

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 Burlington Resources, A Wholly Owned Subsidiary of ConocoPhillips Company	Contact Kelsi Harrington
Address 3401 E. 30th St., Farmington, NM 87402	Telephone No. 505-599-3403
Facility Name Culpepper Martin 1E	Facility Type Gas Well API #3004525114
Surface Owner Private	Mineral Owner Private Lease No.

LOCATION OF RELEASE

Unit Letter P	Section 31	Township 32N	Range 12W	Feet from the 1110'	North/South Line South	Feet from the 830'	East/West Line East	County San Juan
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Latitude **36.93805° N** Longitude **-108.12987° W**

NATURE OF RELEASE

Type of Release – Unknown	Volume of Release – Unknown	Volume Recovered –
Source of Release: Sales Line	Date and Hour of Occurrence	Date and Hour of Discovery 2/14/2011
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour –	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		

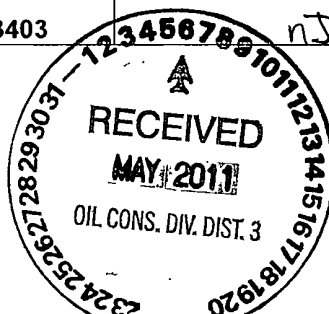
Describe Cause of Problem and Remedial Action Taken.* **Historic staining was observed during repair of the sales line. Upon discovery, a spill assessment was completed.**

Describe Area Affected and Cleanup Action Taken.* **Excavation and confirmation sampling occurred. Approximately 100 cu/yds of impacted soil was removed. At approximately 6 feet deep, bed rock was encountered. Analytical results for the walls were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases; however the bottom on bedrock returned results above the regulatory standards for total petroleum hydrocarbons. As maximum extent was reached due to bedrock being encountered, the bottom of the excavation was treated with potassium permanganate. After the treatment, and with the approval of Aztec NMOCD, the excavation was backfilled; therefore no further action is required.**

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: Kelsi Harrington	Approved by District Supervisor: <i>Bob Felt</i>	
Title: Environmental Consultant	Approval Date: 5/6/11	Expiration Date:
E-mail Address: kelsi.g.harrington@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 4/27/11 Phone: 505-599-3403	nJK1122142524	

* Attach Additional Sheets If Necessary





April 22, 2011

Project Number 92115-1596

Ms. Kelsi Harrington
ConocoPhillips
3401 East 30th Street
Farmington, New Mexico 87401

Phone: (505) 599-3403

**RE: SPILL ASSESSMENT AND CONFIRMATION SAMPLING DOCUMENTATION AT THE
CULPEPPER MARTIN #1E (hBr) WELL SITE, SAN JUAN COUNTY, NEW MEXICO**

Dear Ms. Harrington,

Enclosed please find the field notes and analytical results for spill assessment and confirmation sampling activities performed at the Culpepper Martin #1E (hBr) well site located in Section 31, Township 32 North, Range 12 West, San Juan County, New Mexico. A release of condensate had occurred from a pipeline leading into the separator on site. Upon Envirotech's arrival on February 16, 2011, a brief site assessment was conducted. Because distance to surface water was less than 200 feet from the well site, the regulatory standards for the site were determined to be 100 parts per million (ppm) total petroleum hydrocarbons (TPH) and 100 ppm organic vapors, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases.

Prior to Envirotech personnel's arrival on February 16, 2011, the area of release had been excavated to the extents of 14 feet by three (3) feet by three (3) feet deep. Two (2) composite samples were collected from the excavated area; see enclosed *Field Notes*. One (1) sample was collected from a hole dug around the separator pipe and one (1) sample was collected from black soil located on the trench wall. Both samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID). The black soil from the trench wall sample returned results below the regulatory standards for TPH and organic vapors. The sample collected from the separator pipe hole returned results above the regulatory standards for TPH and organic vapors; see enclosed *Field Notes* and *Analytical Results*. Envirotech, Inc. recommended further excavation.

Prior to Envirotech's arrival on February 25, 2011, CF&M Oilfield had excavated the area of release to 23 feet by 13 feet by six (6) feet deep; depth extents were reached due to bedrock. A composite sample was collected from the excavation and analyzed for organic vapors using a PID. Composite samples were then collected from the bottom, east wall, south wall, west wall, and north wall of the excavation. The bottom and north wall samples were analyzed for organic vapors and returned results above the regulatory standard for organic vapors. The east wall, south wall, and west wall samples were analyzed in the field for TPH using USEPA

Method 418.1 and for organic vapors. The east and south wall samples returned results below the regulatory standards for both TPH and organic vapors. The west wall sample returned results below the regulatory standard for organic vapors, but above the regulatory standard for TPH. The bottom and north wall of the excavation were further excavated to extents of 23 feet by 13 feet by six (6) feet deep. One (1) sample was collected from the bottom (Bottom 2) and one (1) sample from the north wall (North Wall 2). The samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors. Both samples returned results above the regulatory standards for TPH and organic vapors. The Bottom 2 and North Wall 2 samples were then each collected into a four (4)-ounce glass jar, 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 BTEX using USEPA Method 8021. Additionally the west wall sample was collected into a four (4)-ounce glass jar, 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. The North Wall 2 sample returned results below regulatory standards for all constituents analyzed. The west wall sample returned results above the regulatory standard for TPH. The Bottom 2 sample returned results below the regulatory standard for BTEX, but above the regulatory standard for TPH. Envirotech, Inc. recommended further excavation and treatment to the surface bottom.

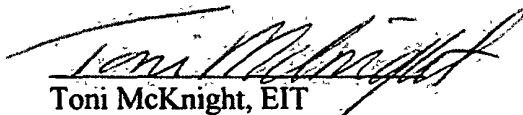
Prior to Envirotech personnel's arrival on March 3, 2011, CF&M Oilfield had excavated the west wall by approximately two (2) feet. A five (5)-point composite sample was collected from the west wall of the excavation. The sample was analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. The west wall sample returned results below the regulatory standards for TPH and organic vapors; see enclosed *Field Notes*.

Envirotech personnel returned to the location on March 4, 2011, to treat the bottom of the excavation with potassium permanganate. Envirotech, Inc. recommends no further action in regards to this incident.

Envirotech personnel returned to the location on March 8, 2011. Suspect asbestos containing material (ACM) was present in the separator pipe coating. Two (2) samples were collected and transported to EMC Laboratories, Inc. to be analyzed for asbestos. The separator pipe coating returned results positive for ACM; see attached *Asbestos Sampling Report*. Envirotech, Inc. personnel did not abate the material. Instead, ConocoPhillips personnel wrapped the exposed pipes with plastic in preparation for backfill.

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.



Toni McKnight, EIT
Environmental Project Engineer
tmcknight@envirotech-inc.com

Enclosures: Field Notes
Summary of Analytical Results
Analytical Results
Asbestos Sampling Report

Cc: Client File 92115

Table 1, Summary of Analytical Results
 ConocoPhillips
 Culpepper Martin #1E (hBr)
 Spill Assessment and Confirmation Sampling Documentation
 Project No. 92115-1596

Date	Sample Description	Sample Number	PID OV (ppm)	USEPA Method 418.1 TPH (ppm)	USEPA Method 8015 TPH (ppm)	USEPA Method 8021	
						Benzene (ppm)	BTEX (ppm)
NA	New Mexico Oil Conservation Division Standards	NA	100	100	100	10	50
2/16/2011	Separator Pipe Hole	1	2300	9500	NS	NS	NS
2/16/2011	Black Soil on Trench Wall	2	22.8	48	NS	NS	NS
2/25/2011	Composite	1	1600	NS	NS	NS	NS
2/25/2011	Bottom	2	797	NS	NS	NS	NS
2/25/2011	North Wall	3	1290	NS	NS	NS	NS
2/25/2011	East Wall	4	ND	44	NS	NS	NS
2/25/2011	South Wall	5	ND	28	NS	NS	NS
2/25/2011	West Wall	6	37.4	124	184	NS	NS
2/25/2011	Bottom 2	7	997	1960	515	0.2	21.5
2/25/2011	North Wall 2	8	536	144	68.3	0.025	4.43
3/3/2011	West Wall 5pt Comp	1	14.2	52	NS	NS	NS

*Values in **BOLD** above regulatory limits

*NS - Parameter not sampled

*ND - Parameter not detected

Client: Conoco Phillips



Location No: 92115-1596
C.O.C. No:

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 1 OF 1

LOCATION: NAME: C. separator Martin WELL #: 1E
QUAD/UNIT: SEC: 31 TWP: 32N RNG: 12W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: CONTRACTOR: N/A

DATE STARTED: 2-16-11

DATE FINISHED:

ENVIRONMENTAL

SPECIALIST: Burr

EXCAVATION APPROX: 14 FT. X 3 FT. X 3 FT. DEEP CUBIC YARDAGE:

DISPOSAL FACILITY:

REMEDIAL METHOD: Removal

LAND USE: Grain

LEASE:

LAND OWNER:

CAUSE OF RELEASE: Pipeline leak

MATERIAL RELEASED: Condensate

SPILL LOCATED APPROXIMATELY: FT. 30 FROM Wellhead

DEPTH TO GROUNDWATER: > 100 NEAREST WATER SOURCE: 7000 NEAREST SURFACE WATER: 600

NMOC D RANKING SCORE: 20 NMOC D TPH CLOSURE STD: 100 PPM

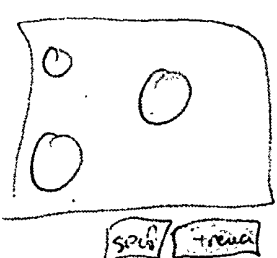

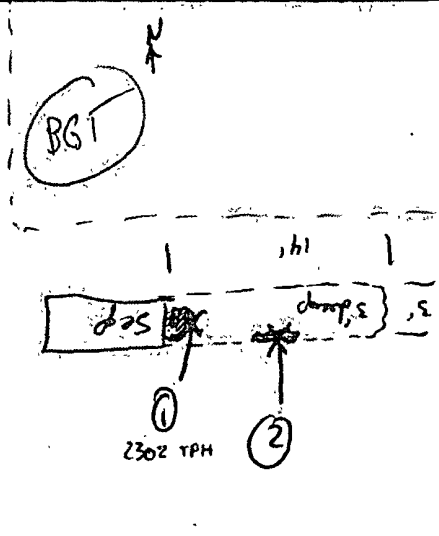
SOIL AND EXCAVATION DESCRIPTION: 20000 Initial Reading 2000 = 0
collected sample # 1 for further guidance from Kelsi (cont)

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
200 STD	11:01	STD	-	-	-	-	204	
Separator Pipe hole	11:12	①	-	5	20	4	2376	4504
Black soil on travel well	11:21	②	-	5	20	4	12	48

SPILL PERIMETER

OVN RESULTS

SPILL PROFILE

 	<table><tr><th>SAMPLE ID</th><th>FIELD HEADSPACE PID (ppm)</th></tr><tr><td>①</td><td>2302</td></tr><tr><td>②</td><td>22.8</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></table>	SAMPLE ID	FIELD HEADSPACE PID (ppm)	①	2302	②	22.8																							
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SAMPLE ID	ANALYSIS	TIME																												

RAVEL NOTES: _____ CALLED OUT: _____ ONSITE: @ 10:30 left 11:45



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-1596
Sample No.:	1	Date Reported:	3/14/2011
Sample ID:	Separator Pipe Hole	Date Sampled:	2/16/2011
Sample Matrix:	Soil	Date Analyzed:	2/16/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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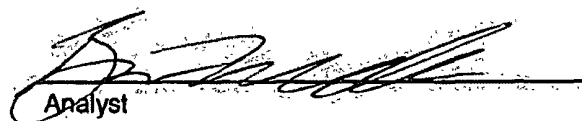
Total Petroleum Hydrocarbons	9,500	5.0
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ND = Parameter not detected at the stated detection limit.

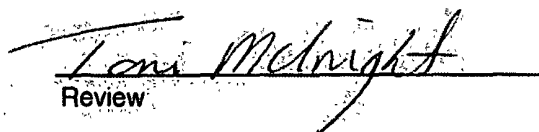
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Culpepper Martin #1E (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson
Printed


Review

Toni McKnight, EIT
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-1596
Sample No.:	2	Date Reported:	3/14/2011
Sample ID:	Black Soil on Trench Wall	Date Sampled:	2/16/2011
Sample Matrix:	Soil	Date Analyzed:	2/16/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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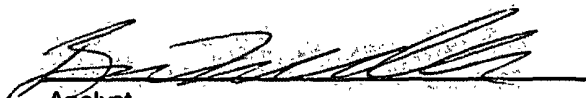
Total Petroleum Hydrocarbons	48	5.0
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ND = Parameter not detected at the stated detection limit.


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

Comments: Culpepper Martin #1E (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson
Printed


Review

Toni McKnight, EIT
Printed



CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 16-Feb-11

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	204
	200	
	500	
	1000	

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


Analyst

Barian Williamson

Print Name


Review

Toni McKnight, EIT

Print Name

3/14/2011

Date

3/14/2011

Date

Client: CONOCO 92115-1596	 envirotech (505) 632-0615 (800) 382-1879 6796 U.S. Hwy 64, Farmington, NM 87401	Location No: C.O.C. No:
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FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: <u>1</u> OF <u>1</u>
DATE STARTED: <u>2/25/11</u>
DATE FINISHED:
ENVIRONMENTAL
SPECIALIST: <u>JLM 2/25/11</u>

LOCATION: NAME: Culpepper Martin WELL#: 1E
 QUAD/UNIT: SE/SE SEC: 31 TWP: 32N RNG: 12W PM: NM CNTY: SJ ST: NM
 QTR/FOOTAGE: 1110' FSL 830' FEL CONTRACTOR: CF & M

EXCAVATION APPROX: 23 FT. X 13 FT. X 6 FT. DEEP CUBIC YARDAGE:
 DISPOSAL FACILITY: IEF REMEDIATION METHOD: LAND FARM
 LAND USE: GRAZING LEASE: LAND OWNER:
 CAUSE OF RELEASE: Leaking Pipeline MATERIAL RELEASED: Condensate

SPILL LOCATED APPROXIMATELY: FT. 3' FROM Wellhead
 DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: <200'
 NMOCD RANKING SCORE: 20 NMOCD TPH CLOSURE STD: 100 PPM

SOIL AND EXCAVATION DESCRIPTION:

GPS = N 36.938350
W 108.130228

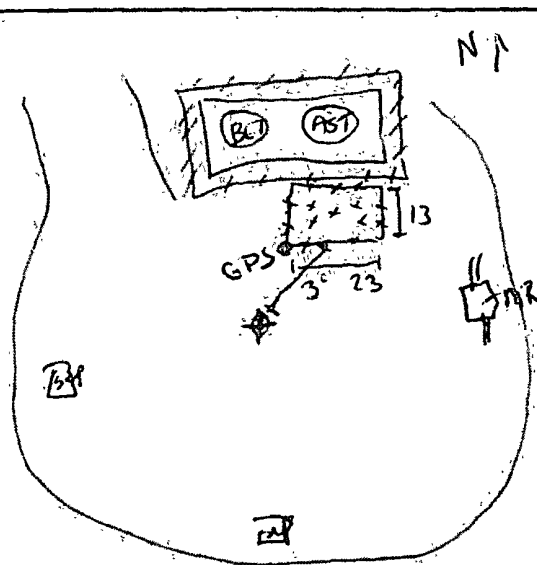
Maximum Extents Reached at Bottom due to bedrock.

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
200 STD	9:45	—	—	—	—	—	210	—
EAST WALL	10:21	EAST WALL	—	5	20	4	11	44
SOUTH WALL	10:19	SOUTH WALL	—	5	20	4	07	28
WEST WALL	10:23	WEST WALL	1	5	20	4	31	124
Bottom 2	11:12	Bottom 2	2	5	20	4	490	1960
NORTH WALL	11:28	NORTH WALL	—	5	20	4	36	144

SPILL PERIMETER

OVM RESULTS

SPILL PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
COMPASS	1601
Bottom	797
North Wall	1243
East Wall	0.0
South Wall	0.0
West Wall	37.4
STD 100	91

Bottom 2 = 997
 No 2TH WALL 2 = 536

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

RAVEL NOTES: _____ CALLED OUT: _____ ONSITE: _____



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

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

Project #: 92115-1596
Date Reported: 3/14/2011
Date Sampled: 2/25/2011
Date Analyzed: 2/25/2011
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	44	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: Culpepper Martin #1E (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Toni McKnight, EIT
Printed


Review

Robyn Jones, 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 #: 92115-1596
Date Reported: 3/14/2011
Date Sampled: 2/25/2011
Date Analyzed: 2/25/2011
Analysis Needed: TPH-418.1

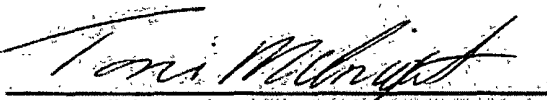
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	28	5.0

ND = Parameter not detected at the stated detection limit.

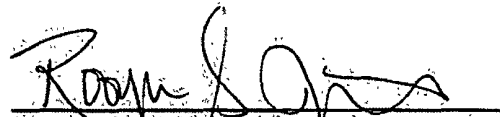
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Culpepper Martin #1E (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Toni McKnight, EIT
Printed


Review

Robyn Jones, EIT
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

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

Project #: 92115-1596
Date Reported: 3/14/2011
Date Sampled: 2/25/2011
Date Analyzed: 2/25/2011
Analysis Needed: TPH-418.1

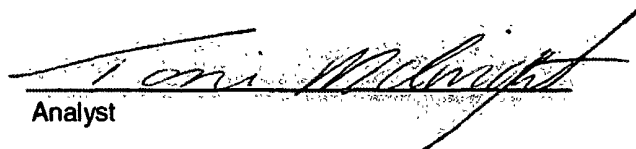
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	124	5.0

ND = Parameter not detected at the stated detection limit.

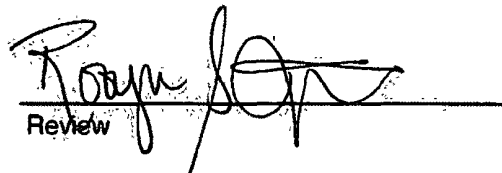
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Culpepper Martin #1E (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Toni McKnight, EIT
Printed


Review

Robyn Jones, EIT
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

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

Project #: 92115-1596
Date Reported: 3/14/2011
Date Sampled: 2/25/2011
Date Analyzed: 2/25/2011
Analysis Needed: TPH-418.1

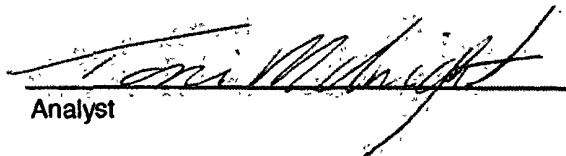
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	1,960	5.0

ND = Parameter not detected at the stated detection limit.

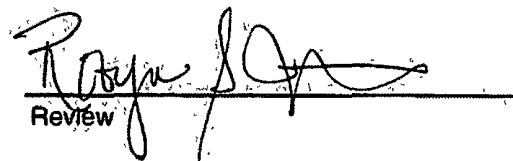
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Culpepper Martin #1E (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Toni McKnight, EIT
Printed


Review

Robyn Jones, EIT
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips
Sample No.: 5
Sample ID: North Wall 2
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-1596
Date Reported: 3/14/2011
Date Sampled: 2/25/2011
Date Analyzed: 2/25/2011
Analysis Needed: TPH-418.1

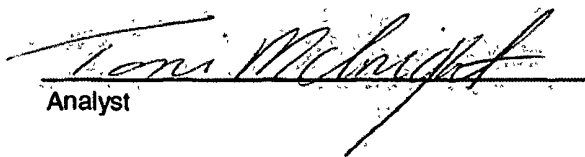
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	144	5.0

ND = Parameter not detected at the stated detection limit.

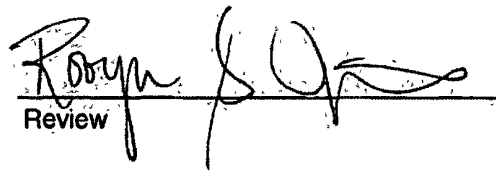
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Culpepper Martin #1E (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Toni McKnight, EIT
Printed


Review

Robyn Jones, EIT
Printed



CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 25-Feb-11

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	210
	200	
	500	
	1000	

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


Analyst

3/14/2011
Date

Toni McKnight, EIT

Print Name


Review

3/14/2011
Date

Robyn Jones, EIT

Print Name



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips
Sample No.: 1
Sample ID: West Wall 5pt Composite
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-1596
Date Reported: 4/4/2011
Date Sampled: 3/3/2011
Date Analyzed: 3/3/2011
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	52	5.0

ND = Parameter not detected at the stated detection limit.

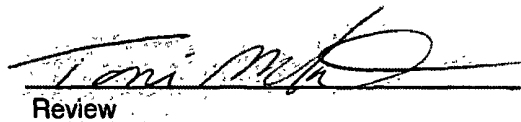
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Culpepper Martin #1E (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Scott Gonzales
Printed


Review

Toni McKnight, EIT
Printed



CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 3-Mar-11


Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	202
	500	
	1000	

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


Analyst

Scott Gonzales

Print Name


Review

Toni McKnight, EIT

Print Name

4/4/2011
Date

4/4/2011
Date



envirotech
Analytical Laboratory

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

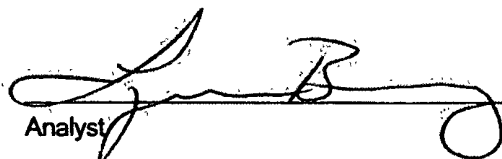
Client:	ConocoPhillips	Project #:	92115-1596
Sample ID:	North Wall 2	Date Reported:	02-28-11
Laboratory Number:	57367	Date Sampled:	02-25-11
Chain of Custody No:	11244	Date Received:	02-25-11
Sample Matrix:	Soil	Date Extracted:	02-28-11
Preservative:	Cool	Date Analyzed:	02-28-11
Condition:	Intact	Analysis Requested:	8015 TPH

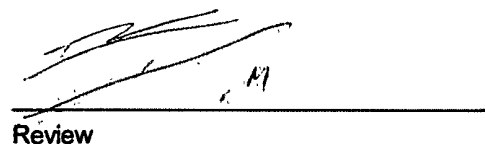
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	56.7	0.2
Diesel Range (C10 - C28)	11.6	0.1
Total Petroleum Hydrocarbons	68.3	

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: Culpepper Martin #1E (hBr)


Analyst


Review



envirotech
Analytical Laboratory

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

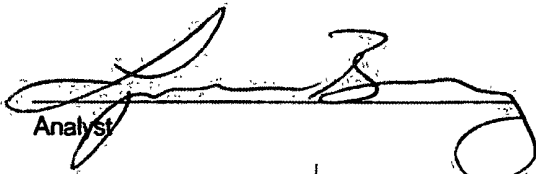
Client:	ConocoPhillips	Project #:	92115-1596
Sample ID:	Bottom 2	Date Reported:	02-28-11
Laboratory Number:	57368	Date Sampled:	02-25-11
Chain of Custody No:	11244	Date Received:	02-25-11
Sample Matrix:	Soil	Date Extracted:	02-28-11
Preservative:	Cool	Date Analyzed:	02-28-11
Condition:	Intact	Analysis Requested:	8015 TPH

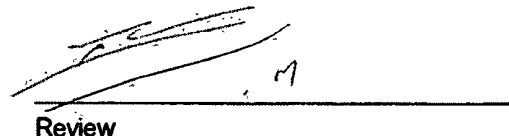
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	370	0.2
Diesel Range (C10 - C28)	145	0.1
Total Petroleum Hydrocarbons	515	

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: Culpepper Martin #1E (hBr)


Analyst


Review

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

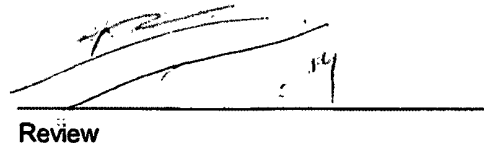
Client:	ConocoPhillips	Project #:	92115-1596
Sample ID:	West Wall	Date Reported:	02-28-11
Laboratory Number:	57369	Date Sampled:	02-25-11
Chain of Custody No:	11244	Date Received:	02-25-11
Sample Matrix:	Soil	Date Extracted:	02-28-11
Preservative:	Cool	Date Analyzed:	02-28-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	154	0.2
Diesel Range (C10 - C28)	29.9	0.1
Total Petroleum Hydrocarbons	184	

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: Culpepper Martin #1E (hBr)


Analyst
Review

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

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	02-28-11 QA/QC	Date Reported:	02-28-11
Laboratory Number:	57365	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-28-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	02-28-11	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	02-28-11	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

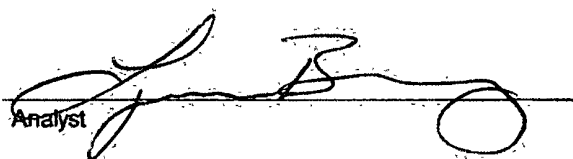
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

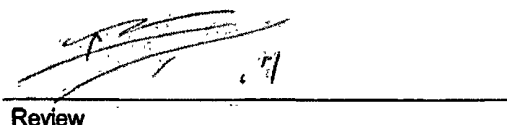
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	258	103%	75 - 125%
Diesel Range C10 - C28	ND	250	253	101%	75 - 125%

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for Samples 57364-57365, 57367-57373, 57394


 Analyst


 Review



envirotech
Analytical Laboratory

**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	ConocoPhillips	Project #:	92115-1596
Sample ID:	North Wall 2	Date Reported:	02-28-11
Laboratory Number:	57367	Date Sampled:	02-25-11
Chain of Custody:	11244	Date Received:	02-25-11
Sample Matrix:	Soil	Date Analyzed:	02-28-11
Preservative:	Cool	Date Extracted:	02-28-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	25.1	0.9
Toluene	1,050	1.0
Ethylbenzene	309	1.0
p,m-Xylene	2,650	1.2
o-Xylene	392	0.9
Total BTEX	4,430	

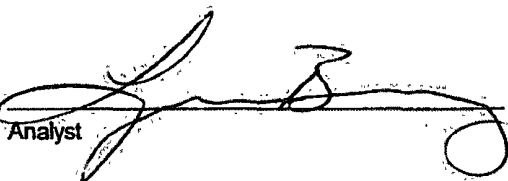
ND - Parameter not detected at the stated detection limit.

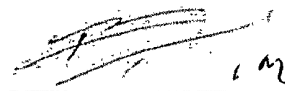
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.3 %
	1,4-difluorobenzene	96.5 %
	Bromochlorobenzene	85.7 %

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: Culpepper Martin #1E (hBr)

Analyst 


Review

Client:	ConocoPhillips	Project #:	92115-1596
Sample ID:	Bottom 2	Date Reported:	02-28-11
Laboratory Number:	57368	Date Sampled:	02-25-11
Chain of Custody:	11244	Date Received:	02-25-11
Sample Matrix:	Soil	Date Analyzed:	02-28-11
Preservative:	Cool	Date Extracted:	02-28-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	200	0.9
Toluene	5,140	1.0
Ethylbenzene	1,150	1.0
p,m-Xylene	13,000	1.2
o-Xylene	1,980	0.9
Total BTEX	21,500	

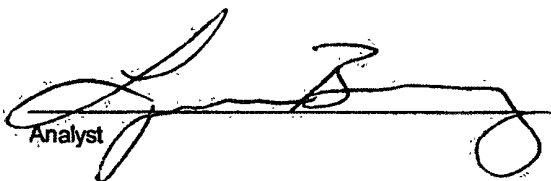
ND - Parameter not detected at the stated detection limit.

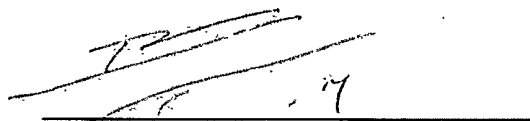
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	102 %
	1,4-difluorobenzene	103 %
	Bromochlorobenzene	104 %

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: Culpepper Martin #1E (hBr)


 Analyst


 Review

Client:	N/A	Project #:	N/A
Sample ID:	0228BBLK QA/QC	Date Reported:	02-28-11
Laboratory Number:	57364	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-28-11
Condition:	N/A	Analysis:	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept. Range 0 - 15%			
Benzene	1.3918E+005	1.3946E+005	0.2%	ND	0.1
Toluene	1.5480E+005	1.5511E+005	0.2%	ND	0.1
Ethylbenzene	1.3348E+005	1.3375E+005	0.2%	ND	0.1
p,m-Xylene	3.0206E+005	3.0266E+005	0.2%	ND	0.1
o-Xylene	1.3017E+005	1.3043E+005	0.2%	ND	0.1

Duplicate Conc: (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect 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: (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	536	107%	39 - 150
Toluene	ND	500	520	104%	46 - 148
Ethylbenzene	ND	500	516	103%	32 - 160
p,m-Xylene	ND	1000	1,040	104%	46 - 148
o-Xylene	ND	500	501	100%	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

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 57364-57365, 57367-57368, 57370-57373, 57254, 57260

Analyst

Review

* RUSH *

CHAIN OF CUSTODY RECORD

11244

Client: CONOCO PHILLIPS			Project Name / Location: CULPEPPER MARTIN #1 E (HBA)			ANALYSIS / PARAMETERS															
Client Address:			Sampler Name: TOMIE MCKNIGHT			TPH (Method 8015) <input checked="" type="checkbox"/> BTEX (Method 8021) <input checked="" type="checkbox"/> VOC (Method 8260) <input checked="" type="checkbox"/> RCRA 8 Metals <input type="checkbox"/> Cation / Anion <input type="checkbox"/> RCI <input type="checkbox"/> TCLP with H/P <input type="checkbox"/> PAH <input type="checkbox"/> TPH (418.1) <input type="checkbox"/> CHLORIDE <input type="checkbox"/> Sample Cool <input type="checkbox"/> Sample Intact <input type="checkbox"/>															
Client Phone No.:			Client No.: 92 115-1596																		
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	
North wall 2	2/25/11	11:28	57367	Soil Solid	1/402				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									Y	Y
Bottom 2	2/25/11	11:12	57368	Soil Solid	1/402				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									Y	Y
West wall	2/25/11	10:13	57369	Soil Solid	1/402				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										Y	Y
				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																
				Soil Solid	Sludge Aqueous																
Relinquished by: (Signature) <i>Tomi McKnight</i>					Date 2/25/11	Time 13:30	Received by: (Signature) <i>TRENTON KROLL</i>					Date 2/25/11	Time 13:30								
Relinquished by: (Signature)							Received by: (Signature)														
Relinquished by: (Signature)							Received by: (Signature)														

* RUSH *



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



March 8, 2011

Job No. 92115-1596

Mr. James Howard
Conoco Phillips
3401 30th Street
Farmington, New Mexico 87401

Email: james.a.howard@conocophillips.com

Mobile: (505) 486-3843
Phone: (505) 599-3472

RE: ASBESTOS SAMPLING REPORT FOR THE CULPEPPER MARTINE #1E (hBr) LOCATED IN SAN JUAN COUNTY, NEW MEXICO

Dear Mr. Howard,

On March 4, 2011, Certified Asbestos Inspector Donald Ortiz, Certification No. 011111-01 collected two (2) samples of suspect Asbestos Containing Material (ACM) from the Upper and Lower Pipes on the Culpepper Martin #1E located in San Juan County, New Mexico.

The samples were shipped priority overnight under Chain-of-Custody Record No. 97216 to EMC Laboratory, Inc. in Phoenix, Arizona; EMC Laboratory is a National Voluntary Laboratory Accreditation Program (NVLAP) Accredited Asbestos Analytical Laboratory, (Accreditation No. 101926-0).

The following table shows a breakdown of the analysis:

Lab ID#	Location / Layer	Description	Asbestos Detected
O-5183	Upper Pipe-Layer 1	Pipe Wrap – Inner, Black	None
	<i>Upper Pipe-Layer 2</i>	<i>Pipe Wrap – Outer, Black/Brown</i>	<i>35% Chrysotile</i>
O-5184	Lower Pipe-Layer 1	Pipe Wrap – Inner, Black	None
	<i>Lower Pipe-Layer 2</i>	<i>Pipe Wrap – Outer, Black/Brown</i>	<i>30% Chrysotile</i>

As per the attached analytical results, *the two (2) samples of brown/black outer pipe wrap collected from the Culpepper Martin #1E (hBr) detected 30% to 35% Chrysotile Asbestos and resulted in a total of 4 separate layers.* Anything over 1% Asbestos is a regulated material per USEPA regulations. USEPA Trained and Certified Asbestos Workers must perform any disturbance or removal of the ACM.

We appreciate the opportunity to provide service and look forward to working with you in the future. If you should require additional information or have any questions, please contact our office at (505) 632-0615.

Sincerely,

ENVIROTECH, INC.

Donald P. Ortiz
Field Operations Manager
dortiz@envirotech-inc.com

Attachment: Analytical Results

EMC LABS, INC.

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

Laboratory Report

0097216

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	ENVIROTECH	Job# / P.O. #:	92115-1596	1128
Address:	5796 HIGHWAY 64-3014	Date Received:	03/08/2011	
	FARMINGTON NM 87401	Date Analyzed:	03/08/2011	
Collected:	03/04/2011	Date Reported:	03/08/2011	
Project Name/	CONOCO PHILLIPS (hBr)/CULPEPPER	EPA Method:	EPA 600/M4-82-020	
	MARTIN #1E			
Address:		Submitted By:	DONALD ORTIZ	
		Collected By:	Customer	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0097216-001 0-5183		LAYER 1	No		Fibrous Glass 30%
		Pipe Wrap - Inner, Black			Quartz Binder/Filler 70%
		LAYER 2			Fibrous Glass 5%
		Pipe Wrap - Outer, Black/ Brown			Quartz Binder/Filler 60%
0097216-002 0-5184		LAYER 1	No		Fibrous Glass 30%
		Pipe Wrap - Inner, Black			Quartz Binder/Filler 70%
		LAYER 2			Fibrous Glass 5%
		Pipe Wrap - Outer, Black/ Brown			Cellulose Fiber 5%
					Quartz Binder/Filler 60%


Analyst - Johann Hofer


Signatory - Lab Director - Kurt Kettler

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernable layer. All analyses are derived from calibrated visual estimate and measured in weight percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. These reports are for the exclusive use of the addressed client and that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. The report shall not be reproduced except in full, without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately <1% by weight. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test method for asbestos. The accreditation or any reports generated by this laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The report must not be used by any entity to claim product endorsement by NVLAP or any agency of the U.S. Government. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.

CHAIN OF CUSTODY

EIMC Laboratories
9830 S. 51ST St., Ste B-109
Phoenix, AZ 85044
(800) 362-3373 Fax (480) 893-1726

LAB#: 97216
TAT: Rush
Rec'd: MAR 08 AM.

COMPANY NAME: ENVIROTECH

BILL TO: (If Different Location)

5796 US Hwy 64

Farmington, NM 87401

CONTACT:

Rocky Martinez

Phone/Fax:

505-486-0185 / 505-632-1865

Email:

mmartinez@envirotechinc.com

Now Accepting: VISA - MASTERCARD

Price Quoted: \$ _____ **/ Sample \$** _____ **/ Layers**

COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)

1. TURNAROUND TIME: ☒ 4hr rush ☐ 8hr rush ☐ 1-Day ☐ 2-day ☐ 3-day ☐ 5-Day ☐ 6-10 Day

*****Prior confirmation of turnaround time is required**

***Additional charges for rush analysis (please call marketing department for pricing details)

***Laboratory analysis may be subject to delay if credit terms are not met

2. TYPE OF ANALYSIS: ☒ Bulk-PLM ☐ Air-PCM ☐ Lead ☐ Point Count ☐ Fungl: AOC, W-C, Bulk, Swab, Tape

3. DISPOSAL INSTRUCTIONS: [Dispose of samples at EMC] / [Return samples to me at my expense]

(If you do not indicate preference, EMC will dispose of samples 60 days from analysis.)

4. Project Name: Conoco Phillips (hBr) / Culpepper Martin #1E

P.O. Number: 1128

Project Number:

92115-1596

[illegible]

SPECIAL INSTRUCTIONS:

Sample Collector: (Print) Donald Ortiz

(Signature) Donald P. Ortiz / K/N

Relinquished by: Rocky Martinez Date/Time: 03/07/11 9:12AM Received by: [Signature] Date/Time: 3/8/11

Relinquished by: A. Torre Date/Time: 3/8/11 Received by: Sam. J. D'Amico Date/Time: 3-8-11

Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____

** In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs. DPO