

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

30-039-07361

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 San Juan 28-5 Unit 48	Facility Type Gas Well API#3003907361
Surface Owner Federal	Mineral Owner Federal Lease No. SF-079519-A

LOCATION OF RELEASE

Unit Letter M	Section 22	Township 28N	Range 05W	Feet from the 1150'	North/South Line South	Feet from the 850'	East/West Line West	County Rio Arriba
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Latitude **36.64253° N** Longitude **-107.35187° W**

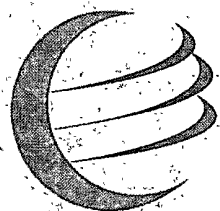
NATURE OF RELEASE

Type of Release – Historic	Volume of Release – Unknown	Volume Recovered –
Source of Release: Above Ground Storage Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 10/10/2010
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.* On October 10, 2010, historic hydrocarbon impacted soil was encountered while removing an above ground storage tank.		
Describe Area Affected and Cleanup Action Taken.* Excavation of approximately 280 cu/yds of impacted soil occurred. Analytical results from confirmation sampling 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>Jonathan D. Kelly</i>	
Title: Environmental Consultant	Approval Date: 11/30/2011	Expiration Date:
E-mail Address: kelsi.g.harrington@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 1/19/11 Phone: 505-599-3403		

* Attach Additional Sheets If Necessary

nJK11 33436487





envirotech

CONFIRMATION SAMPLING REPORT

**LOCATED AT:
CONOCOPHILLIPS
SAN JUAN 28-5 #48 (HBR) WELL SITE
SECTION 22, TOWNSHIP 28 NORTH, RANGE 5 WEST
RIO ARriba COUNTY, NEW MEXICO**

**FOR:
MS. KELSI HARRINGTON
CONOCOPHILLIPS
3401 EAST 30TH STREET
FARMINGTON, NEW MEXICO 87401**

**PROJECT NO. 92115-1470
DECEMBER 2010**



January 17, 2010

Project No. 92115-1470

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

Phone (505) 599-3403
Cell (505) 320-2461

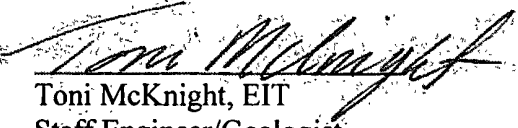
RE: CONFIRMATION SAMPLING REPORT FOR THE SAN JUAN 28-5 #48 (hBr) WELL SITE, RIO ARriba COUNTY, NEW MEXICO

Dear Ms. Harrington:

Attached please find one (1) original copy of the *Confirmation Sampling Report* for the San Juan 28-5 #48 (hBr) well site, located in Section 22, Township 28 North, Range 5 West, Rio Arriba County, New Mexico.

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

Respectfully submitted,
ENVIROTECH, INC.


Toni McKnight, EIT
Staff Engineer/Geologist
tmcknight@envirotech-inc.com

Enclosures: Confirmation Sampling Report

CC: Client File 92115

**CONFIRMATION SAMPLING REPORT
LOCATED AT SAN JUAN 28-5 #48 (HBR)
SECTION 22, TOWNSHIP 28 NORTH, RANGE 5 WEST
RIO ARriba COUNTY, NEW MEXICO**

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INTRODUCTION

Envirotech, Inc. of Farmington, New Mexico, was contracted by ConocoPhillips to provide confirmation sampling activities for a release of condensate from a leaking above ground storage tank (AST) at the San Juan 28-5 #48 (hBr) well site, located in Section 22, Township 28 North, Range 5 West, Rio Arriba County, New Mexico; see **Figure 1, Vicinity Map**. Confirmation activities included sampling and analysis, documentation, and reporting.

ACTIVITIES PERFORMED

On October 15, 2010, Envirotech, Inc. was contacted with a request to conduct confirmation sampling activities due to leaking AST. Upon arrival onsite, a brief site assessment was conducted. The closure standards were determined to be 5,000 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's arrival, approximately three (3) feet to four (4) feet of contaminated soil was removed from the grade-band that the AST had been staged on. One (1) surface composite was collected from the area beneath the grade-band and one (1) composite sample was collected from the contaminated soil pile. Both samples were analyzed in the field for TPH using USEPA Method 8015 and for organic vapors using a photoionization detector (PID). The samples returned results below the regulatory standards for TPH, but above the regulatory standards for organic vapors; see **Table 1, Summary of Analytical Results**. Both samples were collected into four (4)-ounce glass jars, capped headspace free, and transported with ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for benzene and BTEX using USEPA Method 8021. The sample collected from the soil pile returned results below the regulatory standards for benzene and BTEX. The sample collected from the surface returned results below the regulatory standard for benzene, but above the regulatory standard for BTEX; therefore, further investigation was required; see **Appendix A, Analytical Results**.

On October 19, 2010, Envirotech personnel returned to the above location to further assess the area of contamination. Exploratory excavation was conducted by CF and M Construction using a backhoe. Three (3) samples were collected from the exploratory excavation. One (1) sample was collected from three (3) feet below ground surface (BGS), one (1) sample was collected from five (5) feet BGS, and one (1) sample was collected from seven (7) feet BGS, the maximum extent of the backhoe. All three (3) samples were screened in the field for organic vapors using a PID. All three (3) samples were above the regulatory standard for organic vapors; see **Table 1, Summary of Analytical Results**. Excavation of the contaminated soil and confirmation sampling activities was recommended.

On December 7, 2010, Envirotech personnel returned to the above location for confirmation sampling activities. Prior to Envirotech's arrival, the area of release had been excavated to approximately 22 feet by 21 feet by eight (8) feet deep by Kelley Oilfield Services. One (1) five (5)-point composite sample was collected from each of the four (4) walls and the bottom of the excavation and analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors

using PID. The sample returned results below the regulatory standard for TPH, but above the regulatory standard for organic vapors; see *Table 1, Summary of Analytical Results*. The sample was collected into a four (4)-ounce glass jar, capped head space free, and transported with ice, under chain of custody to Envirotech's Analytical Laboratory for analysis for benzene and BTEX using USEPA Method 8021. The sample returned results below the regulatory standards for benzene and BTEX; see *Appendix A, Analytical Results*. Therefore, no further excavation was required.

RECOMMENDATIONS

Envirotech, Inc. recommends no further action in regards to this incident.

SUMMARY AND CONCLUSIONS

Approximately 140 cubic yards of contaminated soil were removed from the San Juan 28-5 #48 (hBr) well site, located in Section 22, Township 28 North, Range 5 West, Rio Arriba County, New Mexico and transported to IEI's NMOCD permitted landfarm remediation facility. Envirotech, Inc. recommends no further action in regards to this incident.

STATEMENT OF LIMITATIONS


Envirotech, Inc. has completed confirmation sampling activities from a release of condensate at the San Juan 28-5 #48 (hBr) well site, Rio Arriba County, New Mexico. The work and services provided by Envirotech were under the current guidelines of the NMOCD. All observations and conclusions provided here are based on the information and current site conditions found at the time 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.


Toni McKnight, EIT
Staff Engineer/Geologist
tmcknight@envirotech-inc.com

Reviewed by:

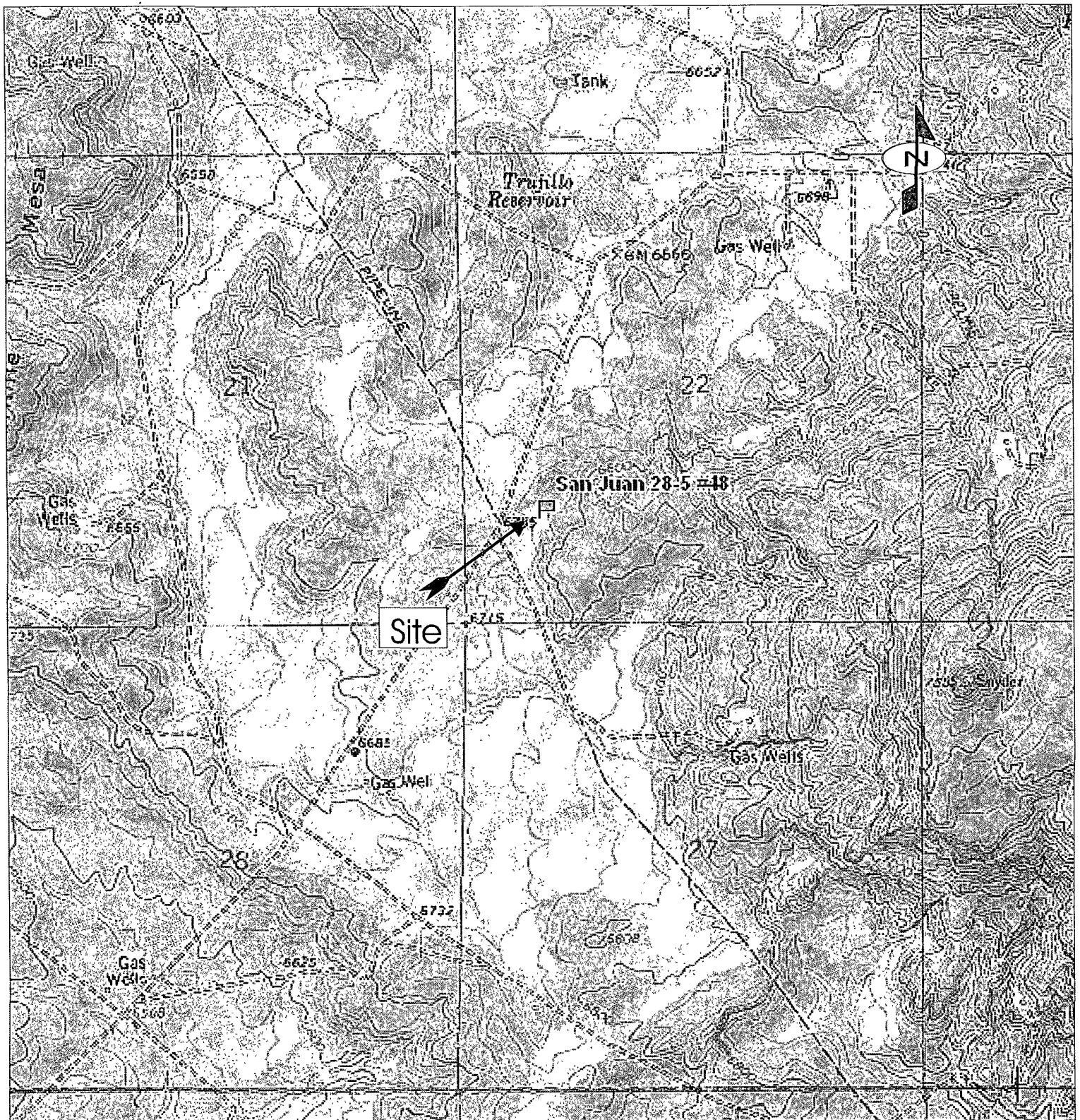

Greg Crabtree, PE
Environmental Manager/Engineer
gcrabtree@envirotech-inc.com



FIGURES

Figure 1, Vicinity Map

Figure 2, Site Map



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

ConocoPhillips
 San Juan 28-5 #48 (hBr)
 Section. 22, Township. 28N, Range 5W
 Rio Arriba County, NM

ENVIROTECH INC.

ENVIRONMENTAL SCIENTISTS & ENGINEERS
 5796 U.S. HIGHWAY 64
 FARMINGTON, NEW MEXICO 87401

PHONE (505) 632-0615

Vicinity Map

Figure 1

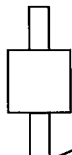
PROJECT No 92115-1470 Date Drawn: 12/22/10

DRAWN BY:
 Toni McKnight

PROJECT MANAGER:
 Greg Crabtree



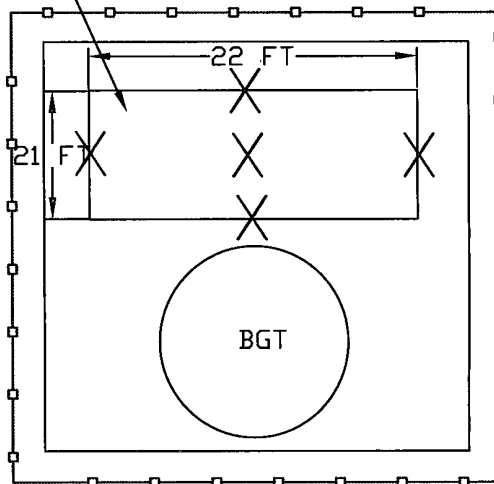
METER RUN



EXCAVATION
AREA: 22' X 21' X 8' DEEP
N36.642735
W107.3524633



SAN JUAN 28-5 #48



LEGEND

X COMPOSITE SAMPLE
(12/22/10)

⊕ WELL HEAD

SITE MAP CONOCOPHILLIPS

SAN JUAN 28-5 #48 (HBR)
SECTION 22 TOWNSHIP 28N RANGE 5W
RIO ARriba COUNTY, NEW MEXICO

SCALE: NTS

PROJECT N092115-1470

FIGURE NO. 2

REV

REVISIONS

NO.	DATE	BY	DESCRIPTION
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MAP DRWN	TLM	12/22/10	BASE DRWN
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ENVIRONMENTAL SCIENTISTS & ENGINEERS
ENVIROTECH

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

TABLES

Table 1, Summary of Analytical Results

Table 1, Summary of Analytical Results
 ConocoPhillips
 San Juan 28-5 #48 (hBr) Well Site
 Section 29, Township 28 North, Range 5 West
 Rio Arriba County, New Mexico
 Project No. 92115-1470

Sample Description	Sample Number	Date	USEPA Method 418.1 TPH (ppm)	OMV (ppm)	USEPA Method 8021 benzene (ppm)	USEPA Method 8021 BTEX (ppm)
NMOCD Standards	NA	NA	5000	100	10	50
Surface Composite	1	10/15/10	1800	810	0.304	63.2
Excavated Pile	2	10/15/10	2760	773	0.0723	36.8
Three (3) Feet BGS	1	10/19/10	NS	2800	NS	NS
Five (5) Feet BGS	2	10/19/10	NS	1400	NS	NS
Seven (7) Feet BGS	3	10/19/10	NS	2400	NS	NS
Five (5) Point Composite	1	12/07/10	232	798	ND	0.0399

ND = Non-Detect

NS = Not Sampled

* Values in **BOLD** above regulatory standards

APPENDIX A

Analytical Results



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-1470
Sample No.:	1	Date Reported:	12/22/2010
Sample ID:	Surface Composite	Date Sampled:	10/15/2010
Sample Matrix:	Soil	Date Analyzed:	10/15/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

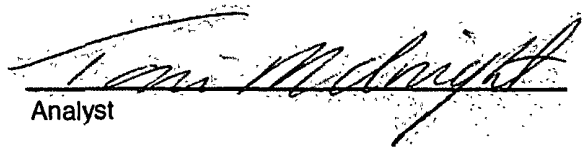
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	1,800	5.0

ND = Parameter not detected at the stated detection limit.

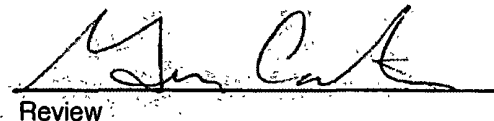
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: San Juan 28-5 #48 (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Toni McKnight, EIT
Printed


Review

Greg Crabtree, PE
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

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

Project #: 92115-1470
Date Reported: 12/22/2010
Date Sampled: 10/15/2010
Date Analyzed: 10/15/2010
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	2,760	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: San Juan 28-5 #48 (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Toni McKnight, EIT
Printed


Review

Greg Crabtree, PE
Printed



CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 15-Oct-10

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	181
	200	
	500	
	1000	

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


Analyst

12/22/2010
Date

Toni McKnight, EIT
Print Name


Review

12/22/2010
Date

Greg Crabtree, PE
Print Name



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-1470
Sample No.:	1	Date Reported:	12/22/2010
Sample ID:	Five (5)-point Composite	Date Sampled:	12/7/2010
Sample Matrix:	Soil	Date Analyzed:	12/7/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	232	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: San Juan 28-5 #48 (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Rene Garcia-Reyes

Printed

Review

Greg Crabtree, PE

Printed




CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 7-Dec-10

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

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




Analyst

12/22/2010

Date

Rene Garcia-Reyes

Print Name



Review

12/22/2010

Date

Greg Crabtree, PE

Print Name

Client:	ConocoPhillips	Project #:	92115-1470
Sample ID:	Surface Composite	Date Reported:	10-18-10
Laboratory Number:	56204	Date Sampled:	10-15-10
Chain of Custody:	10545	Date Received:	10-15-10
Sample Matrix:	Soil	Date Analyzed:	10-18-10
Preservative:	Cool	Date Extracted:	10-15-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	304	0.9
Toluene	19,400	1.0
Ethylbenzene	3,350	1.0
p,m-Xylene	32,800	1.2
o-Xylene	7,380	0.9
Total BTEX	63,200	

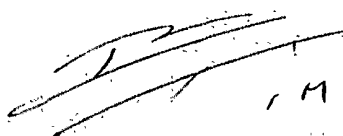
ND - Parameter not detected at the stated detection limit.

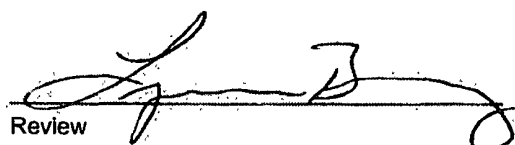
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	107 %
	1,4-difluorobenzene	110 %
	Bromochlorobenzene	112 %

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

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

Comments: San Juan 28-5 #48


 Analyst


 Review



envirotech
Analytical Laboratory

**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	ConocoPhillips	Project #:	92115-1470
Sample ID:	Excavated Soil	Date Reported:	10-18-10
Laboratory Number:	56205	Date Sampled:	10-15-10
Chain of Custody:	10545	Date Received:	10-15-10
Sample Matrix:	Soil	Date Analyzed:	10-18-10
Preservative:	Cool	Date Extracted:	10-15-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	72.3	0.9
Toluene	3,610	1.0
Ethylbenzene	1,250	1.0
p,m-Xylene	25,700	1.2
o-Xylene	6,120	0.9
Total BTEX	36,800	

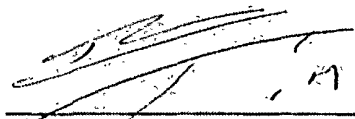
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	103 %
	1,4-difluorobenzene	109 %
	Bromochlorobenzene	107 %

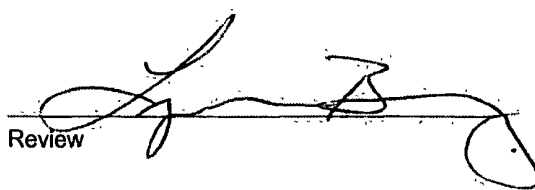
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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

Comments: San Juan 28-5 #48



Analyst



Review



envirotech

Analytical Laboratory

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	1018BBLK QA/QC	Date Reported:	10-18-10
Laboratory Number:	56198	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-18-10
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	5.0027E+005	5.0128E+005	0.2%	ND	0.1
Toluene	5.6595E+005	5.6709E+005	0.2%	ND	0.1
Ethylbenzene	5.0992E+005	5.1094E+005	0.2%	ND	0.1
p,m-Xylene	1.2110E+006	1.2135E+006	0.2%	ND	0.1
o-Xylene	4.5612E+005	4.5704E+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	1.6	1.5	6.3%	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	2.8	3.3	17.9%	0 - 30%	0.9


Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	555	111%	39 - 150
Toluene	1.6	500	563	112%	46 - 148
Ethylbenzene	ND	500	559	112%	32 - 160
p,m-Xylene	ND	1000	1,120	112%	46 - 148
o-Xylene	2.8	500	572	114%	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 56198-56200, 56204-56205, 56212, 56218


Analyst


Review

CHAIN OF CUSTODY RECORD

10545

Client: CONOCO PHILLIPS		Project Name / Location: SAN JUAN 20-5 #48	
Client Address:		Sampler Name: Toni Munnicht	
Client Phone No.:		Client No.: 92115-1470	

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
						H ₂ O ₂	HCl	Other														
SURFACE COMPOSITE	10/15/10	11:02	56204	Soil Solid	1/402				✓	✓											✓	✓
EXCAVATED SOIL	10/15/10	11:20	56205	Soil Solid	1/402				✓	✓											✓	✓
				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>Toni Munnicht</i>	Date 10/15/10	Time 14:10	Received by: (Signature) <i>Brandy J. Hino</i>	Date 10/15/10	Time 14:10
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		



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

ACCENT BINDER - FORM 00-0007

Client:	ConocoPhillips	Project #:	92115-1470
Sample ID:	Composite	Date Reported:	12-08-10
Laboratory Number:	56680	Date Sampled:	12-07-10
Chain of Custody:	10854	Date Received:	12-07-10
Sample Matrix:	Soil	Date Analyzed:	12-08-10
Preservative:	Cool	Date Extracted:	12-07-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	7.1	1.0
Ethylbenzene	4.3	1.0
p,m-Xylene	21.4	1.2
o-Xylene	7.1	0.9
Total BTEX	39.9	


ND - Parameter not detected at the stated detection limit.

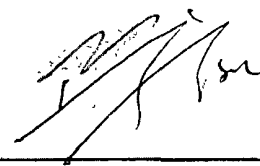
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	93.5 %
	1,4-difluorobenzene	94.9 %
	Bromochlorobenzene	92.8 %

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

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

Comments: San Juan 28-5 #48 (hBr)/Spill Assessment


 Analyst


 Review



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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	1208BBLK QA/QC	Date Reported:	12-08-10
Laboratory Number:	56680	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-08-10
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	4.1516E+005	4.1599E+005	0.2%	ND	0.1
Toluene	5.3993E+005	5.4102E+005	0.2%	ND	0.1
Ethylbenzene	5.0589E+005	5.0690E+005	0.2%	ND	0.1
p,m-Xylene	1.1691E+006	1.1714E+006	0.2%	ND	0.1
o-Xylene	4.9131E+005	4.9229E+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	7.1	7.7	8.5%	0 - 30%	1.0
Ethylbenzene	4.3	4.6	7.0%	0 - 30%	1.0
p,m-Xylene	21.4	21.6	0.9%	0 - 30%	1.2
o-Xylene	7.1	7.4	4.2%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	500	100%	39 - 150
Toluene	7.1	500	490	96.7%	46 - 148
Ethylbenzene	4.3	500	479	94.9%	32 - 160
p,m-Xylene	21.4	1000	1,030	101%	46 - 148
o-Xylene	7.1	500	464	91.6%	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 Photolionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 56680, 56682-56684, 56686-56689


Analyst

Review

CHAIN OF CUSTODY RECORD

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Client: COPE			Project Name / Location: San Juan 285 #48(hBr) / Spill assessment			ANALYSIS / PARAMETERS																																															
Client Address:			Sampler Name: Rene Garcia Reyes			<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>Sample Cool</td> <td>Sample Intact</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> </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																	
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Client Phone No.:			Client No.: 92115-1470																																																		
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative																																															
						HgCl ₂	HCl																																														
Composite	12/7/10	10:40	56680	Soil Solid	402			X		X									X	X																																	
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