

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

30-045-33813 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 111S	Facility Type Gas Well API #3004533813
Surface Owner Private	Mineral Owner Private
Lease No.	

LOCATION OF RELEASE

Unit Letter N	Section 33	Township 32N	Range 12W	Feet from the 1160'	North/South Line South	Feet from the 1600'	East/West Line West	County San Juan
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Latitude **36.9383° N** Longitude **-108.10358° W**

NATURE OF RELEASE

Type of Release – Produced Water	Volume of Release – 26.4 BBL	Volume Recovered – 1 BBL
Source of Release: Pit Tank	Date and Hour of Occurrence 10/4/10 10:22 p.m.	Date and Hour of Discovery 10/7/10 9:35 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell (NMOCD): Verbal and follow-up email	
By Whom? Gwen Frost	Date and Hour – 10/7/10 2:30 p.m.	
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.*

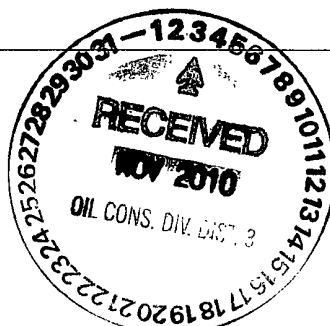
Describe Cause of Problem and Remedial Action Taken.* **On October 7, 2010, it was discovered that the pit tank had overflowed as a result of Multi-Skilled Operator (MSO) negligence. The MSO was terminated. Upon discovery, the well was shut in and a vacuum truck was called to location.**

Describe Area Affected and Cleanup Action Taken.* **All fluid remained within the berm, specifically between the pit and the cribbing. Approximately 1 BBL of fluid was recovered. Confirmation sampling occurred. Analytical results were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases; however due to surface staining the area was hydro-excavated. The final 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: Kelsi Harrington	Approved by District Supervisor: <i>Janeth D. Kelly</i>	
Title: Environmental Consultant	Approval Date: <i>1/30/2011</i>	Expiration Date:
E-mail Address: kelsi.g.harrington@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 12/1/10	Phone: 505-599-3403	

* Attach Additional Sheets If Necessary



n JK1133435721



November 8, 2010

Project Number 92115-1469

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

Phone: (505) 599-3403
Fax: (505) 599-4005

**RE: SPILL ASSESSMENT DOCUMENTATION FOR THE CULPEPPER MARTIN #111S (hBr)
WELL SITE, SAN JUAN COUNTY, NEW MEXICO**

Dear Ms. Harrington,

Enclosed please find the field notes and analytical results for spill assessment activities performed at the Culpepper Martin #111S (hBr) well site located in Section 33, Township 32 North, Range 12 West, San Juan County, New Mexico. Upon Envirotech personnel's arrival on October 18, 2010, a brief site assessment was conducted. Because depth to groundwater was less than 50 feet, 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.

A spill assessment was conducted in order to find the extents of the spilled area. Seven (7) samples were collected from the area below the below-grade tank (BGT) pit where a BGT had overflowed produced water; see enclosed *Field Notes*. Prior to Envirotech personnel's arrival, the BGT had been removed. One (1) five (5)-point composite sample was collected from the surface of the bottom of the BGT pit. One (1) sample was collected at three (3) feet below the bottom of the pit in each of the northwest, southeast, southwest, northeast and center areas of the pit. One (1) sample was collected from the northwest area of the pit at five (5) feet below the bottom of the pit. All of the samples were screened in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID); see enclosed *Analytical Results* and *Summary of Analytical Results*. The extents of the area of the release were determined to be approximately 15 feet by 15 feet by 3 feet below the surface of the pit. The sample collected from the surface of the bottom of the BGT pit was also analyzed for chlorides and returned results of 122 ppm chlorides. Additionally, the sample collected from the surface of the bottom of the BGT pit was placed into a four (4)-ounce glass jar, capped head space 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 benzene and BTEX using USEPA Method 8021. The sample returned results below regulatory standards for all constituents analyzed; see enclosed *Analytical Results*

On October 28, 2010, Envirotech personnel returned to the site for spill closure activities. Due to the surface staining and odor of the contaminated area, the spill was hydro-excavated by Polaris hydro-excavators. The contaminated area was hydro-excavated to the extents of

approximately 15 feet by 15 feet by 3 feet deep. A five (5)-point composite sample was collected from the excavated area and screened in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID); see enclosed *Field Notes*. The sample returned results below regulatory standards for all constituents analyzed; see enclosed *Analytical Results*. Therefore, Envirotech, Inc. recommends no further action in regards to this incident.

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

Respectfully Submitted,
ENVIROTECH, INC.



Scott Gonzales
Senior Environmental Field Technician
sgonzales@envirotech-inc.com

Enclosure(s): Summary of Analytical Results
Analytical Results
Field Notes

Cc: Client File 92115

Table 1, Summary of Analytical Results

ConocoPhillips
 Culpepper Martin #111S (hBr)
 Confirmation Sampling Report
 Project Number 92115-1469

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
10/18/2010	5-pt. Surface Composite	1	495	1940	23.1	ND	0.386
10/18/2010	Northwest 3 Feet Deep	2	309	1244	NS	NS	NS
10/18/2010	Northwest 5 Feet Deep	3	238	1140	NS	NS	NS
10/18/2010	Southeast 3 Feet Deep	4	9.3	72	NS	NS	NS
10/18/2010	Southwest 3 Feet Deep	5	35.2	48	NS	NS	NS
10/18/2010	Northeast 3 Feet Deep	6	13.2	84	NS	NS	NS
10/18/2010	Center 3 Feet Deep	7	27.7	80	NS	NS	NS
10/28/2010	5-pt. Composite 3 Feet Deep	1	21.1	72	NS	NS	NS

*Values in **BOLD** above regulatory limits

*NS - Parameter not sampled

*ND - Parameter not detected

Closure Samples Highlighted



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips Project #: 92115-1469
Sample No.: 1 Date Reported: 10/22/2010
Sample ID: 5-pt. Surface Composite Date Sampled: 10/18/2010
Sample Matrix: Soil Date Analyzed: 10/18/2010
Preservative: Cool Analysis Needed: TPH-418.1
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	1,940	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 #111S (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Scott Gonzales
Printed


Review

Sarah Rowland, EIT
Printed



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1469
Sample No.:	2	Date Reported:	10/28/2010
Sample ID:	Northwest 3 Feet Deep	Date Sampled:	10/18/2010
Sample Matrix:	Soil	Date Analyzed:	10/18/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

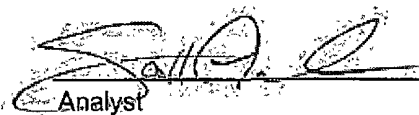
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	1,240	5.0

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.

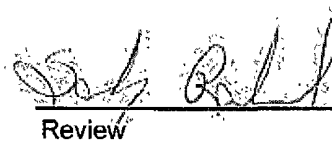
Comments: **Culpepper Martin #111S (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample



Analyst

Scott Gonzales
Printed



Review

Sarah Rowland, EIT
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips Project #: 92115-1469
Sample No.: 3 Date Reported: 10/28/2010
Sample ID: Northwest 5 Feet Deep Date Sampled: 10/18/2010
Sample Matrix: Soil Date Analyzed: 10/18/2010
Preservative: Cool Analysis Needed: TPH-418.1
Condition: Cool and Intact


Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	1,140	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 #111S (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample



Analyst

Scott Gonzales

Printed



Review

Sarah Rowland, EIT

Printed



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client: ConocoPhillips Project #: 92115-1469
Sample No.: 4 Date Reported: 10/28/2010
Sample ID: Southeast 3 Feet Deep Date Sampled: 10/18/2010
Sample Matrix: Soil Date Analyzed: 10/18/2010
Preservative: Cool Analysis Needed: TPH-418.1
Condition: Cool and Intact


Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	72	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 #111S (hBr)**


Instrument calibrated to 200 ppm standard. Zeroed before each sample



Analyst

Scott Gonzales

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Sarah Rowland, EIT

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1469
Sample No.:	5	Date Reported:	10/28/2010
Sample ID:	Southwest 3 Feet Deep	Date Sampled:	10/18/2010
Sample Matrix:	Soil	Date Analyzed:	10/18/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		


Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	48	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 #111S (hBr)**


Instrument calibrated to 200 ppm standard. Zeroed before each sample



Analyst

Scott Gonzales

Printed



Review

Sarah Rowland, EIT

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**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips Project #: 92115-1469
Sample No.: 6 Date Reported: 10/22/2010
Sample ID: Northeast 3 Feet Deep Date Sampled: 10/18/2010
Sample Matrix: Soil Date Analyzed: 10/18/2010
Preservative: Cool Analysis Needed: TPH-418.1
Condition: Cool and Intact

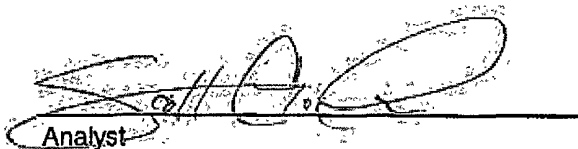
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	80	5.0

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 #111S (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Scott Gonzales
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Review

Sarah Rowland, EIT
Printed



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1469
Sample No.:	7	Date Reported:	10/22/2010
Sample ID:	Center 3 Feet Deep	Date Sampled:	10/18/2010
Sample Matrix:	Soil	Date Analyzed:	10/18/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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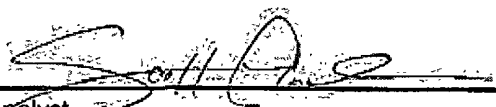
Total Petroleum Hydrocarbons	84	5.0
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ND = Parameter not detected at the stated detection limit.

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

Comments: **Culpepper Martin #111S (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample



 Analyst



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Scott Gonzales

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Sarah Rowland, EIT

 Printed



Cal. Date: 18-Oct-10

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	203
	200	
	500	
	1000	

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


 Analyst

10/22/2010
 Date

Scott Gonzales
 Print Name


 Review

10/22/2010
 Date

Sarah Rowland, EIT
 Print Name



Field Chloride

Client: ConocoPhillips Project #: 92115-1469
Sample No.: 1 Date Reported: 10/22/2010
Sample ID: 5-pt. Surface Composite Date Sampled: 10/18/2010
Sample Matrix: Soil Date Analyzed: 10/18/2010
Preservative: Cool Analysis Needed: Chloride
Condition: Cool and Intact

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Field Chloride	122	33.0

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

Comments: **Culpepper Martin #111S (hBr)**



Analyst

Scott Gonzales

Printed



Review

Sarah Rowland, EIT

Printed



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1469
Sample No.:	1	Date Reported:	10/28/2010
Sample ID:	5 pt. Comp	Date Sampled:	10/28/2010
Sample Matrix:	Soil	Date Analyzed:	10/28/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	72	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 #111S (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample



Analyst

Scott Gonzales

Printed



Review

Sarah Rowland, EIT

Printed

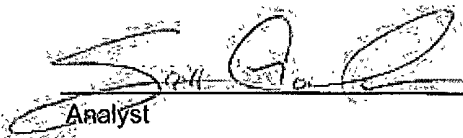


CONTINUOUS CALIBRATION
 EPA METHOD 418.1
 TOTAL PETROLEUM
 HYDROCARBONS

Cal. Date: 28-Oct-10

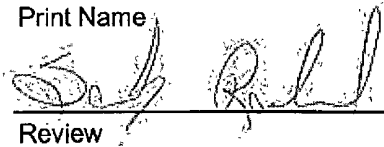
Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	184
	180	
	500	
	1000	

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


 Analyst

10/28/2010
 Date

Scott Gonzales
 Print Name


 Review

10/28/2010
 Date

Sarah Rowland, EIT
 Print Name



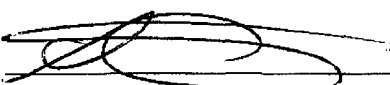
Client:	ConocoPhillips (hBr)	Project #:	92115-1469
Sample ID:	5 Pt Surface Composite	Date Reported:	10-20-10
Laboratory Number:	56247	Date Sampled:	10-18-10
Chain of Custody No:	10553	Date Received:	10-19-10
Sample Matrix:	Soil	Date Extracted:	10-19-10
Preservative:	Cool	Date Analyzed:	10-20-10
Condition:	Intact	Analysis Requested:	8015 TPH


Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	15.7	0.2
Diesel Range (C10 - C28)	7.4	0.1
Total Petroleum Hydrocarbons	23.1	

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 111S**


Analyst


Review



Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	10-20-10 QA/QC	Date Reported:	10-20-10
Laboratory Number:	56247	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-20-10
Condition:	N/A	Analysis Requested:	TPH

	Cal Date	Cal RE	Cal RE	% Difference	Accept Range
Gasoline Range C5 - C10	10-20-10	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	10-20-10	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

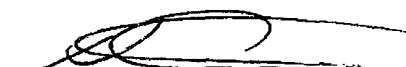
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	15.7	15.6	0.6%	0 - 30%
Diesel Range C10 - C28	7.4	7.5	1.4%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	15.7	250	273	103%	75 - 125%
Diesel Range C10 - C28	7.4	250	260	101%	75 - 125%

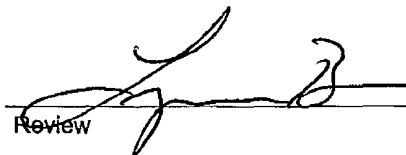
ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for Samples 56247, 56250, 56254



Analyst



Review



Client:	ConocoPhillips (hBr)	Project #:	92115-1469
Sample ID:	5 Pt Surface Composite	Date Reported:	10-20-10
Laboratory Number:	56247	Date Sampled:	10-18-10
Chain of Custody:	10553	Date Received:	10-19-10
Sample Matrix:	Soil	Date Analyzed:	10-20-10
Preservative:	Cool	Date Extracted:	10-19-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	2.1	1.0
Ethylbenzene	11.4	1.0
p,m-Xylene	287	1.2
o-Xylene	85.7	0.9
Total BTEX	386	

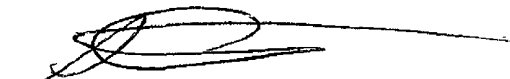
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	100 %
	1,4-difluorobenzene	100 %
	Bromochlorobenzene	101 %

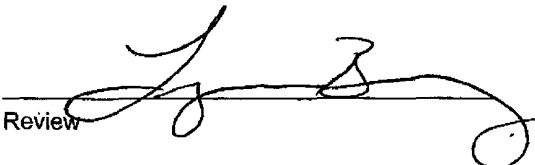
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Culpepper 111S**



Analyst



Review



envirotech

Analytical Laboratory

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	1020BBLK QA/QC	Date Reported:	10-20-10
Laboratory Number:	56247	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-20-10
Condition:	N/A	Analysis:	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	E-Cal IRF	C-Cal IRF	% Diff	Blank Conc	Detect Limit
		Accept Range: 0 - 15%			
Benzene	5.2116E+005	5.2220E+005	0.2%	ND	0.1
Toluene	6.0182E+005	6.0302E+005	0.2%	ND	0.1
Ethylbenzene	5.3555E+005	5.3662E+005	0.2%	ND	0.1
p,m-Xylene	1.2536E+006	1.2562E+006	0.2%	ND	0.1
o-Xylene	4.8282E+005	4.8378E+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	2.1	2.0	4.8%	0 - 30%	1.0
Ethylbenzene	11.4	12.4	8.8%	0 - 30%	1.0
p,m-Xylene	287	291	1.3%	0 - 30%	1.2
o-Xylene	85.7	82.6	3.6%	0 - 30%	0.9


Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	502	100%	39 - 150
Toluene	2.1	500	508	101%	46 - 148
Ethylbenzene	11.4	500	513	100%	32 - 160
p,m-Xylene	287	1000	1,270	98.7%	46 - 148
o-Xylene	85.7	500	573	97.9%	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 56247, 56250 and 56254



Analyst



Review

CHAIN OF CUSTODY RECORD

10553

Client: COPL (hBr)		Project Name / Location: (Nipepper 111 S)		ANALYSIS / PARAMETERS											
Client Address:		Sampler Name: Scott Gonzales		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	FCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact
Client Phone No.:		Client No.: 92115-1469													

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	FCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact	
						HgCl ₂	HCl													
5-Pt. Surface Composite	10-18-10	17:00	510247	(Soil) Solid Sludge Aqueous	1 4-0Z			X	X										X	X
				Soil Solid Sludge Aqueous																
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Relinquished by: (Signature) <i>Jesse W...</i>	Date 10-19-10	Time 9:52	Received by: (Signature) <i>[Signature]</i>	Date 10/19/10	Time 9:52
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



Client:

Location No:

C.O.C. No:

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: _____ OF _____

DATE STARTED: 10-18-10

DATE FINISHED:

LOCATION: NAME: Culpeper Martin WELL #: 1113
 QUAD/UNIT: N SEC: 33 TWP: 32N RNG: 12W PM: NMPM CNTY: 53 ST: NM
 QTR/FOOTAGE: 1110' FSL + 1000' FWL CONTRACTOR:

ENVIRONMENTAL SPECIALIST: SG

EXCAVATION APPROX: _____ FT. X _____ FT. X _____ FT. DEEP CUBIC YARDAGE:

DISPOSAL FACILITY: _____ REMEDIATION METHOD:

LAND USE: _____ LEASE: Fee LAND OWNER: Private

CAUSE OF RELEASE: BGT overflow MATERIAL RELEASED: produced water

SPILL LOCATED APPROXIMATELY: 69 FT. 315° FROM Wellhead

DEPTH TO GROUNDWATER: < 50' NEAREST WATER SOURCE: 7100' NEAREST SURFACE WATER: < 1000'

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

SOIL AND EXCAVATION DESCRIPTION:

Gips pt. of BGT 36.938526°
 -108.104323°

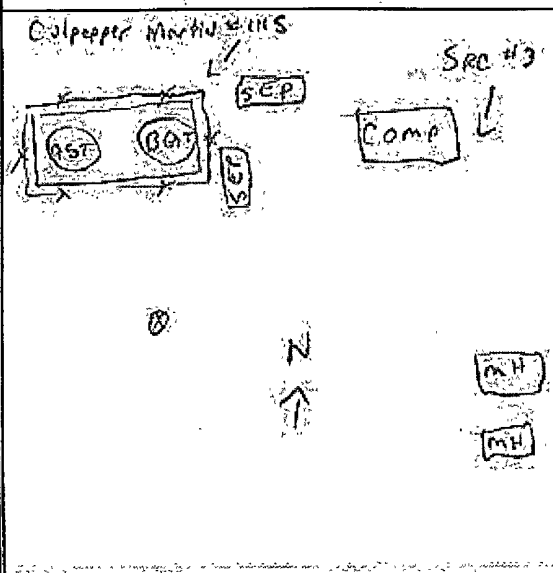
Chloride sample 3.4 x 122 ppm

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
200 sid.	12:00	200 sid.					203	
Sol. Comp	12:15	Sol. Comp	1	5	20	4	485	1940
3' deep North West Corner	15:55	3' deep NW	2	5	20	4	311	1244
NW @ 5' deep	16:30	5' deep NW	3	5	20	4	285	1140
SE @ 3' deep	16:35	SE 3' deep	4	5	20	4	18	72
SW @ 3' deep	16:38	SW 3' deep	5	5	20	4	12	48
NE @ 3' deep	16:41	NE 3' deep	6	5	20	4	20	80
Center of BGT @ 3' deep	16:45	Center 3' deep	7	5	20	4	21	84

SPILL PERIMETER

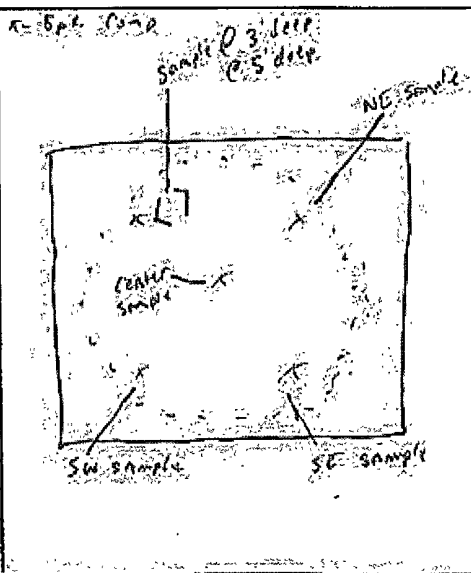
OVN RESULTS

SPILL PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
Sol. Comp	495
3' deep	309
5' deep	298
SE 3' deep	93
SW 3' deep	352
NE 3' deep	132
Center	277

LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME



TRAVEL NOTES: _____ CALLED OUT: _____ ONSITE: _____

Client:	 envirotech (505) 632-0615 (800) 362-1879 5796 U.S. Hwy 64, Farmington, NM 87401	Location No:
		C.O.C. No:

FIELD REPORT: SPILL CLOSURE VERIFICATION	PAGE NO: _____ OF _____
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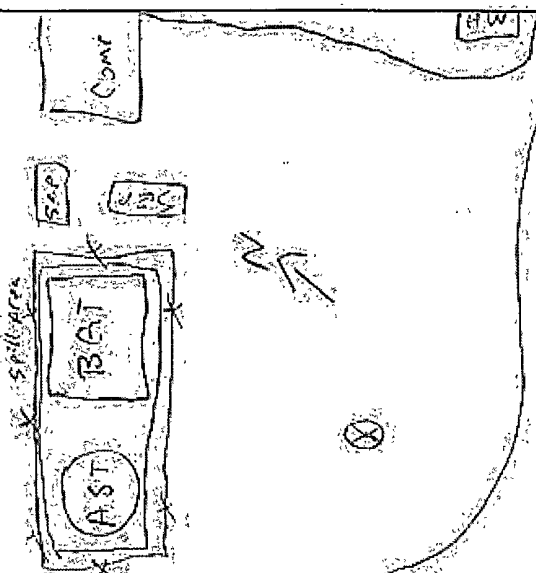
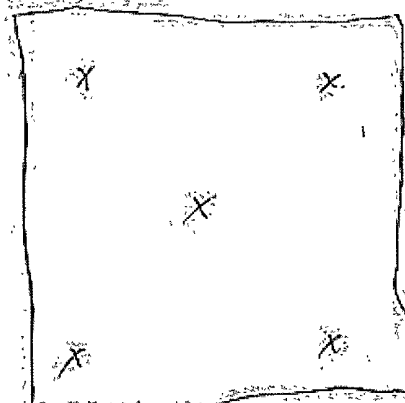
LOCATION: NAME: <u>Culpeper Martin</u> WELL #: <u>1115</u>	DATE STARTED: <u>10-28-10</u>
QUAD/UNIT: _____ SEC: <u>33</u> TWP: <u>32N</u> RNG: <u>2W</u> PM: <u>NMPm</u> CNTY: <u>SD</u> ST: <u>NM</u>	DATE FINISHED: _____
QTR/FOOTAGE: <u>1110 FSL + 1100 FHL</u> CONTRACTOR: <u>Polaris / Conoco</u>	ENVIRONMENTAL SPECIALIST: <u>SG</u>

EXCAVATION APPROX: <u>15</u> FT. X <u>15</u> FT. X <u>3</u> FT. DEEP CUBIC YARDAGE:
DISPOSAL FACILITY: <u>JEI</u> REMEDIATION METHOD: <u>Land farm</u>
LAND USE: _____ LEASE: <u>Fee</u> LAND OWNER: <u>Private</u>
CAUSE OF RELEASE: <u>BGT leak</u> MATERIAL RELEASED: <u>Produced water / incidental oil</u>

SPILL LOCATED APPROXIMATELY: <u>49</u> FT. <u>315</u> FROM wellhead
DEPTH TO GROUNDWATER: <u>5.0'</u> NEAREST WATER SOURCE: _____ NEAREST SURFACE WATER: _____
NMOC D RANKING SCORE: <u>20</u> NMOC D TPH CLOSURE STD: <u>10.0</u> PPM

SOIL AND EXCAVATION DESCRIPTION:

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
<u>180 std.</u>		<u>180 std.</u>					<u>18.4</u>	
<u>Spill Comp Sample</u>	<u>10:05</u>	<u>Spill Comp</u>	<u>1</u>	<u>5</u>	<u>20</u>	<u>4</u>	<u>18</u>	<u>72</u>

SPILL PERIMETER	OVM RESULTS	SPILL PROFILE																	
	<table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE PID (ppm)</th> </tr> </thead> <tbody> <tr> <td><u>Spill Comp</u></td> <td><u>2.1</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> </tbody> </table>	SAMPLE ID	FIELD HEADSPACE PID (ppm)	<u>Spill Comp</u>	<u>2.1</u>														
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TRAVEL NOTES: _____	CALLED OUT: _____	ONSITE: _____
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