Date Extracted:	12-06-10
Preservative:	Cool	Date Analyzed:	12-07-10
Condition:	Intact	Analysis 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: **Hamner #9**

  
\_\_\_\_\_  
Analyst  
\_\_\_\_\_  
Review



**Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	12-07-10 QA/QC	Date Reported:	12-07-10
Laboratory Number:	56630	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-07-10
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	12-07-10	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	12-07-10	9.9960E+002	1.0000E+003	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	256	103%	75 - 125%
Diesel Range C10 - C28	ND	250	270	108%	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 56630-56640

Analyst

Review

# CHAIN OF CUSTODY RECORD

10850


Client: <b>Conoco Phillips</b>			Project Name / Location: <b>Hammer #9</b>			ANALYSIS / PARAMETERS																															
Client Address:			Sampler Name: <b>G. Crabtree</b>			<table border="1"> <tr> <td rowspan="2">TPH (Method 8015)</td> <td rowspan="2">BTEX (Method 8021)</td> <td rowspan="2">VOC (Method 8260)</td> <td rowspan="2">RCRA 8 Metals</td> <td rowspan="2">Cation / Anion</td> <td rowspan="2">RCI</td> <td rowspan="2">TCLP with H/P</td> <td rowspan="2">PAH</td> <td rowspan="2">TPH (418.1)</td> <td rowspan="2">CHLORIDE</td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2">Sample Cool</td> <td rowspan="2">Sample Intact</td> </tr> <tr></tr> </table>														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
TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI																																
Client Phone No.:			Client No.: <b>96052-1836</b>																																		
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative																															
						HgCl <sub>2</sub>	HCl	As <sub>2</sub> S <sub>3</sub>																													
<b>Section 5</b>	<b>12/6/10</b>	<b>1300</b>	<b>56631</b>	<b>Soil Solid</b>	<b>Sludge Aqueous</b>	<b>1-4oz</b>			✓	✓									Y	Y																	
<b>Section 6</b>	<b>12/6/10</b>	<b>1310</b>	<b>56632</b>	<b>Soil Solid</b>	<b>Sludge Aqueous</b>	<b>1-4oz</b>			✓	✓									Y	Y																	
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**Rust**



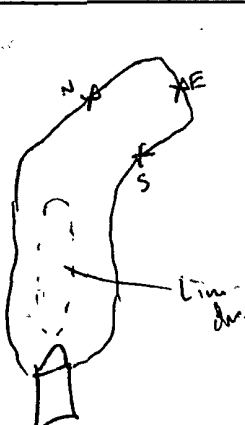
**envirotech**  
Analytical Laboratory

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

ident: <b>COPC</b>	 <b>envirotech</b> <small>(800) 632-0615 (800) 362-1670          5700 U.S. Hwy 64, Farmington, NM 87401</small>	Location No:  C.O.C. No:
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<b>FIELD REPORT: SPILL CLOSURE VERIFICATION</b>		PAGE NO: <u>1</u> OF <u>1</u>
LOCATION: NAME: <u>HAMNER</u> WELL #: <u>9</u>		DATE STARTED: <u>12-16-10</u>
ROAD/UNIT: <u>A</u> SEC: <u>20</u> TWP: <u>29N</u> RNG: <u>9W</u> PM: <u>CNTY: SJ ST: NM</u>		DATE FINISHED: <u>12-16-10</u>
R/FOOTAGE: <u>NA</u> CONTRACTOR: <u>NA</u>		ENVIRONMENTAL SPECIALIST: <u>BWW</u>
CAVATION APPROX: <u>5</u> FT. X <u>10</u> FT. X <u>5</u> FT. DEEP CUBIC YARDAGE: <u>NA</u>		
SPOSA FACILITY: <u>NA</u> REMEDIATION METHOD: <u>Removal</u>		
LAND USE: <u>Grazing</u> LEASE: <u>30045 23421</u> LAND OWNER: <u>Federal</u>		
USE OF RELEASE: <u>Line Leak</u> MATERIAL RELEASED: <u>Condensate</u>		
WELL LOCATED APPROXIMATELY: <u>FT.</u> FROM <u></u>		
DEPTH TO GROUNDWATER: <u></u> NEAREST WATER SOURCE: <u></u> NEAREST SURFACE WATER: <u>140'</u>		
NMOC D RANKING SCORE: <u>20</u> NMOC D TPH CLOSURE STD: <u>100</u> PPM		
WELL AND EXCAVATION DESCRIPTION: <u>Collected Samples from walls</u>		

SAMPLE DESCRIPTION	TIME	SAMPLE ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
<u>200 STI</u>	<u>12:10</u>						<u>200</u>	
<u>NORTH</u>	<u>12:12</u>	<u>1</u>		<u>5</u>	<u>20</u>	<u>4</u>	<u>5</u>	<u>20</u>
<u>SOUTH</u>	<u>12:17</u>	<u>2</u>		<u>5</u>	<u>20</u>	<u>4</u>	<u>2</u>	<u>8</u>
<u>EAST</u>	<u>12:23</u>	<u>3</u>		<u>5</u>	<u>20</u>	<u>4</u>	<u>14</u>	<u>56</u>

SPILL PERIMETER	OVM RESULTS	SPILL PROFILE																																																						
	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th><th>FIELD HEADSPACE PID (ppm)</th></tr> </thead> <tbody> <tr><td><u>1</u></td><td><u>0.0</u></td></tr> <tr><td><u>2</u></td><td><u>0.0</u></td></tr> <tr><td><u>3</u></td><td><u>24.0</u></td></tr> <tr><td> </td><td></td></tr> <tr><td> </td><td></td></tr> <tr><td> </td><td></td></tr> <tr><td> </td><td></td></tr> <tr><td> </td><td></td></tr> <tr><td> </td><td></td></tr> <tr><td> </td><td></td></tr> <tr><td> </td><td></td></tr> </tbody> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">LAB SAMPLES</th> </tr> <tr> <th>SAMPLE ID</th><th>ANALYSIS</th><th>TIME</th></tr> </thead> <tbody> <tr><td> </td><td></td><td></td></tr> <tr><td> </td><td></td><td></td></tr> <tr><td> </td><td></td><td></td></tr> <tr><td> </td><td></td><td></td></tr> <tr><td> </td><td></td><td></td></tr> <tr><td> </td><td></td><td></td></tr> <tr><td> </td><td></td><td></td></tr> <tr><td> </td><td></td><td></td></tr> </tbody> </table>	SAMPLE ID	FIELD HEADSPACE PID (ppm)	<u>1</u>	<u>0.0</u>	<u>2</u>	<u>0.0</u>	<u>3</u>	<u>24.0</u>																	LAB SAMPLES			SAMPLE ID	ANALYSIS	TIME																									
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ADDITIONAL NOTES:	CALLED OUT:	ONSITE:





**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client: ConocoPhillips  
Sample No.: 1  
Sample ID: North Wall  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 96052-1836  
Date Reported: 12/30/2010  
Date Sampled: 12/16/2010  
Date Analyzed: 12/16/2010  
Analysis Needed: TPH-418.1

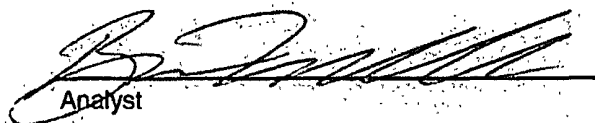
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	20	5.0

ND = Parameter not detected at the stated detection limit.

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

Comments: **Hamner #9**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

  
Analyst

Barian Williamson, FT  
Printed

  
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Toni McKnight, EIT  
Printed



**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client: ConocoPhillips  
Sample No.: 2  
Sample ID: South Wall  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 96052-1836  
Date Reported: 12/30/2010  
Date Sampled: 12/16/2010  
Date Analyzed: 12/16/2010  
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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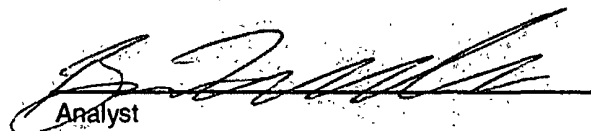
Total Petroleum Hydrocarbons	8	5.0
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ND = Parameter not detected at the stated detection limit.

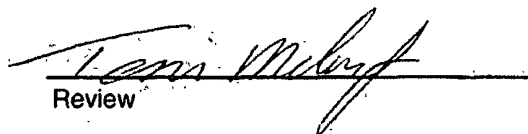
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Hamner #9**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

  
Analyst

Barian Williamson, FT  
Printed

  
Review

Toni McKnight, EIT  
Printed



**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client: ConocoPhillips  
Sample No.: 3  
Sample ID: East Wall  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 96052-1836  
Date Reported: 12/30/2010  
Date Sampled: 12/16/2010  
Date Analyzed: 12/16/2010  
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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**Total Petroleum Hydrocarbons**

**56**

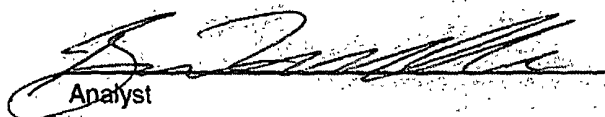
**5.0**

ND = Parameter not detected at the stated detection limit.

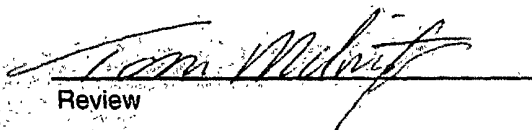
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Hamner #9**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

  
Analyst

Barian Williamson, FT  
Printed

  
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CONTINUOUS CALIBRATION  
EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

Cal. Date: 16-Dec-10


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

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

  
Analyst

Barian Williamson, FT

Print Name

  
Review

Toni McKnight, EIT

Print Name

12/30/2010

Date

12/30/2010

Date