

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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	ConocoPhillips Company	Contact	Kelsi Gurvitz
Address	3401 E. 30 th St., Farmington, NM 87402	Telephone No.	505-599-3403
Facility Name	San Juan 28-7 Unit #182	Facility Type	Gas Well API #3003920722
Surface Owner	Federal	Mineral Owner	Federal
		Lease No.	SF-078496

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	03	T27N	R07W	990'	North	1180'	East	Rio Arriba

Latitude 36.60757° N Longitude 107.55531° W

NATURE OF RELEASE

Type of Release – Production Tank Leak	Volume of Release – 45 BBL (42 BBL condensate & 3 BBL produced water)	Volume Recovered – 0 BBL
Source of Release: Production Tank	Date and Hour of Occurrence unknown	Date and Hour of Discovery 3/28/10 11:05 a.m.
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Brandon Powell (NMOCD)- verbal and email	
By Whom?	Date and Hour – 3/30/10 1:30 p.m.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		

Describe Cause of Problem and Remedial Action Taken.* **On March 28, 2010, it was discovered that there was a leak in the production tank due to corrosion at the manway gasket. Upon discovery, the well was shut-in.**

Describe Area Affected and Cleanup Action Taken.* **All fluid remained within the berm and none was recovered. Excavation was completed and confirmation sampling results returned below the standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases; therefore no further action is required.**

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

Signature: <i>Kelsi Gurvitz</i>	OIL CONSERVATION DIVISION	
Printed Name: Kelsi Gurvitz	Approved by District Supervisor: <i>Bob Bell</i> For: CP	
Title: Environmental Consultant	Approval Date: <i>9/22/10</i>	Expiration Date:
E-mail Address: kelsi.m.gurvitz@conocophillips.com	Conditions of Approval:	Attached ☐
Date: 6/14/10 Phone: 505-599-3403		

* Attach Additional Sheets If Necessary

wBPA026537839





June 8, 2010

Project No. 96052-1677

Ms. Kelsi Gurvitz
ConocoPhillips
3401 East 30th Street
Farmington, NM 87401

Phone (505) 599-3465

RE: CONFIRMATION SAMPLING DOCUMENTATION FOR THE SAN JUAN 28-7 #182 WELL SITE, RIO ARRIBA COUNTY, NEW MEXICO

Dear Ms. Gurvitz,

Enclosed please find the field notes, site map, and analytical results for confirmation sampling activities conducted at the San Juan 28-7 #182 well site located in Section 3, Township 27N, Range 7W, Rio Arriba County, New Mexico.

On April 27, 2010, Envirotech, Inc. was on-site to perform confirmation sampling activities due to a leak in an above ground storage tank. Kelley Oilfield Services had excavated the area of release to approximately 55' x 55' x 18' deep prior to Envirotech, Inc.'s arrival. After a brief site assessment, the closure limits were determined to be 1,000 ppm total petroleum hydrocarbons (TPH) and 100 ppm organic vapors (OV) due to horizontal distance to surface water being between 200 and 1000 feet pursuant to the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases. One (1) composite sample was collected from each of the four (4) walls and one (1) composite was collected from the bottom and analyzed in the field for TPH using USEPA Method 418.1 and OV using a photo ionization detector (PID). The wall samples returned results below the regulatory limit of 1000 ppm TPH and 100 ppm OV; see attached *Analytical Results*. The bottom composite returned results above the regulatory limits determined for this site, therefore, further excavation was required including sloping and shoring. Kelley Oilfield Services continued excavation on April 28, 2010.

Upon Envirotech Inc.'s arrival on April 29, 2010, the excavation was approximately 57' x 93' x 21' deep. One (1) bottom composite was collected and analyzed in the field for TPH using USEPA Method 418.1 and OV using a PID. The samples returned results above the regulatory limits. Excavation continued to approximately 32' deep and an additional sample was collected from the bottom and analyzed in the field for TPH using USEPA Method 418.1 and OV using a PID. The sample returned results below the regulatory limits. One (1) composite sample was collected from the walls and analyzed in the field for TPH using USEPA Method 418.1 and OV using a PID. The sample returned results above the regulatory limits. The sides were further excavated and a composite sample was collected and analyzed in the field for TPH using USEPA Method 418.1 and OV using a PID. The sample returned results below the regulatory limits. Additionally, two (2) samples, one (1) final bottom composite and one (1) final side composite, were collected in four (4)-ounce glass jars, capped headspace free and transported, on ice, under chain of custody to Envirotech's laboratory for analysis for TPH using USEPA Method 8015 and for benzene and BTEX using

Conoco Phillips
San Juan 28-7 #182
Confirmation Sampling
Project No. 96052-1677

USEPA Method 8021. The samples collected from the bottom at 32' below ground surface and the sample collected from the walls returned results below the limits determined for this site. Therefore, Envirotech, Inc. recommends no further action in regards to this project. All contaminated soil was transported to IEI's NMOCD permitted land farm.

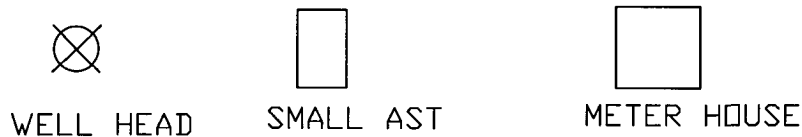
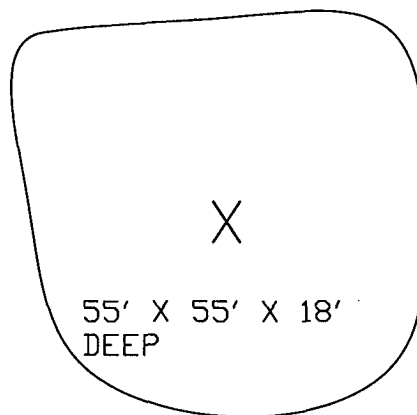
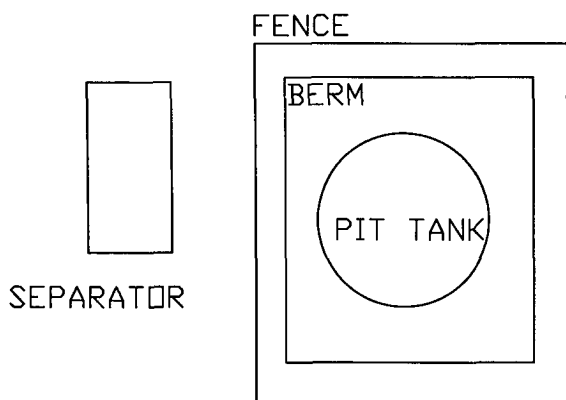
We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully Submitted,
ENVIROTECH, INC.


Barian Williamson
Senior Field Technician
bwilliamson@envirotech-inc.com

Enclosures: Site Map
Field Notes
Analytical Results

Cc: Client File No. 96052



X - LEAK SOURCE

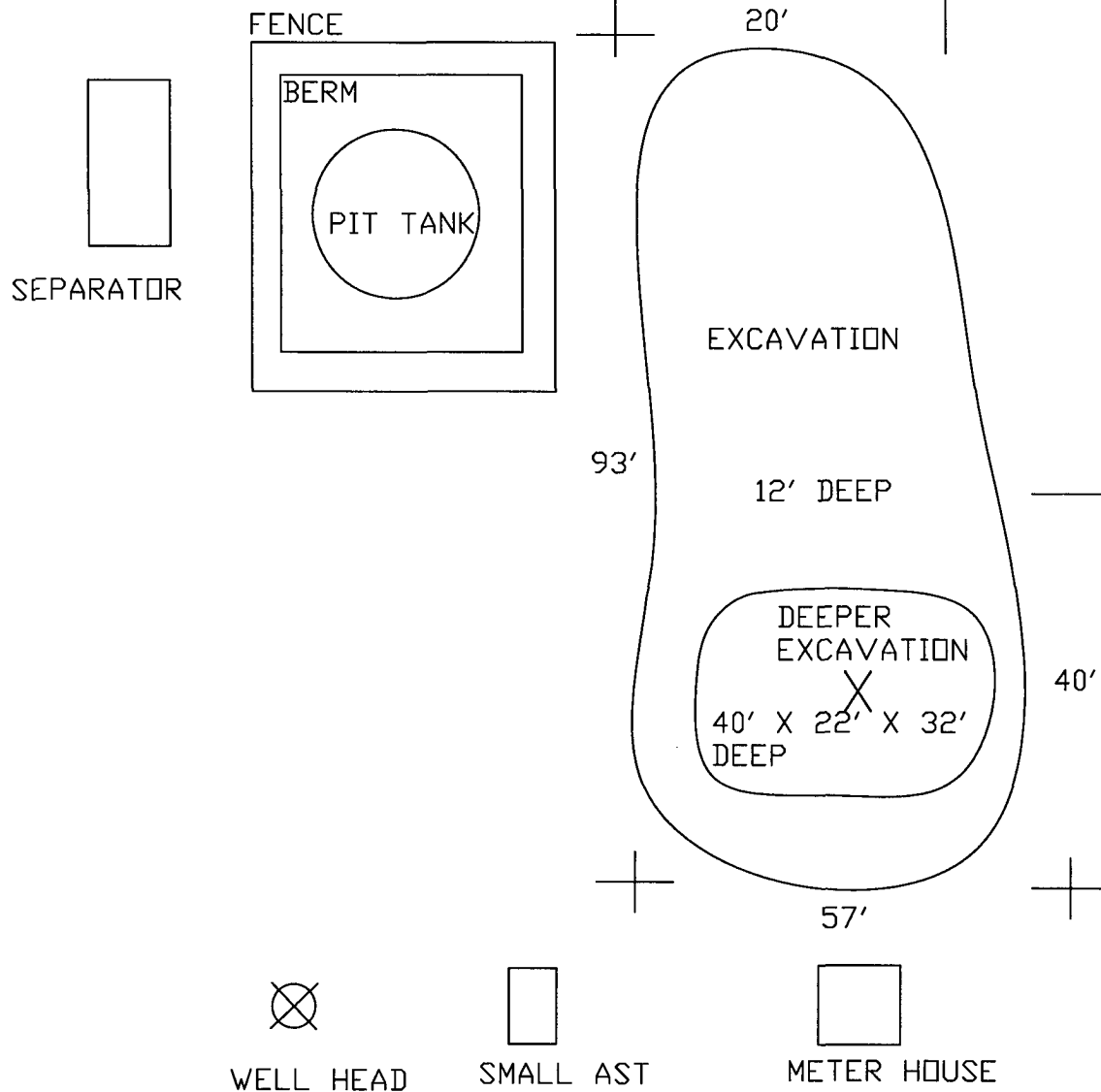
This was the excavation on 4-27-10

SITE MAP
CONOCO PHILLIPS
SAN JUAN 28-7 #182 WELLSITE
SECTION 3, TOWNSHIP 27N, RANGE 7W
RIO ARriba COUNTY, NEW MEXICO

SCALE: NTS		FIGURE NO. 1		REV	
PROJECT N096052-1677					
REVISIONS					
NO.	DATE	BY	DESCRIPTION		
MAP DRWN	BWW	5-7-10	BASE DRWN		



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



X - LEAK SOURCE

This was the excavation on 4-29-10

SITE MAP
CONOCO PHILLIPS
 SAN JUAN 28-7 #182 WELLSITE
 SECTION 3, TOWNSHIP 27N, RANGE 7W
 RIO ARRIBA COUNTY, NEW MEXICO

SCALE: NTS	FIGURE NO. 2	REV
PROJECT N096052-1677		

REVISIONS			
NO.	DATE	BY	DESCRIPTION
MAP DRWN	BWW	5-7-10	BASE DRWN



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

Location No:
96052-1677
C.O.C. No:

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: OF

DATE STARTED: 4/27/10

DATE FINISHED: 4/27/10

ENVIRONMENTAL

SPECIALIST: R. Williamson

LOCATION:	NAME: San Juan 28-7	WELL #: 182	RA
QUAD/UNIT:	A	SEC: 3 TWP: 27N	RNG: 7W PM: CNTY: RA ST: NM
TR/FOOTAGE:	1180 FTF	990 FTN	CONTRACTOR: Kellen Oilfield Services

XCAVATION APPROX: 55' FT. X 55' FT. X ~~20~~ 21 FT. DEEP CUBIC YARDAGE: 2353

DISPOSAL FACILITY: IET REMEDIATION METHOD: Removal

AND USE: Grazing LEASE: 3003920722 LAND OWNER: BLM

AUSE OF RELEASE: Leak in a tank MATERIAL RELEASED: Produced water

PILL LOCATED APPROXIMATELY: 54 FT. FROM WELL HEAD

DEPTH TO GROUNDWATER: NEAREST WATER SOURCE: 100' NEAREST SURFACE WATER: 300'

MOCD RANKING SCORE: NMCD TPH CLOSURE STD: PPM

OIL AND EXCAVATION DESCRIPTION:

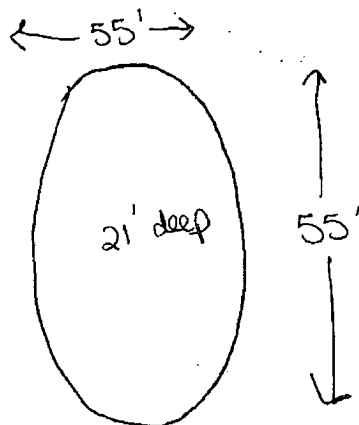
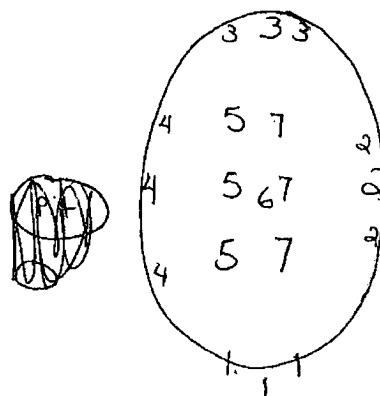
AND EXCAVATION DESCRIPTION:
Kelley Oilfield Services had excavated pit prior to arrival. Upon arrival, cleaned each wall of pit with 3 pt. composite. Bottom did not clear. Dug 3' down, still bottom did not clear. Dug 3' more, bottom did not clear with 3 pt. composite.

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
95 Standard	11:15	Standard		5	20	4	195	
South Wall	11:20	1		5	20	4	13	52
East Wall	11:29	2		5	20	4	16	64
North Wall	11:43	3		5	20	4	13	52
West Wall	11:57	4		5	20	4	14	56
1 st Bottom	12:07	5		5	20	4	801	3444
4' (3' Deeper) Bottom	13:29	6		5	20	4	802	3208
27' (6' Deeper) Bottom	14:07	7		5	20	4	2068	8272

SPILL PERIMETER

OVM RESULTS

SPILL PROFILE

[illegible]

TRAVEL NOTES: CALLED OUT: X ONSITE:

Client:

Conoco
Phillips
envirotech
 (808) 632-0618 (800) 382-1879

5796 U.S. Hwy 84, Farmington, NM 87401

Location No:

96052-1677

C.O.C. No:

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 1 OF 1

DATE STARTED: 4-29-10

DATE FINISHED: 4-29-10

LOCATION: NAME: San Juan 28-7 WELL #: 182QUAD/UNIT: A SEC: 3 TWP: 27 RNG: 7 PM: CNTY: RA ST: NMDEPT/FOOTAGE: 1190 FTE 990 FTA CONTRACTOR: Kelly Oilfield Services

ENVIRONMENTAL

SPECIALIST: B. WilliamsEXCAVATION APPROX: 55 FT. X 70 FT. X 21 FT. DEEP CUBIC YARDAGE:DISPOSAL FACILITY: JETREMEDICATION METHOD: Replace soilLAND USE: GrazingLEASE: 3003920722LAND OWNER: PublicCAUSE OF RELEASE: leakMATERIAL RELEASED: Produced water / CondensateWELL LOCATED APPROXIMATELY: 50 FT. FROM wellheadDEPTH TO GROUNDWATER: NEAREST WATER SOURCE: N/ANEAREST SURFACE WATER: 71000MOCOD RANKING SCORE: NMOCOD TPH CLOSURE STD:

PPM

OIL AND EXCAVATION DESCRIPTION: 55' x 70' x 21' deep with shoring/sloping

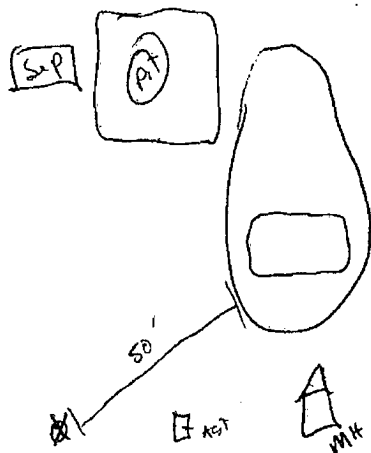
BUE

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
182 STD	9:35	STD	-	-	-	-	185	
Bottom 1	10:12	(1)	-	5	20	4	615	2460
Bottom 2	10:47	(2)	-	5	20	4	193	732
Side Composite (1)	11:30	(3)	-	5	20	4	439	1756
Side Composite (2)	12:06	(4)	-	5	20	4	12	48

SPILL PERIMETER

OVM
RESULTS

SPILL PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
100 STD	96.4
(1)	1634
(2)	858
(3)	2048
(4)	99.0

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

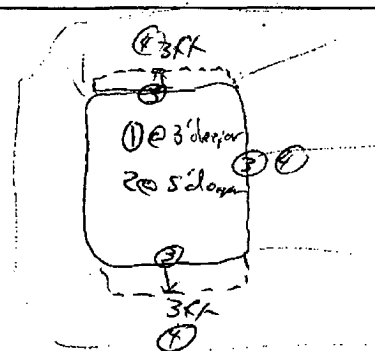
Sample # 2
Sample # 4 brought backTRAVEL NOTES: CALLED OUT: ONSITE:

Table 1, Summary of Analytical Results
 ConocoPhillips
 San Juan 28-7 #182 Well Site
 Section 3, Township 27N, Range 7W
 Rio Arriba County, New Mexico
 Project No. 96052-1677

Sample Description	Sample Number	Date	USEPA Method 418.1 TPH (ppm)	OVM (ppm)
NMOC Standards	NA	NA	1000	100
South Wall Composite	1	4/27/2010	52	6.6
East Wall Composite	2	4/27/2010	64	6.7
North Wall Composite	3	4/27/2010	52	73.6
West Wall Composite	4	4/27/2010	56	63.5
Bottom 1 Composite	5	4/27/2010	3444	2020
Bottom 2 Composite	6	4/27/2010	3210	1736
Bottom 3 Composite	7	4/27/2010	8270	2364
Bottom 1 Composite	1	4/29/2010	2460	1634
Bottom 2 Composite	2	4/29/2010	732	858
Side Composite 1	3	4/29/2010	1760	2048
Side Composite 2	4	4/29/2010	48	99.0

* Values in **BOLD** above regulatory standards



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	96052-1677
Sample No.:	1	Date Reported:	5/18/2010
Sample ID:	South Wall	Date Sampled:	4/27/2010
Sample Matrix:	Soil	Date Analyzed:	4/27/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

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

ND = Parameter not detected at the stated detection limit.

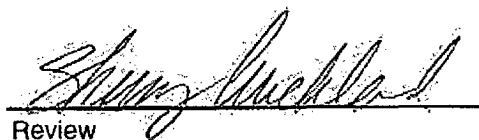
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **San Juan 28-7 #182**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson
Printed


Review

Sherry Auckland
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	96052-1677
Sample No.:	2	Date Reported:	5/18/2010
Sample ID:	East Wall	Date Sampled:	4/27/2010
Sample Matrix:	Soil	Date Analyzed:	4/27/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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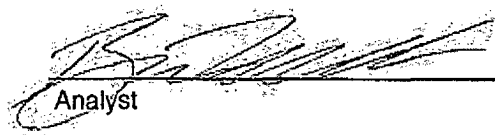
Total Petroleum Hydrocarbons	64	20.0
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ND = Parameter not detected at the stated detection limit.

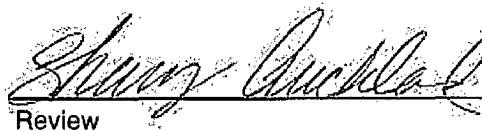
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **San Juan 28-7 #182**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson
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Review

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**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	96052-1677
Sample No.:	3	Date Reported:	5/18/2010
Sample ID:	North Wall	Date Sampled:	4/27/2010
Sample Matrix:	Soil	Date Analyzed:	4/27/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

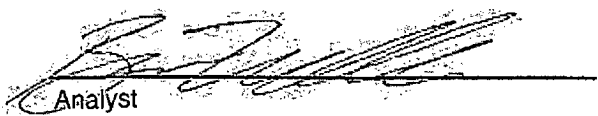
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	52	5.0

ND = Parameter not detected at the stated detection limit.

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

Comments: **San Juan 28-7 #182**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson
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Review

Sherry Auckland
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**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips
Sample No.: 4
Sample ID: West Wall
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 96052-1677
Date Reported: 5/18/2010
Date Sampled: 4/27/2010
Date Analyzed: 4/27/2010
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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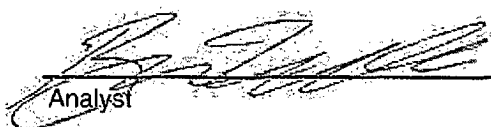
Total Petroleum Hydrocarbons	56	20.0
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ND = Parameter not detected at the stated detection limit.

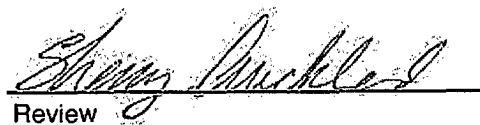
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **San Juan 28-7 #182**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson
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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	96052-1677
Sample No.:	5	Date Reported:	5/18/2010
Sample ID:	Bottom 1 21' BGS	Date Sampled:	4/27/2010
Sample Matrix:	Soil	Date Analyzed:	4/27/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

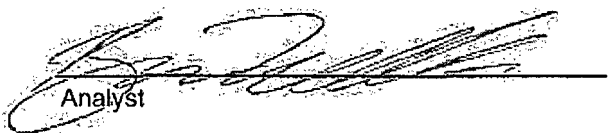
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	3,440	5.0

ND = Parameter not detected at the stated detection limit.

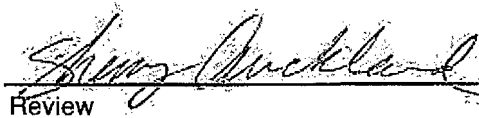
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **San Juan 28-7 #182**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson
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**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	96052-1677
Sample No.:	6	Date Reported:	5/18/2010
Sample ID:	Bottom 1 24' BGS	Date Sampled:	4/27/2010
Sample Matrix:	Soil	Date Analyzed:	4/27/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

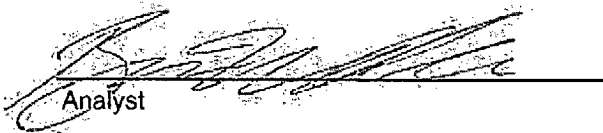
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	3,210	5.0

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 28-7 #182**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson
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**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	96052-1677
Sample No.:	7	Date Reported:	5/18/2010
Sample ID:	Bottom 1 27' BGS	Date Sampled:	4/27/2010
Sample Matrix:	Soil	Date Analyzed:	4/27/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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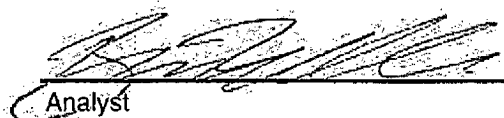
Total Petroleum Hydrocarbons	8,270	5.0
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ND = Parameter not detected at the stated detection limit.

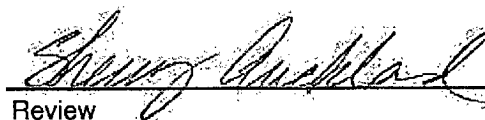
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **San Juan 28-7 #182**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson
Printed


Review

Sherry Auckland
Printed

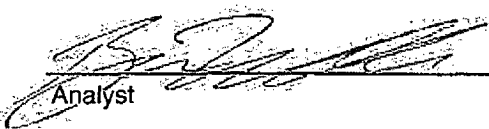


CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 27-Apr-10

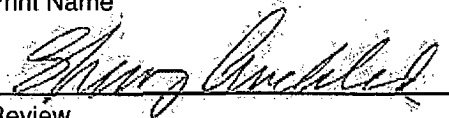
Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	195	195
	500	
	1000	

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


Analyst

Barian Williamson

Print Name


Review

Sherry Auckland

Print Name

6-9-10
Date

6/9/10
Date



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

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

Project #: 96052-1677
Date Reported: 5/18/2010
Date Sampled: 4/29/2010
Date Analyzed: 4/29/2010
Analysis Needed: TPH-418.1

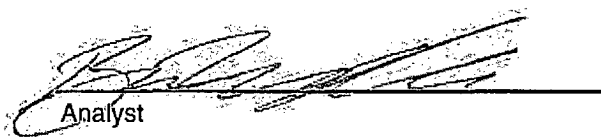
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	2,460	5.0

ND = Parameter not detected at the stated detection limit.

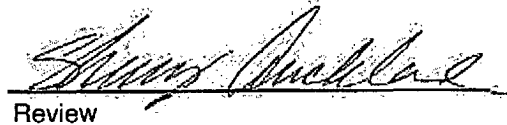
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **San Juan 28-7 #182**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson
Printed


Review

Sherry Auckland
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	96052-1677
Sample No.:	2	Date Reported:	5/18/2010
Sample ID:	Bottom 2	Date Sampled:	4/29/2010
Sample Matrix:	Soil	Date Analyzed:	4/29/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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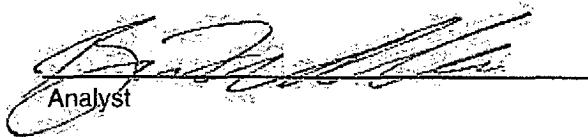
Total Petroleum Hydrocarbons	732	5.0
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ND = Parameter not detected at the stated detection limit.

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

Comments: **San Juan 28-7 #182**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

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**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	96052-1677
Sample No.:	3	Date Reported:	5/18/2010
Sample ID:	Side Composite 1	Date Sampled:	4/29/2010
Sample Matrix:	Soil	Date Analyzed:	4/29/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

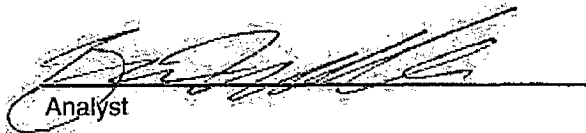
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	1,760	5.0

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 28-7 #182**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	96052-1677
Sample No.:	4	Date Reported:	5/18/2010
Sample ID:	Side Composite 2	Date Sampled:	4/29/2010
Sample Matrix:	Soil	Date Analyzed:	4/29/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

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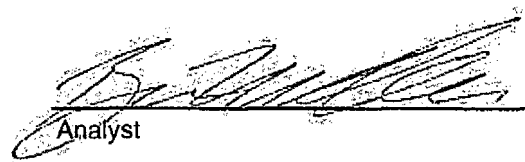
Total Petroleum Hydrocarbons	48	5.0
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ND = Parameter not detected at the stated detection limit.

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

Comments: **San Juan 28-7 #182**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

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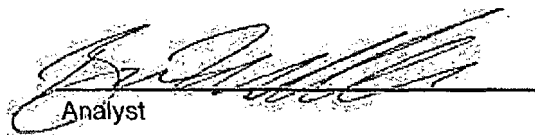


CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 29-Apr-10

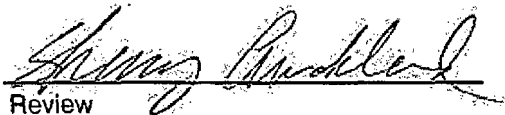
Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	182	185
	500	
	1000	

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


Analyst

6-9-10
Date

Barian Williamson
Print Name


Review

6/9/10
Date

Sherry Auckland
Print Name



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**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	ConocoPhillips	Project #:	96052-1677
Sample ID:	Bottom Composite	Date Reported:	04-30-10
Laboratory Number:	53927	Date Sampled:	04-29-10
Chain of Custody:	9223	Date Received:	04-29-10
Sample Matrix:	Soil	Date Analyzed:	04-30-10
Preservative:	Cool	Date Extracted:	04-29-10
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	3.6	1.0
Ethylbenzene	2.8	1.0
p,m-Xylene	50.9	1.2
o-Xylene	17.5	0.9
Total BTEX	74.8	

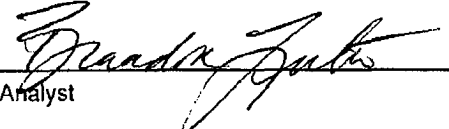
ND - Parameter not detected at the stated detection limit.

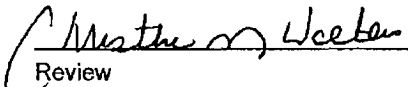
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	95.7 %
	1,4-difluorobenzene	88.9 %
	Bromochlorobenzene	96.2 %

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 28-7 #182


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**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	ConocoPhillips	Project #:	96052-1677
Sample ID:	Sides Composite	Date Reported:	04-30-10
Laboratory Number:	53928	Date Sampled:	04-29-10
Chain of Custody:	9223	Date Received:	04-29-10
Sample Matrix:	Soil	Date Analyzed:	04-30-10
Preservative:	Cool	Date Extracted:	04-29-10
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	2.1	1.0
Ethylbenzene	3.4	1.0
p,m-Xylene	30.3	1.2
o-Xylene	11.0	0.9
Total BTEX	46.8	

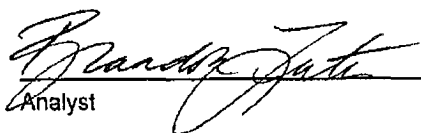
ND - Parameter not detected at the stated detection limit.

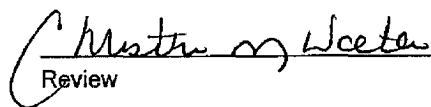
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	94.6 %
	1,4-difluorobenzene	98.8 %
	Bromochlorobenzene	97.3 %

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 28-7 #182


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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	04-30-BTEX QA/QC	Date Reported:	04-30-10
Laboratory Number:	53869	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-30-10
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range: 0 - 15%			
Benzene	1.4098E+006	1.4126E+006	0.2%	ND	0.1
Toluene	1.3008E+006	1.3034E+006	0.2%	ND	0.1
Ethylbenzene	1.1663E+006	1.1686E+006	0.2%	ND	0.1
p,m-Xylene	2.8948E+006	2.9006E+006	0.2%	ND	0.1
o-Xylene	1.0957E+006	1.0979E+006	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	6.1	5.0	18.0%	0 - 30%	0.9
Toluene	47.0	57.4	22.1%	0 - 30%	1.0
Ethylbenzene	13.1	13.2	0.8%	0 - 30%	1.0
p,m-Xylene	73.2	74.1	1.2%	0 - 30%	1.2
o-Xylene	26.7	26.8	0.4%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	6.1	50.0	51.1	91.1%	39 - 150
Toluene	47.0	50.0	93.8	96.7%	46 - 148
Ethylbenzene	13.1	50.0	51.2	81.1%	32 - 160
p,m-Xylene	73.2	100	167	96.2%	46 - 148
o-Xylene	26.7	50.0	72.7	94.7%	46 - 148

ND - Parameter not detected at the stated detection limit.

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 53869, 53870, 53880, 53881 and 53925 - 53828.

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09223

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