

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

30-039-27497

OPERATOR

☐ Initial Report

☒ Final Report

Name of Company Burlington Resources a Wholly Subsidiary of ConocoPhillips Company	Contact Kelsi Harrington	
Address 3401 E. 30th St., Farmington, NM 87402	Telephone No. 505-599-3403	
Facility Name San Juan 30-6 Unit 477S	Facility Type Gas Well API#3003927497	
Surface Owner Private	Mineral Owner Private	Lease No.

LOCATION OF RELEASE

Unit Letter F	Section 28	Township 30N	Range 06W	Feet from the 1710'	North/South Line North	Feet from the 1460'	East/West Line West	County Rio Arriba
-------------------------	----------------------	------------------------	---------------------	-------------------------------	----------------------------------	-------------------------------	-------------------------------	-----------------------------

Latitude **36.78611° N** Longitude **-107.47175° W**

NATURE OF RELEASE

Type of Release – Produced Water	Volume of Release – 40 BBL	Volume Recovered – 39.5 BBL
Source of Release: Water Pit Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 8/24/2011 12:30 p.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	
By Whom? Kelsi Harrington	Date and Hour – 8/25/2011 7:00 a.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.* **A ball valve at the separator was opened by an unknown third party causing the produced water to be diverted into the pit tank resulting in a pit tank overflow.**

Describe Area Affected and Cleanup Action Taken.* **All fluid remained within the berm, specifically in between the metal cribbing and pit tank and approximately 39.5 BBL of fluid was recovered. Confirmation sampling occurred and analytical results were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases; therefore no further action is needed.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Kelsi Harrington</i>	OIL CONSERVATION DIVISION	
Printed Name: Kelsi Harrington	Approved by District Supervisor:	
Title: Environmental Consultant	Approval Date:	Expiration Date:
E-mail Address: kelsi.g.harrington@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/3/2011 Phone: 505-599-3403		

* Attach Additional Sheets If Necessary

nJK1122855228





October 4, 2011

Project Number 92115-1946

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

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

**RE: CONFIRMATION SAMPLING DOCUMENTATION FOR THE SAN JUAN 30-6 #477S (hBr),
SAN JUAN COUNTY, NEW MEXICO**

Dear Ms. Harrington,

Enclosed please find the field notes and analytical results for confirmation sampling activities performed at the San Juan 30-6 #477S (hBr) well site located in Section 28, Township 30 North, Range 6 West, San Juan County, New Mexico. Upon Envirotech's arrival, a brief site assessment was conducted, and the regulatory standards for the site were determined to be 100 parts per million (ppm) total petroleum hydrocarbons (TPH) and 100 ppm organic vapors due to a horizontal distance to surface water less than 200 feet and a distance to groundwater of less than 50 feet, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases.


Prior to Envirotech personnel's arrival on September 8, 2011, a below grade tank (BGT) had been removed from the location. At the bottom of the pit where the BGT tank had been removed, approximately six (6) inches of sludge was discovered. One (1) composite sample was collected from the bottom of the pit at approximately six (6) inches below ground surface (BGS). The sample was analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID). The sample returned results above the regulatory standard for TPH, but below the regulatory standard for organic vapors; see enclosed *Field Notes*. The sample was then placed 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, for benzene and BTEX using USEPA Method 8021 and for total chlorides using USEPA Method 4500B. The sample returned results below the regulatory standards for all constituents analyzed; see enclosed *Analytical Results*.

The sludge in the bottom of the pit in which the BGT tank had been previously removed was hydro excavated and, at Ms. Harrington's request, Envirotech personnel returned to the location on September 12, 2011, to collect a post-excavation confirmation sample. One (1) composite sample was collected from the bottom of the excavated BGT pit. The sample was analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID). The sample returned results above the regulatory standard for TPH, but below the regulatory standard for organic vapors; see enclosed *Field Notes*. The sample was then

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, for benzene and BTEX using USEPA Method 8021 and for total chlorides using USEPA Method 4500B. The sample returned results below the 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. Should you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully submitted,
ENVIROTECH, INC.


Noel Burciaga FOR NOEL
Environmental Field Technician
nburciaga@envirotech-inc.com

Enclosure(s): Field Notes
Analytical Results

Cc: Client File 92115

Client: <div style="font-size: 1.5em; font-family: cursive;">Conoco Phillips (H3C)</div>	 envirotech <small>(505) 632-0815 (800) 362-1879 5796 U.S. Hwy 64, Farmington, NM 87401</small>	Project No: <div style="font-size: 1.2em; font-family: cursive;">92115-H46</div> COC No:
---	---	--

FIELD REPORT: SPILL CLOSURE VERIFICATION

 PAGE NO: 1 OF 1

LOCATION: NAME: San Juan 30-6 WELL #: 4775
 QUAD/UNIT: SEC: 28 TWP: 30 N RNG: 6 W PM: CNTY: ST ST: NM
 QTR/FOOTAGE: CONTRACTOR:

DATE STARTED: 09-08-11
 DATE FINISHED: 09-08-11
 ENVIRONMENTAL SPECIALIST: Joe B

EXCAVATION APPROX: FT. X FT. X FT. DEEP CUBIC YARDAGE:
 DISPOSAL FACILITY: REMEDIATION METHOD:
 LAND USE: BLM LEASE: LAND OWNER: BLM
 CAUSE OF RELEASE: OGT Removal MATERIAL RELEASED: Produce water

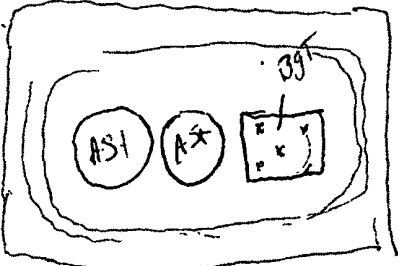
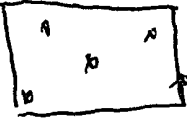
SPILL LOCATED APPROXIMATELY: FT. FROM
 DEPTH TO GROUNDWATER: < 50' NEAREST WATER SOURCE: NEAREST SURFACE WATER: 130 ft
 NMOCD RANKING SCORE: 20 NMOCD TPH CLOSURE STD: PPM 1000
 SOIL AND EXCAVATION DESCRIPTION:

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
200 S10	11:05							201
Bottom Set can	11:25	1		5g	20ml	1:40	96	384

SPILL PERIMETER

OVM RESULTS

SPILL PROFILE

	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE PID (ppm)</th> </tr> <tr><td>1</td><td>110</td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="3">LAB SAMPLES</th> </tr> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>TIME</th> </tr> <tr><td>1</td><td>110</td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	SAMPLE ID	FIELD HEADSPACE PID (ppm)	1	110																			LAB SAMPLES			SAMPLE ID	ANALYSIS	TIME	1	110																							
SAMPLE ID	FIELD HEADSPACE PID (ppm)																																																					
1	110																																																					
LAB SAMPLES																																																						
SAMPLE ID	ANALYSIS	TIME																																																				
1	110																																																					

TRAVEL NOTES: _____ CALLED OUT: _____

ONSITE: _____

PAGE NO: <u>1</u> OF <u>1</u> DATE STARTED: <u>09-12-11</u> DATE FINISHED: <u>09-12-11</u>	 (505) 632-0615 (800) 362-1879 5796 U.S. Hwy 84, Farmington, NM 87401	ENVIRONMENTAL SPECIALIST: <u>Noel Busciaga</u> LAT: <u>36.7861839</u> LONG: <u>-107.4722967</u>
--	---	--

FIELD REPORT: BGT / PIT CLOSURE VERIFICATION							
LOCATION:	NAME: <u>ST 30-6</u>	WELL #: <u>4775</u>	TEMP PIT:	PERMANENT PIT:	BGT: <u>X</u>		
LEGAL ADD:	UNIT:	SEC: <u>28</u>	TWP: <u>30N</u>	RNG: <u>6W</u>	PM: <u>NM</u>		
QTR/FOOTAGE:	CNTY: <u>ST</u>		ST: <u>NM</u>				

EXCAVATION APPROX:	—	FT.	X	—	FT.	X	—	FT. DEEP	CUBIC YARDAGE:
DISPOSAL FACILITY:	REMEDICATION METHOD: —								
LAND OWNER:	—		API: —		BGT / PIT VOLUME:		<u>45 bbl</u>		
CONSTRUCTION MATERIAL:	DOUBLE-WALLED, WITH LEAK DETECTION:								

LOCATION APPROXIMATELY:	FT.	FROM WELLHEAD
DEPTH TO GROUNDWATER:		

TEMPORARY PIT - GROUNDWATER 50-100 FEET DEEP BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 500 mg/kg
TEMPORARY PIT - GROUNDWATER ≥100 FEET DEEP BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 1000 mg/kg
<input checked="" type="checkbox"/> PERMANENT PIT OR BGT BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, TPH (418.1) ≤ 100 mg/kg, CHLORIDES ≤ 250 mg/kg

FIELD 418.1 ANALYSIS							
TIME	SAMPLE ID.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (mg/kg)
3:55	200 STD					187	187
4:02	5000 ml	1	5g	20 ml	1:4	80	320
		2					
		3					
		4					
		5					
		6					

PERIMETER	FIELD CHLORIDES RESULTS	PROFILE																														
	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>SAMPLE ID</th> <th>READING</th> <th>CALC. (mg/kg)</th> </tr> <tr> <td>1</td> <td>ND</td> <td></td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	SAMPLE ID	READING	CALC. (mg/kg)	1	ND																										
	SAMPLE ID	READING	CALC. (mg/kg)																													
	1	ND																														
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">PID RESULTS</th> </tr> <tr> <th>SAMPLE ID</th><th>RESULTS (mg/kg)</th> </tr> <tr> <td>1</td><td>ND</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>	PID RESULTS		SAMPLE ID	RESULTS (mg/kg)	1	ND																										
PID RESULTS																																
SAMPLE ID	RESULTS (mg/kg)																															
1	ND																															

LAB SAMPLES	NOTES:																					
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>RESULTS</th> </tr> <tr><td> </td><td>BENZENE</td><td> </td></tr> <tr><td> </td><td>BTEX</td><td> </td></tr> <tr><td> </td><td>GRO & DRO</td><td> </td></tr> <tr><td> </td><td>CHLORIDES</td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	SAMPLE ID	ANALYSIS	RESULTS		BENZENE			BTEX			GRO & DRO			CHLORIDES								<p style="font-size: 1.2em;">Had to come back to this site due to Hydro vac truck. Keley wanted to retest after the Hydro vac truck.</p> <p>Ranking: _____</p> <p>WORKORDER # _____ WHO ORDERED _____</p>
SAMPLE ID	ANALYSIS	RESULTS																				
	BENZENE																					
	BTEX																					
	GRO & DRO																					
	CHLORIDES																					



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-1946
Sample No.:	1	Date Reported:	9/27/2011
Sample ID:	Bottom Composite @ 6" BGS	Date Sampled:	9/8/2011
Sample Matrix:	Soil	Date Analyzed:	9/8/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		


Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	384	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 30-6 #477S (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst FDR
NOEL

Noel Burciaga
Printed


Review

Torie Thompson
Printed




CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 8-Sep-11

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	201
	200	
	500	
	1000	

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


Analyst FOR

9/27/2011
Date

Noel Burciaga

Print Name


Review

9/27/2011
Date

Torie Thompson

Print Name



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-1946
Sample No.:	1	Date Reported:	9/27/2011
Sample ID:	Bottom 5 Pt. Composite	Date Sampled:	9/12/2011
Sample Matrix:	Soil	Date Analyzed:	9/12/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	320	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 30-6 #477S (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Noel Burciaga
Printed


Review

Torie Thompson
Printed

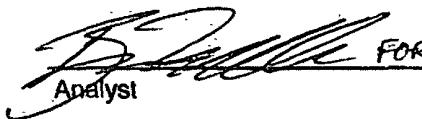


CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 12-Sep-11

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	187
	200	
	500	
	1000	

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

 FOR
Analyst

Noel Burciaga

Print Name


Review

Torie Thompson

Print Name

9/27/2011
Date

9/27/2011
Date

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

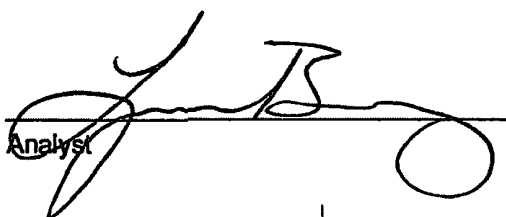
Client:	ConocoPhillips	Project #:	92115-1946
Sample ID:	Bottom 5pt Composite	Date Reported:	09-09-11
Laboratory Number:	59576	Date Sampled:	09-08-11
Chain of Custody No:	12543	Date Received:	09-08-11
Sample Matrix:	Soil	Date Extracted:	09-08-11
Preservative:	Cool	Date Analyzed:	09-09-11
Condition:	Intact	Analysis Requested:	8015 TPH

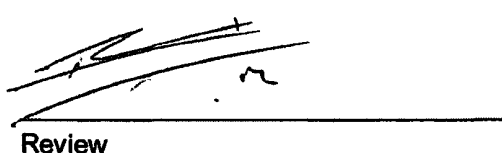
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1.1	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	1.1	

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: **Confirmation Sampling / San Juan 30-6 Unit #477S.**


Analyst


Review

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

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	09-09-11 QA/QC	Date Reported:	09-09-11
Laboratory Number:	59484	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-09-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	40795	1.002E+03	1.003E+03	0.04%	0 - 15%
Diesel Range C10 - C28	40795	1.006E+03	1.007E+03	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	2.31	0.2
Diesel Range C10 - C28	2.30	0.1

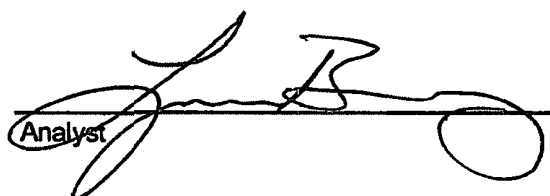
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Range
Gasoline Range C5 - C10	20.1	14.8	26.3%	0 - 30%
Diesel Range C10 - C28	738	723	2.03%	0 - 30%

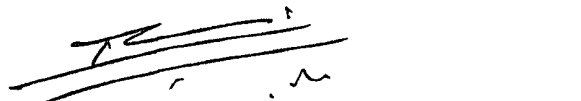
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	20.1	250	277	103%	75 - 125%
Diesel Range C10 - C28	738	250	979	99.1%	75 - 125%

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 59484, 59573-59576, 59578-59582.


 Analyst


 Review

Client:	ConocoPhillips	Project #:	92115-1946
Sample ID:	Bottom 5pt Composite	Date Reported:	09-09-11
Laboratory Number:	59576	Date Sampled:	09-08-11
Chain of Custody:	12543	Date Received:	09-08-11
Sample Matrix:	Soil	Date Analyzed:	09-09-11
Preservative:	Cool	Date Extracted:	09-09-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	2.3	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	1.5	1.2
o-Xylene	1.0	0.9
Total BTEX	4.8	

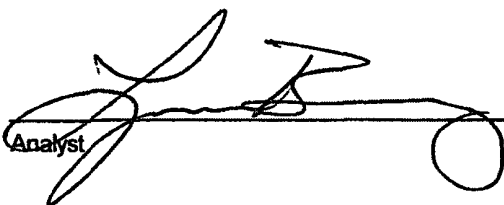
ND - Parameter not detected at the stated detection limit.

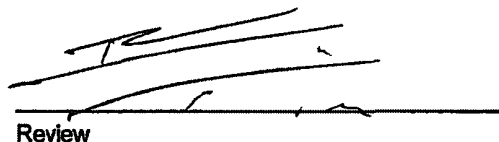
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	105 %
	1,4-difluorobenzene	119 %
	Bromochlorobenzene	84.7 %

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: Confirmation Sampling / San Juan 30-6 Unit #477S.


 Analyst


 Review

Client:	N/A	Project #:	N/A
Sample ID:	09098BLK QA/QC	Date Reported:	07-09-10
Laboratory Number:	59484	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-09-11
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	3.6745E+006	3.6818E+006	0.2%	ND	0.1
Toluene	3.7240E+006	3.7315E+006	0.2%	ND	0.1
Ethylbenzene	3.2920E+006	3.2986E+006	0.2%	ND	0.1
p,m-Xylene	9.0032E+006	9.0213E+006	0.2%	ND	0.1
o-Xylene	3.1067E+006	3.1130E+006	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	10.5	10.3	1.9%	0 - 30%	1.0
Ethylbenzene	13.7	14.2	3.6%	0 - 30%	1.0
p,m-Xylene	69.5	68.9	0.9%	0 - 30%	1.2
o-Xylene	29.8	28.7	3.7%	0 - 30%	0.9

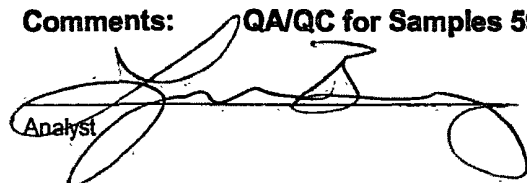
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	470	93.9%	39 - 150
Toluene	10.5	500	464	90.9%	46 - 148
Ethylbenzene	13.7	500	461	89.8%	32 - 160
p,m-Xylene	69.5	1000	1,010	94.4%	46 - 148
o-Xylene	29.8	500	478	90.3%	46 - 148

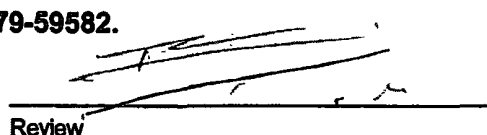
ND - Parameter not detected at the stated detection limit.

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 59484, 59576, 59579-59582.

Analyst 

Review 

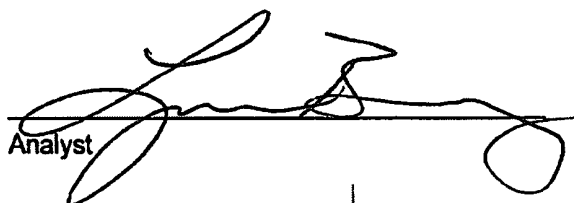
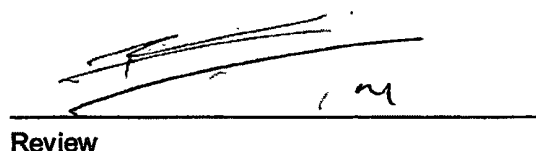
Client:	ConocoPhillips	Project #:	92115-1946
Sample ID:	Bottom 5pt Composite	Date Reported:	09/09/11
Lab ID#:	59576	Date Sampled:	09/08/11
Sample Matrix:	Soil	Date Received:	09/08/11
Preservative:	Cool	Date Analyzed:	09/09/11
Condition:	Intact	Chain of Custody:	12543

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

Total Chloride**120**

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Confirmation Sampling / San Juan 30-6 Unit #477S.**


Analyst
Review

CHAIN OF CUSTODY RECORD *Pish* 12543

1 2 5 4 3

Client:			Project Name / Location:						ANALYSIS / PARAMETERS													
Conoco Phillips			San Juan Confirmation Sampling / 30% unit #4775																			
Client Address:			Sampler Name: Noel Burciaga						TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.:			Client No.: 92115-1946																			
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative <small>HgCl₂ HCl Cu</small>																
Batum Set Composite	9-8-11	11:25	54576	Soil Solid Sludge Aqueous	4oz			/	X	X								X			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																		
				Soil Solid Sludge Aqueous																		
				Soil Solid Sludge Aqueous																		
Relinquished by: (Signature) 				Date	Time	Received by: (Signature) 				Date	Time											
Relinquished by: (Signature) 				9-8-11	1:22	Received by: (Signature) 				9-8-11	1:22											
Relinquished by: (Signature) 						Received by: (Signature)																

envirotech
Analytical Laboratory

..... 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 28

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

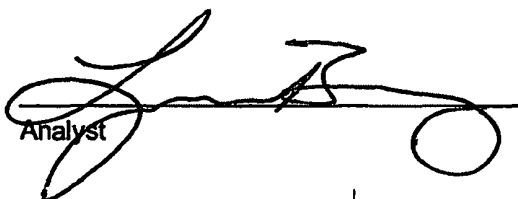
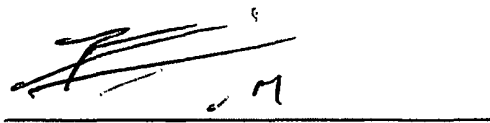
Client:	ConocoPhillips	Project #:	92115-1946
Sample ID:	Bottom 5pt Surface Composite	Date Reported:	09-14-11
Laboratory Number:	59618	Date Sampled:	09-12-11
Chain of Custody No:	12565	Date Received:	09-13-11
Sample Matrix:	Soil	Date Extracted:	09-13-11
Preservative:	Cool	Date Analyzed:	09-13-11
Condition:	Intact	Analysis Requested:	8015 TPH

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

ND - Parameter not detected at the stated detection limit.

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

Comments: Confirmation Sampling / SJ 30-6 Unit 477S.


Analyst
Review

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

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	09-13-11 QA/QC	Date Reported:	09-14-11
Laboratory Number:	59617	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-13-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	40799	1.001E+03	1.001E+03	0.04%	0 - 15%
Diesel Range C10 - C28	40799	9.996E+02	1.000E+03	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	2.12	0.2
Diesel Range C10 - C28	4.77	0.1


Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Range
Gasoline Range C5 - C10	ND	ND	0.00%	0 - 30%
Diesel Range C10 - C28	57.0	59.6	4.47%	0 - 30%

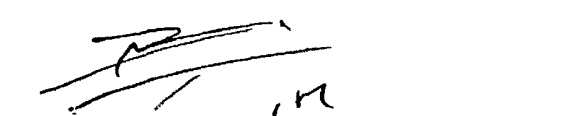
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	251	100%	75 - 125%
Diesel Range C10 - C28	57.0	250	302	98.5%	75 - 125%

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 59491-59506, 59617-59618.


 Analyst


 Review

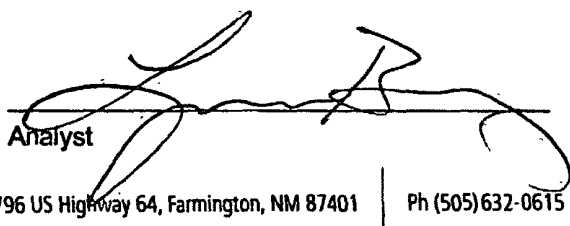
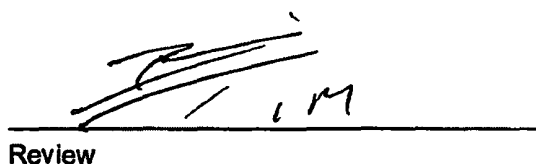
Client:	ConocoPhillips	Project #:	92115-1946
Sample ID:	Bottom 5pt Surface Composite	Date Reported:	09-14-11
Lab ID#:	59618	Date Sampled:	09-12-11
Sample Matrix:	Soil	Date Received:	09-13-11
Preservative:	Cool	Date Analyzed:	09-14-11
Condition:	Intact	Chain of Custody:	12565

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

Total Chloride**130**

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Confirmation Sampling / SJ 30-6 Unit 477S.**


Analyst
Review

CHAIN OF CUSTODY RECORD

^x Rush ^y 12565

Client: Conoco			Project Name / Location: Confirmation Sampling 1st 30-6 unit 4775				ANALYSIS / PARAMETERS														
Client Address:			Sampler Name: Noel Burcaga				TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	PCL	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Client Phone No.:			Client No.: 92115-1446																		
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative H ₂ O ₂ HCl															
Bottom 5' surface composite	9-12-11	4:02	59618	Soil Solid	Sludge Aqueous	4oz															
				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)						Date	Time	Received by: (Signature)						Date	Time						
						9-13-11	7:43 AM							9/13/11	7:43 PM						
Relinquished by: (Signature)								Received by: (Signature)													
Relinquished by: (Signature)								Received by: (Signature)													

^x Rush ^x



envirotech
Analytical Laboratory