

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 Burlington Resources, a Wholly Owned Subsidiary of ConocoPhillips Company	Contact Kelsi Harrington	
Address 3401 E. 30th St., Farmington, NM 87402	Telephone No. 505-599-3403	
Facility Name Neudecker 6E	Facility Type Gas Well API#3004526605	
Surface Owner Federal	Mineral Owner Federal	Lease No. NMSF-079509

LOCATION OF RELEASE

Unit Letter C	Section 14	Township 29N	Range 10W	Feet from the 940'	North/South Line North	Feet from the 1465'	East/West Line West	County San Juan
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Latitude **36.73088° N** Longitude **-107.85774° W**

NATURE OF RELEASE

Type of Release – Historical	Volume of Release – Unknown	Volume Recovered – Unknown
Source of Release: Unknown	Date and Hour of Occurrence	Date and Hour of Discovery 6/2011
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour –	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		

Describe Cause of Problem and Remedial Action Taken.* **Historical hydrocarbon impacted soil was encountered when COPC was removing soils from around a below grade tank. Upon discovery, the soils were sampled and subsequently excavated.**

Describe Area Affected and Cleanup Action Taken.* **Excavation and confirmation sampling occurred. Analytical results were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases; therefore no further action is needed.**

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

Signature: <i>Kelsi Harrington</i>	OIL CONSERVATION DIVISION	
Printed Name: Kelsi Harrington	Approved by District Supervisor: <i>[Signature]</i>	
Title: Environmental Consultant	Approval Date: 10/25/11	Expiration Date:
E-mail Address: kelsi.g.harrington@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/5/2011	Phone: 505-599-3403	

* Attach Additional Sheets If Necessary

NJK 1129854942





October 4, 2011

Project Number 92115-1822

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 NEUDECKER #6E (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 Neudecker #6E (hBr) well site located in Section 14, Township 29 North, Range 10 West, San Juan County, New Mexico. Upon Envirotech personnel'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 between 200 and 1000 feet and distance to groundwater less than 100 feet, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases.

Prior to Envirotech's arrival on July 12, 2011, the area of the release had been excavated by M&M Trucking to extents of approximately 70 feet by 50 feet by 18 feet deep. Five (5) composite samples were collected from the excavation. One (1) sample was collected from the bottom; one (1) sample was collected from the bench; and one (1) sample was collected from each of the west, south, and north walls. All samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID). The composite samples from the bottom of the excavation and from the bench returned results above the regulatory standards for both TPH and organic vapors. The composite samples from the walls returned results below the regulatory standards for both TPH and organic vapors; see enclosed *Field Notes*. One (1) sample was collected from the south wall and 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. The sample returned results below the regulatory standard for TPH; see enclosed *Analytical Results*.

Prior to Envirotech personnel's return on July 15, 2011, the area of the release had been further excavated. Three (3) composite samples were collected from the excavation. One (1) sample was collected from the bottom, one (1) sample was collected from the east wall with the bench, and one (1) sample was collected from the north wall. All samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. The bottom sample returned results below the regulatory standards for all constituents analyzed. The east wall with bench sample returned results below the regulatory standard for TPH, but above the regulatory

standard for organic vapors. The north wall sample returned results above the regulatory standard for TPH, but below the regulatory standard for organic vapors. The east wall with bench and north wall samples were then collected into four (4)-ounce glass jars, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory for analysis. The east wall with bench sample was analyzed for benzene and BTEX using USEPA Method 8021 and the north wall sample was analyzed for TPH using USEPA Method 8015. Both samples returned results below regulatory standards for all constituents analyzed. 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.



Brian Williamson
Senior Environmental Field Technician
bwilliamson@envirotech-inc.com

Enclosure(s): Field Notes
Analytical Results

Cc: Client File 92115

Client: **COPC****envirotech**
(505) 832-0815 (800) 382-1879

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

Location No:

C.O.C. No:

FIELD REPORT: SPILL CLOSURE VERIFICATIONPAGE NO: **1** OF **1**

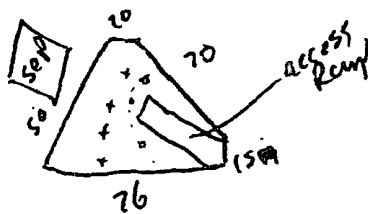
LOCATION: NAME: **New Decker** WELL #: **6E**
QUAD/UNIT: SEC: **14** TWP: **79N** RNG: **10W** PM: **NM** CNTY: **ST** ST: **NM**
QTR/FOOTAGE: CONTRACTOR: **MJM Trucking** ENVIRONMENTAL SPECIALIST: **BWW**

EXCAVATION APPROX: **70** FT. X **50** FT. X **18** FT. DEEP CUBIC YARDAGE:
DISPOSAL FACILITY: **FEI** REMEDIATION METHOD: **Removal**
LAND USE: LEASE: LAND OWNER:
CAUSE OF RELEASE: MATERIAL RELEASED:

SPILL LOCATED APPROXIMATELY: FT. FROM
DEPTH TO GROUNDWATER: NEAREST WATER SOURCE: NEAREST SURFACE WATER:
NMOCD RANKING SCORE: NMOCD TPH CLOSURE STD: PPM
SOIL AND EXCAVATION DESCRIPTION: **collected 1 sample composite from bottom → ①**
bench → ②

200 std → 200

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
Topsoil	9:50	①	-	5	20	4	195	780
Subsoil	9:54	②	-	5	20	4	44	176
Gravel		③	-	5	20	4	17	68
Gravel		④	-	5	20	4	23	92
Gravel		⑤	-	5	20	4	489	1956

SPILL PERIMETER**OV
RESULTS****SPILL PROFILE****X-1**
O-2

Lat
36.73071568
Long: -107.6582299

SAMPLE ID	FIELD HEADSPACE PID (ppm)
①	OVR
②	1400
③	7.1
④	7.5

SW**LAB SAMPLES**

SAMPLE ID	ANALYSIS	TIME

TRAVEL NOTES: _____ CALLED OUT: _____ ONSITE: _____

Client: COPC	 envirotech <small>(800) 832-0618 (800) 382-1879 8788 U.S. Hwy 64, Farmington, NH 07401</small>	Project No: COC No:
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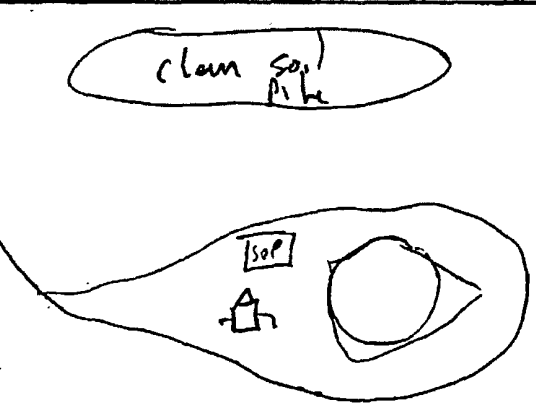
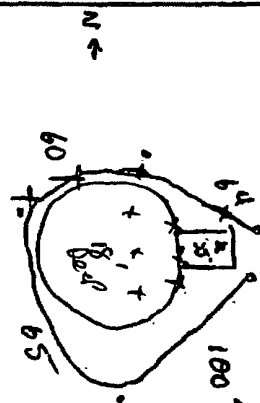
FIELD REPORT: SPILL CLOSURE VERIFICATION						PAGE NO: <u>1</u> OF <u>1</u>	
LOCATION: NAME: <u>Neuducker</u> WELL #: <u>6E</u>						DATE STARTED: <u>7-15-11</u>	
QUAD/UNIT: SEC: TWP: RNG: PM: CNTY: ST:						DATE FINISHED:	
QTR/FOOTAGE: CONTRACTOR:						ENVIRONMENTAL SPECIALIST: <u>BWW</u>	

EXCAVATION APPROX:	FT. X	FT. X	FT. DEEP CUBIC YARDAGE:
DISPOSAL FACILITY:	REMEDIALATION METHOD:		
LAND USE:	LEASE:	LAND OWNER:	
CAUSE OF RELEASE:	MATERIAL RELEASED:		

SPILL LOCATED APPROXIMATELY:	FT.	FROM
DEPTH TO GROUNDWATER:	NEAREST WATER SOURCE:	NEAREST SURFACE WATER:
NMOC D RANKING SCORE:	NMOC D TPH CLOSURE STD:	PPM

SOIL AND EXCAVATION DESCRIPTION: Excavation completed ⇒ Samples collected from Bottom, North wall and east wall w/ bench, called Kelsi (COPC) turn in for 8015 8021 as necessary w/ RUSH

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
<u>Bottom Comp</u>	<u>12:00</u>	<u>1</u>		<u>5</u>	<u>20</u>	<u>4</u>	<u>12</u>	<u>48</u>
<u>East Wall w/bench</u>	<u>12:08</u>	<u>2</u>		<u>5</u>	<u>20</u>	<u>4</u>	<u>18</u>	<u>60</u>
<u>North Wall</u>	<u>12:16</u>	<u>3</u>		<u>5</u>	<u>20</u>	<u>4</u>	<u>567</u>	<u>2268</u>

SPILL PERIMETER	OVM RESULTS	SPILL PROFILE																												
	<table border="1" style="width:100%"> <thead> <tr> <th>SAMPLE ID</th><th>FIELD HEADSPACE PID (ppm)</th></tr> </thead> <tbody> <tr><td>1</td><td>8.1</td></tr> <tr><td>2</td><td>171</td></tr> <tr><td>3</td><td>12.4</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> </tbody> </table>	SAMPLE ID	FIELD HEADSPACE PID (ppm)	1	8.1	2	171	3	12.4																					
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TRAVEL NOTES: _____	CALLED OUT: _____	ONSITE: _____
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**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-1822
Sample No.:	1	Date Reported:	10/4/2011
Sample ID:	Bottom	Date Sampled:	7/12/2011
Sample Matrix:	Soil	Date Analyzed:	7/12/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	780	5.0

ND = Parameter not detected at the stated detection limit.

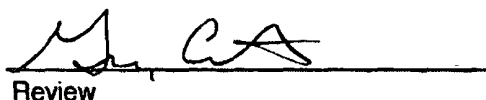
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Neudecker #6E (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson
Printed


Review

Greg Crabtree, PE
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-1822
Sample No.:	2	Date Reported:	10/5/2011
Sample ID:	Bench	Date Sampled:	7/12/2011
Sample Matrix:	Soil	Date Analyzed:	7/12/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

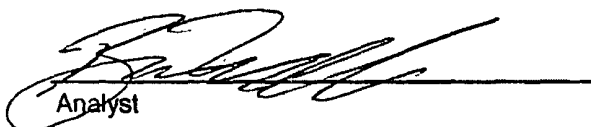
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	176	5.0

ND = Parameter not detected at the stated detection limit.

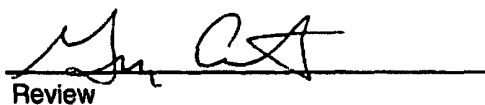
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Neudecker #6E (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson
Printed


Review

Greg Crabtree, PE
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-1822
Sample No.:	3	Date Reported:	10/5/2011
Sample ID:	West Wall	Date Sampled:	7/12/2011
Sample Matrix:	Soil	Date Analyzed:	7/12/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	68	5.0

ND = Parameter not detected at the stated detection limit.

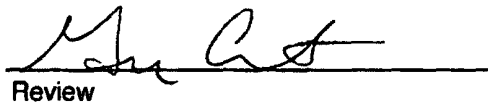
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Neudecker #6E (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson
Printed


Review

Greg Crabtree, PE
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-1822
Sample No.:	4	Date Reported:	10/5/2011
Sample ID:	South Wall	Date Sampled:	7/12/2011
Sample Matrix:	Soil	Date Analyzed:	7/12/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	92	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: Neudecker #6E (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson
Printed


Review

Greg Crabtree, PE
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-1822
Sample No.:	5	Date Reported:	10/5/2011
Sample ID:	North Wall	Date Sampled:	7/12/2011
Sample Matrix:	Soil	Date Analyzed:	7/12/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		


Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	1,960	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: Neudecker #6E (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson
Printed


Review

Greg Crabtree, PE
Printed



CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 12-Jul-11

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

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


Analyst

10/4/2011
Date

Barian Williamson
Print Name


Review

10/4/2011
Date

Greg Crabtree, PE
Print Name



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-1822
Sample No.:	1	Date Reported:	10/4/2011
Sample ID:	Bottom Composite	Date Sampled:	7/15/2011
Sample Matrix:	Soil	Date Analyzed:	7/15/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	48	5.0

ND = Parameter not detected at the stated detection limit.

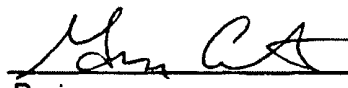
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Neudecker #6E (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson
Printed


Review

Greg Crabtree, PE
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-1822
Sample No.:	2	Date Reported:	10/5/2011
Sample ID:	East Wall w/Bench	Date Sampled:	7/15/2011
Sample Matrix:	Soil	Date Analyzed:	7/15/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		


Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	60	5.0

ND = Parameter not detected at the stated detection limit.

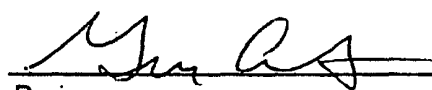
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Neudecker #6E (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson
Printed


Review

Greg Crabtree, PE
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-1822
Sample No.:	3	Date Reported:	10/5/2011
Sample ID:	North Wall	Date Sampled:	7/15/2011
Sample Matrix:	Soil	Date Analyzed:	7/15/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	2,270	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: Neudecker #6E (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson
Printed


Review

Greg Crabtree, PE
Printed




CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 15-Jul-11


Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	198
	200	
	500	
	1000	

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


Analyst

10/4/2011
Date

Barian Williamson
Print Name


Review

10/4/2011
Date

Greg Crabtree, PE
Print Name

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

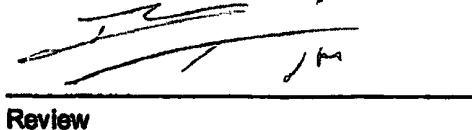
Client:	ConocoPhillips	Project #:	92115-1822
Sample ID:	North Wall	Date Reported:	07-18-11
Laboratory Number:	58958	Sampled:	07-15-11
Chain of Custody No:	12190	Date Received:	07-15-11
Sample Matrix:	Soil	Date Extracted:	07-18-11
Preservative:	Cool	Date Analyzed:	07-18-11
Condition:	Intact	Analysis Requested:	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: Neudecker 6E


Analyst
Review

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

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	07-18-11 QA/QC	Date Reported:	07-18-11
Laboratory Number:	58958	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-18-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	07/18/11	9.998E+02	1.000E+03	0.04%	0 - 15%
Diesel Range C10 - C28	07/18/11	9.998E+02	1.000E+03	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	3.3	0.2
Diesel Range C10 - C28	2.2	0.1

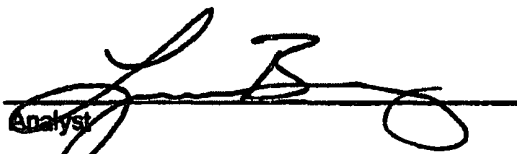
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Range
Gasoline Range C5 - C10	ND	ND	0.00%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.00%	0 - 30%

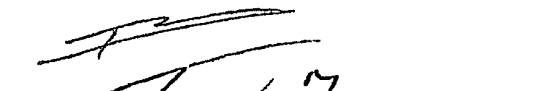
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	260	104%	75 - 125%
Diesel Range C10 - C28	ND	250	247	98.9%	75 - 125%

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 1986.

Comments: QA/QC for Samples 58958, 58960-58961, 58965-58967


 Analyst


 Review

Client:	ConocoPhillips	Project #:	92116-1822
Sample ID:	East Wall w/ Bench	Date Reported:	07-18-11
Laboratory Number:	58957	Date Sampled:	07-15-11
Chain of Custody:	12190	Date Received:	07-15-11
Sample Matrix:	Soil	Date Analyzed:	07-18-11
Preservative:	Cool	Date Extracted:	07-18-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	14.0	0.9
Toluene	5.4	1.0
Ethylbenzene	16.1	1.0
p,m-Xylene	202	1.2
o-Xylene	11.4	0.9
Total BTEX	249	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	86.8 %
	1,4-difluorobenzene	100 %
	Bromochlorobenzene	95.9 %

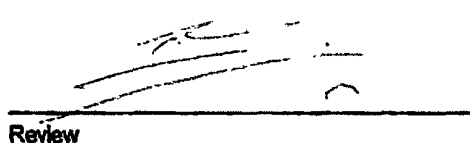
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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

Comments: Neudecker 6E



Analyst



Review

Client:	N/A	Project #:	N/A
Sample ID:	0718BBLK QA/QC	Date Reported:	07-18-11
Laboratory Number:	58964	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-18-11
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	3.5647E+008	3.5719E+008	0.2%	ND	0.1
Toluene	3.6249E+008	3.6322E+008	0.2%	ND	0.1
Ethylbenzene	3.1897E+008	3.1961E+008	0.2%	ND	0.1
p,m-Xylene	8.9278E+008	8.9457E+008	0.2%	ND	0.1
o-Xylene	2.9578E+008	2.9637E+008	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	1.4	1.4	0.0%	0 - 30%	1.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0
p,m-Xylene	2.1	2.3	9.5%	0 - 30%	1.2
o-Xylene	1.6	1.6	0.0%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	534	107%	39 - 150
Toluene	1.4	500	539	108%	46 - 148
Ethylbenzene	ND	500	524	105%	32 - 160
p,m-Xylene	2.1	1000	1,060	106%	46 - 148
o-Xylene	1.6	500	536	107%	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 Photolysis and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 58957, 58960-58961, 58964-58966

Analyst

Review

CHAIN OF CUSTODY RECORD RUSH 12190

Client: COPC			Project Name / Location: Neudecker 6E			ANALYSIS / PARAMETERS													
Client Address:			Sampler Name: BARIAN WILLIAMSON			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.: 92115-1822																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative													
						H ₂ O	HQ	E ₁											
East wall w/ bench	7/15/11	12:08	58957	Soil Solid Sludge Aqueous	1-402													Y	Y
North wall	7/15/11	12:18	58958	Soil Solid Sludge Aqueous	1-402													Y	Y
* Bottom Comp	7/15/11	12:00	58959	Soil Solid Sludge Aqueous	1-402														
				Soil Solid Sludge Aqueous															
				Soil Solid Sludge Aqueous															
				Soil Solid Sludge Aqueous															
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				Soil Solid Sludge Aqueous															
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date			Time								
			7/15/11	13:06				7/15/11			13:06								
Relinquished by: (Signature)					Received by: (Signature)														
Relinquished by: (Signature)					Received by: (Signature)														

* hold for now, no analysis yet
RUSH



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

Client:	ConocoPhillips	Project #:	92115-1822
Sample ID:	South Wall	Date Reported:	07-13-11
Laboratory Number:	58913	Sampled:	07-12-11
Chain of Custody No:	12169	Date Received:	07-12-11
Sample Matrix:	Soil	Date Extracted:	07-13-11
Preservative:	Cool	Date Analyzed:	07-13-11
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: Neudecker #6E



Analyst



Review



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

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	07-13-11 QA/QC	Date Reported:	07-13-11
Laboratory Number:	58919	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-13-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	07/13/11	9.996E+02	1.000E+03	0.04%	0 - 15%
Diesel Range C10 - C28	07/13/11	1.006E+03	1.008E+03	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	3.7	0.2
Diesel Range C10 - C28	7.9	0.1

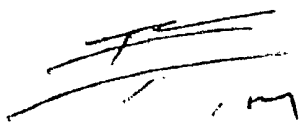
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Range
Gasoline Range C5 - C10	ND	ND	0.00%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.00%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	228	91.4%	75 - 125%
Diesel Range C10 - C28	ND	250	234	93.7%	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 1998.

Comments: QA/QC for Samples 58913, 58919-58920



Analyst



Review

12169

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