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

30-039-22741

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company **ConocoPhillips Company**		Contact **Kelsi Harrington**	
Address **3401 E. 30th St., Farmington, NM 87402**		Telephone No. **505-599-3403**	
Facility Name **San Juan 31-6 Unit 7A**		Facility Type **Gas Well API #3003922749**	
Surface Owner **Federal**	Mineral Owner **Federal**		Lease No. **SF-079000A**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	**01**	**30N**	**07W**	**990'**	**South**	**1830'**	**East**	**Rio Arriba**

Latitude 36.8369598° N Longitude -107.51869° W

NATURE OF RELEASE

Type of Release – **Condensate**	Volume of Release – **6.5 BBL**	Volume Recovered – **0 BBL**
Source of Release: **Production Tank**	Date and Hour of Occurrence **Unknown**	Date and Hour of Discovery **4/28/11 12:00 p.m.**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour –	
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.* **The tank was leaking due to a crack in the weld under the drain valve collar. Upon discovery, the well was shut in.**

Describe Area Affected and Cleanup Action Taken.* **All fluid remained within the berm and no fluid was recovered. Confirmation sampling occurred and analytical results were under the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases. The line was repaired.**

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: Kelsi Harrington	OIL CONSERVATION DIVISION	
Printed Name: **Kelsi Harrington**	Approved by District Supervisor:	
Title: **Environmental Consultant**	Approval Date: 10-18-11	Expiration Date:
E-mail Address: **kelsi.g.harrington@conocophillips.com**	Conditions of Approval:	Attached ☐
Date: **5/12/11** Phone: **505-599-3403**		

* Attach Additional Sheets If Necessary

nJK1129355223

RECEIVED
SEP 2011
OIL CONS. DIV. DIST. 3

20

envirotech

September 20, 2011

Project Number 96052-1932

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

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

RE: SPILL ASSESSMENT DOCUMENTATION FOR THE SAN JUAN 31-6 UNIT 7A WELL SITE, RIO ARRIBA COUNTY, NEW MEXICO

Dear Ms. Harrington,

Enclosed please find the field notes and analytical results for spill assessment activities performed at the San Juan 31-6 Unit 7A well site located in Section 1, Township 30 North, Range 7 West, Rio Arriba County, New Mexico. Upon Envirotech personnel's arrival on May 5, 2011, a brief site assessment was conducted. Because distance to surface water is between 200 feet and 1000 feet, the regulatory standards for the site were determined to be 1000 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.

Seven (7) samples were collected from an area around the base of an above ground storage tank (AST) and the below-grade tank where condensate was released due to a leaking valve. Two (2) samples were collected under the AST at diagonal depths of three (3) feet and four (4) feet below ground surface (BGS) with hand auger refusal at four (4) feet. One (1) five (5)-point composite surface sample was collected at a two (2) foot radius about the point of release; see enclosed ***Field Notes*** for sample locations. Three (3) samples were collected five (5) feet from the point of release to the north, east, and south. One (1) sample was collected from three (3) feet BGS at the source of release. All of the samples were screened in the field for TPH using USEPA Method 418.1 except for the sample collected at three (3) foot diagonal BGS. All samples were screened in the field for organic vapors using a photoionization detector (PID); see enclosed ***Field Notes***. Additionally, the samples collected from a two (2) foot radius and four (4) feet diagonal BGS were placed into four (4)-ounce glass jars, capped head space free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015 and for benzene and BTEX using USEPA Method 8021. The samples returned results below regulatory standards for all constituents analyzed; see enclosed ***Analytical Results***. Therefore, Envirotech, Inc. recommends no further action in regards to this incident.

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

Respectfully submitted,
ENVIROTECH, INC.

FOR CRYSTAL
Crystal Delgai
Environmental Field Technician
cdelgai@envirotech-inc.com

Enclosure(s): Field Notes
Analytical Results

Cc: Client File 96052

Client: Conoco Phillips

envirotech
(505) 632-0615 (800) 362-1879
5796 U.S. Hwy 64, Farmington, NM 87401

Location No: 96052
C.O.C. No: 1932

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 1 OF 1
DATE STARTED: 5/5/11
DATE FINISHED: 5/5/11
ENVIRONMENTAL SPECIALIST: CS

LOCATION: NAME: San Juan 31-6 WELL #: Unit 7A
QUAD/UNIT: O SEC: 1 TWP: 30N RNG: 7W PM: NM CNTY: RA ST: NM
QTR/FOOTAGE: 1830 E 990 S CONTRACTOR:

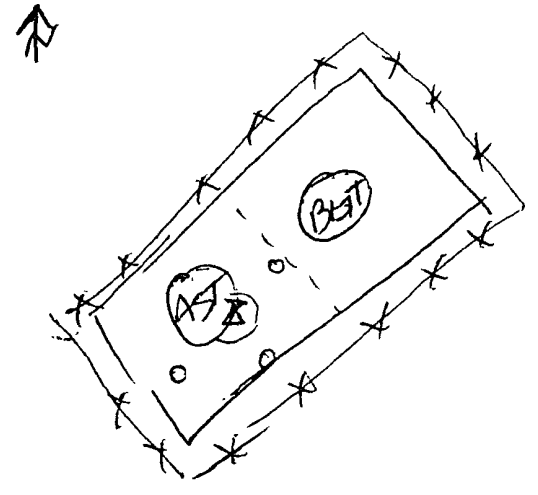
EXCAVATION APPROX: NA FT. X NA FT. X NA FT. DEEP CUBIC YARDAGE: NA
DISPOSAL FACILITY: NA REMEDIATION METHOD: NA
LAND USE: Grazing LEASE: NA LAND OWNER: Federal
CAUSE OF RELEASE: Leak from valve MATERIAL RELEASED: Condensate

SPILL LOCATED APPROXIMATELY: 77 FT. West FROM WH API: 3003922749
DEPTH TO GROUNDWATER: ~~>100~~ >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: 400'
NMOCD RANKING SCORE: ~~20~~ 20 10 NMOCD TPH CLOSURE STD: ~~1000~~ 1000 PPM

SOIL AND EXCAVATION DESCRIPTION:
at 4' Diag under tank hard clay was reached: hand auger refusal
at 3' Vert. hard clay was encountered: hand auger refusal
~~North, East, + South 11 BGS~~

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
200 STD	14:18	—	—	—	—	—	214	—
3' Diagonal	13:79	1		~~5~~	~~20~~	~~4~~	~~488~~	NS/NS
2' 2' Radius	14:25	2		5	20	4	~~1244~~	47/188
4' Diagonal	14:27	3					~~1244~~	311/1244
North of Tank	16:10	4					~~720~~	30/120
East of Tank	16:13	5					~~148~~	37/148
South of Tank	16:15	6					~~172~~	43/172
3' Vertical	16:17	7					~~720~~	180/720

SPILL PERIMETER



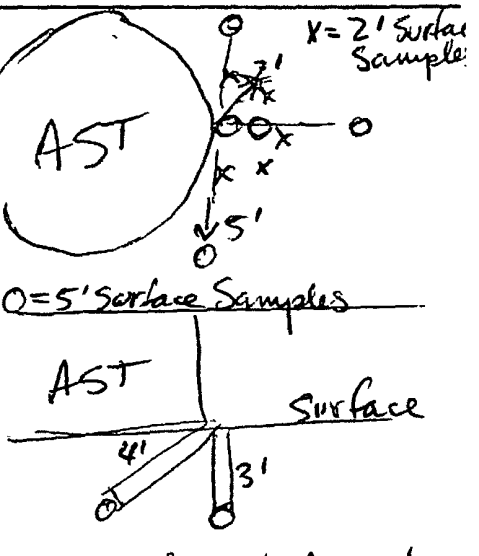
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
100 STD	100
	214
2	20.2
3	328
4	0
5	0
6	0
~~7~~	~~759~~

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
3	8015/8021	18:46
7	8015/8021	5/9/11

SPILL PROFILE



TRAVEL NOTES: CALLED OUT: ONSITE:

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	96052-1932
Sample No.:	2	Date Reported:	8/18/2011
Sample ID:	2' Radius	Date Sampled:	5/5/2011
Sample Matrix:	Soil	Date Analyzed:	5/5/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**188**	**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 31-6 Unit 7A**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

FOR CRYSTAL
Analyst

Review

Crystal Delgai
Printed

Toni McKnight, EIT
Printed

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	96052-1932
Sample No.:	3	Date Reported:	8/18/2011
Sample ID:	4' Diagonal	Date Sampled:	5/5/2011
Sample Matrix:	Soil	Date Analyzed:	5/5/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

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

ND = Parameter not detected at the stated detection limit.

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

Comments: **San Juan 31-6 Unit 7A**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

FOR
Analyst

Crystal Delgai
Printed

Toni McKnight
Review

Toni McKnight, EIT
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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	96052-1932
Sample No.:	4	Date Reported:	8/18/2011
Sample ID:	North of Tank	Date Sampled:	5/5/2011
Sample Matrix:	Soil	Date Analyzed:	5/5/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**120**	**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 31-6 Unit 7A**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

FOR
Analyst

Review

Crystal Delgai
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Toni McKnight, EIT
Printed

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	96052-1932
Sample No.:	5	Date Reported:	8/18/2011
Sample ID:	East of Tank	Date Sampled:	5/5/2011
Sample Matrix:	Soil	Date Analyzed:	5/5/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**148**	**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 31-6 Unit 7A**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

FOR
Analyst

Crystal Delgai
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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	96052-1932
Sample No.:	6	Date Reported:	8/18/2011
Sample ID:	South of Tank	Date Sampled:	5/5/2011
Sample Matrix:	Soil	Date Analyzed:	5/5/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**172**	**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 31-6 Unit 7A**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

FOR
Analyst

Review

Crystal Delgai
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Toni McKnight, EIT
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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	96052-1932
Sample No.:	7	Date Reported:	8/18/2011
Sample ID:	3' Vertical	Date Sampled:	5/5/2011
Sample Matrix:	Soil	Date Analyzed:	5/5/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**720**	**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 31-6 Unit 7A**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

FOR
Analyst

Review

Crystal Delgai
Printed

Toni McKnight, EIT
Printed

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CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 5-May-11

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	214
	500	
	1000	

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

Analyst

8/18/2011
Date

Crystal Delgai
Print Name

Review

8/18/2011
Date

Toni McKnight, EIT
Print Name

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Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	96052-1932
Sample ID:	Surface = 2' Radius	Date Reported:	05-10-11
Laboratory Number:	58122	Sampled:	05-05-11
Chain of Custody No:	11709	Date Received:	05-09-11
Sample Matrix:	Soil	Date Extracted:	05-10-11
Preservative:	Cool	Date Analyzed:	05-10-11
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/San Juan 31-6 #7A**

Analyst

Review

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Analytical Laboratory

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	05-10-11 QA/QC	Date Reported:	05-10-11
Laboratory Number:	58122	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-10-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	40673	9.996E+02	1.000E+03	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	40673	9.996E+02	1.000E+03	**0.04%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**4.3**	**0.2**
Diesel Range C10 - C28	**1.8**	**0.1**

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

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**211**	**84.2%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**225**	**90.1%**	**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 58122, 58124, 58063**

Analyst

Review

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Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-1932
Sample ID:	Surface = 2' Radius	Date Reported:	05-10-11
Laboratory Number:	58122	Date Sampled:	05-05-11
Chain of Custody:	11709	Date Received:	05-09-11
Sample Matrix:	Soil	Date Analyzed:	05-10-11
Preservative:	Cool	Date Extracted:	05-10-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

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

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.3 %**
	1,4-difluorobenzene	**104 %**
	Bromochlorobenzene	**96.9 %**

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 31-6 #7A**

Analyst

Review

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	0510BBLK QA/QC	Date Reported:	05-10-11
Laboratory Number:	58122	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-10-11
Condition:	N/A	Analysis:	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	1.2951E+005	1.2977E+005	0.2%	ND	0.1
Toluene	1.4421E+005	1.4450E+005	0.2%	ND	0.1
Ethylbenzene	1.2483E+005	1.2508E+005	0.2%	ND	0.1
p,m-Xylene	2.9333E+005	2.9392E+005	0.2%	ND	0.1
o-Xylene	1.2345E+005	1.2369E+005	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	ND	ND	0.0%	0 - 30%	1.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0
p,m-Xylene	ND	ND	0.0%	0 - 30%	1.2
o-Xylene	ND	ND	0.0%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	486	97.2%	39 - 150
Toluene	ND	500	493	98.5%	46 - 148
Ethylbenzene	ND	500	486	97.3%	32 - 160
p,m-Xylene	ND	1000	945	94.5%	46 - 148
o-Xylene	ND	500	493	98.7%	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 58122-58124, 58063

Analyst

Review

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CHAIN OF CUSTODY RECORD

11709

Client: ConocoPhillips	Project Name / Location: Confirmation Sampling/San Juan 31-6 #7A
Client Address:	Sampler Name: Crystal Delgai
Client Phone No.:	Client No.: 96052-1932

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl2	Preservative HCl	Preservative Cool	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
Surface: 2' Radius	5/5/11	14:25	58122	(Soil) Sludge Solid Aqueous	1-4oz			/	/	/												✓	✓
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
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				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Crystal Delgai	5/9/11	16:49	[signature]	5/9/11	1649
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

RUSH

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Analytical Laboratory

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Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	96052-1932
Sample ID:	4' Diagonal	Date Reported:	05-09-11
Laboratory Number:	58105	Sampled:	05-05-11
Chain of Custody No:	11697	Date Received:	05-05-11
Sample Matrix:	Soil	Date Extracted:	05-06-11
Preservative:	Cool	Date Analyzed:	05-06-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**146**	**0.2**
Diesel Range (C10 - C28)	**5.5**	**0.1**
Total Petroleum Hydrocarbons	**152**	

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: **Spill Assessment/San Juan 31-6 Unit 7A**

Analyst

Review

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EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	05-06-11 QA/QC	Date Reported:	05-09-11
Laboratory Number:	58105	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-06-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	40669	9.955E+02	9.959E+02	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	40669	9.996E+02	1.000E+03	**0.04%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**1.7**	**0.2**
Diesel Range C10 - C28	**1.3**	**0.1**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Range
Gasoline Range C5 - C10	**146**	**144**	**1.2%**	**0 - 30%**
Diesel Range C10 - C28	**5.5**	**5.2**	**6.1%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**146**	**250**	**414**	**105%**	**75 - 125%**
Diesel Range C10 - C28	**5.5**	**250**	**249**	**97.5%**	**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 58075-58077, 58099-58105**

Analyst

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-1932
Sample ID:	4' Diagonal	Date Reported:	05-09-11
Laboratory Number:	58105	Date Sampled:	05-05-11
Chain of Custody:	11697	Date Received:	05-05-11
Sample Matrix:	Soil	Date Analyzed:	05-06-11
Preservative:	Cool	Date Extracted:	05-06-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**110**	**1.0**
Ethylbenzene	**113**	**1.0**
p,m-Xylene	**2,440**	**1.2**
o-Xylene	**539**	**0.9**
Total BTEX	**3,200**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**94.2 %**
	1,4-difluorobenzene	**90.4 %**
	Bromochlorobenzene	**106 %**

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: **Spill Assessment/San Juan 31-6 Unit 7A**

Analyst

Review

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	0506BBLK QA/QC	Date Reported:	05-09-11
Laboratory Number:	58105	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-06-11
Condition:	N/A	Analysis:	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	1.2132E+005	1.2156E+005	0.2%	ND	0.1
Toluene	1.3731E+005	1.3758E+005	0.2%	ND	0.1
Ethylbenzene	1.2128E+005	1.2152E+005	0.2%	ND	0.1
p,m-Xylene	2.8636E+005	2.8693E+005	0.2%	ND	0.1
o-Xylene	1.2024E+005	1.2048E+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	110	120	9.1%	0 - 30%	1.0
Ethylbenzene	113	104	7.8%	0 - 30%	1.0
p,m-Xylene	2,440	2,420	0.8%	0 - 30%	1.2
o-Xylene	539	539	0.0%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	462	92.4%	39 - 150
Toluene	110	500	607	99.4%	46 - 148
Ethylbenzene	113	500	634	104%	32 - 160
p,m-Xylene	2,440	1000	2,930	85.2%	46 - 148
o-Xylene	539	500	1,040	100%	46 - 148

ND - Parameter not detected at the stated detection limit.

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

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 58075-58077, 58099-58105

Analyst

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CHAIN OF CUSTODY RECORD RUSH 11697

Client:	Project Name / Location:	ANALYSIS / PARAMETERS
CONOCOPHILLIPS	Spill Assessment/San Juan 31-6 Unit 7A	
Client Address:	**Sampler Name:** Crystal Delgai	
Client Phone No.:	**Client No.:** 96052-1932	

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative $HgCl_2$	Preservative HCl	Preservative Cool	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
4' Diagonal	5/5/11	14:22	58105	(Soil) Sludge Solid Aqueous	1-4oz			✓	✓	✓												✓	✓
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
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				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Crystal Delgai	5/5/11	18:46	[illegible]	5/5/11	18:46
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

RUSH

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