

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

30-045-09360

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 Maddox D Federal Com 1	Facility Type Gas Well API #3004509360
Surface Owner Federal	Mineral Owner Federal Lease No. NMNM-0546

LOCATION OF RELEASE

Unit Letter G	Section 23	Township 30N	Range 13W	Feet from the 1840'	North/South Line North	Feet from the 1680'	East/West Line East	County San Juan
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Latitude **36.80101° N** Longitude **-108.17108° W**

NATURE OF RELEASE

Type of Release – Condensate	Volume of Release – 56 BBL	Volume Recovered – 0 BBL
Source of Release: Production Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 2/24/11 11:00 a.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 and Email	
By Whom? Kelsi Harrington	Date and Hour – 2/28/11 3:35 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. RCVD SEP 15 '11	
If a Watercourse was Impacted, Describe Fully.* OIL CONS. DIV.		
Describe Cause of Problem and Remedial Action Taken.* This incident was originally reported as a theft. After further investigation, it was discovered that a release did occur. Upon discovery, immediate notification was given. The release is believed to be the result of a Production tank leak.		
Describe Area Affected and Cleanup Action Taken.* All fluid remained within the berm and no fluid was recovered. The final extents of the excavation were measured at 60 feet by 37 feet by 18 feet deep, in which final extents were reached due to encountering sandstone. The four walls were sampled and returned analytical results were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases; however the bottom at sandstone was sprayed with potassium permanganate solution to aid in the remediation of the remaining impact. The bottom was sampled after application of the solution and returned results over the regulatory standard for total petroleum hydrocarbons (TPH) but the concentration had decreased substantially from the sample collected before application of the potassium permanganate. The sample returned results below regulatory standards for benzene and total BTEX. Reasonable extents of excavation had been reached and NMOCD approved the excavation for backfill; therefore no further action 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 Harrington</i>	OIL CONSERVATION DIVISION	
Printed Name: Kelsi Harrington	Approved by District Supervisor: <i>[Signature]</i>	
Title: Environmental Consultant	Approval Date: 10/11/11	Expiration Date:
E-mail Address: kelsi.g.harrington@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 9/14/11 Phone: 505-599-3403		

* Attach Additional Sheets If Necessary

12K1129234406.

32

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OPERATOR

☒ Initial Report ☐ Final Report

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Facility Name Maddox D Federal Com 1	Facility Type Gas Well API #3004509360
Surface Owner Federal	Mineral Owner Federal Lease No. NMNM-0546

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Describe Cause of Problem and Remedial Action Taken.* This incident was originally reported as a theft. After further investigation, it was discovered that a release did occur. Upon discovery, immediate notification was given. The release is believed to be the result of a Production tank leak.		
Describe Area Affected and Cleanup Action Taken.* All fluid remained within the berm and no fluid was recovered. Excavation and confirmation sampling will occur.		
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: 3/14/11 Phone: 505-599-3403		

* Attach Additional Sheets If Necessary



May 2, 2011

Project Number 92115-1635

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 MADDOX D FEDERAL COM #1 (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 Maddox D Federal Com #1 (hBr) well site located in Section 23, Township 30 North, Range 13 West, San Juan County, New Mexico. Upon arrival, a brief site assessment was conducted, and the regulatory standards for the site were determined to be 1000 parts per million (ppm) total petroleum hydrocarbons (TPH) and 100 ppm organic vapors due to a horizontal distance to surface water between 200 to 1000 feet, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases.

Prior to Envirotech personnel's arrival on March 10, 2011, the area of the release had been excavated to approximately 56 feet by 37 feet by 15 feet deep by M&M Trucking. Five (5) composite samples were collected from the excavation. One (1) sample was collected from the bottom and one (1) composite sample was collected from each of the four (4) walls designated as the north wall, south wall, east wall, and west wall samples; see enclosed *Field Notes*. All samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID). The north and south wall samples returned results below the regulatory standards for all constituents analyzed. The east wall sample returned results below the regulatory standard for TPH, but above the regulatory standard for organic vapors. The west wall and bottom samples returned results above the regulatory standards for both TPH and organic vapors. The west wall was excavated an additional two (2) feet and a composite sample was collected (West Wall 2). The sample was analyzed in the field for TPH and organic vapors and returned results above the regulatory standards for both TPH and organic vapors. The west wall was excavated another two (2) feet and a composite sample was collected (West Wall 3). The sample was analyzed in the field for TPH and organic vapors and returned results below the regulatory standards for all constituents analyzed; see enclosed *Field Notes*. The east wall and bottom samples were then each collected into a four (4)-ounce glass jar, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory for additional analysis. The east wall sample was analyzed for benzene and total BTEX using USEPA Method 8021. The bottom sample was analyzed for TPH using USEPA Method 8015 and for benzene and total BTEX using USEPA Method 8021. The east wall sample returned results below the regulatory standards for all constituents analyzed. The bottom sample returned results below the regulatory standard for benzene, but above the regulatory

standards for total BTEX and TPH; see enclosed *Analytical Results*. Envirotech recommended further excavation of the bottom.


Envirotech personnel returned to the site on March 16, 2011, and the bottom was further excavated by M&M Trucking to approximately 18 feet BGS where sandstone was encountered. One (1) sample was collected from the sandstone bottom and analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. The sample returned results above the regulatory standards for TPH and organic vapors; see enclosed *Field Notes*. The sample collected from the bottom of the excavation 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 and for benzene and total BTEX using USEPA Method 8021. The sample returned results below the regulatory standard for benzene, but above the regulatory standards for TPH and total BTEX; see enclosed *Analytical Results*. The reasonable extents of excavation had been reached due to encountering sandstone. The final excavation measured approximately 60 feet by 37 feet by 18 feet deep.

On March 18, 2011, Envirotech personnel returned to the site to spray a potassium permanganate solution on the bottom of the excavation to aid in the remediation of remaining contamination.

Envirotech personnel returned to the site on March 22, 2011, and collected one (1) sample from the bottom of the excavation. The sample was placed in 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 and benzene and total BTEX using USEPA Method 8021. The sample returned results above the regulatory standard for TPH, but the concentration had decreased substantially from the sample collected on March 16, 2011. The sample returned results below regulatory standards for benzene and total BTEX; see enclosed *Analytical Results*. Reasonable extents of excavation had been reached; 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.


Toni McKnight, EIT
Environmental Project Manager
tmcknight@envirotech-inc.com

Enclosure(s): Field Notes
Analytical Results
Cc: Client File 92115

Client: CONOCO
92115-1635



Location No:

C.O.C. No:

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 1 OF 1

LOCATION: NAME: MADDOX D FEDERAL CORP WELL #: 1
QUAD/UNIT: SEC: 23 TWP: 30N RNG: 34W PM: NM CNTY: ST. NM
QTR/FOOTAGE: 1840' FNC & 1680' FEL CONTRACTOR: MAM

DATE STARTED: 3/10/11
DATE FINISHED: 3/22/11
ENVIRONMENTAL
SPECIALIST: T. McNaught

EXCAVATION APPROX: 60 FT. X 37 FT. X 15 FT. DEEP CUBIC YARDAGE:
DISPOSAL FACILITY: IEI REMEDIATION METHOD: LANDFARM
LAND USE: Recreational LEASE: NM NM-0548 LAND OWNER:
CAUSE OF RELEASE: AST TANK MATERIAL RELEASED: CONDENSATE

SPILL LOCATED APPROXIMATELY: 50 FT. 91° FROM Wellhead
DEPTH TO GROUNDWATER: 7100 NEAREST WATER SOURCE: 71000 NEAREST SURFACE WATER: 2800
NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1,000 PPM

SOIL AND EXCAVATION DESCRIPTION:

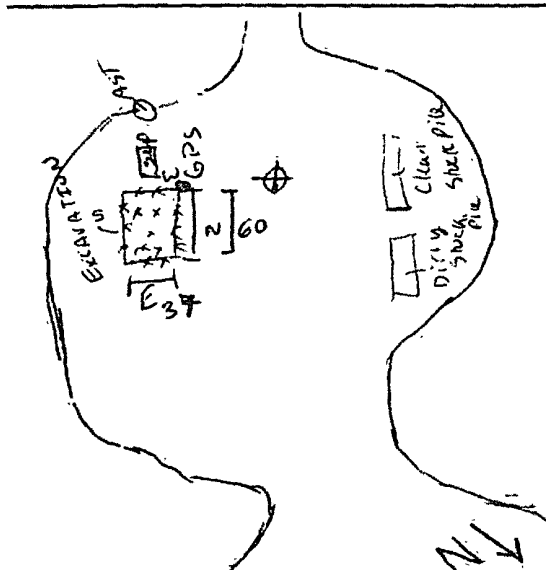
EXCAVATION DUG UPON ARRIVAL - West Wall 2 & West Wall 3 approximately 2 ft
Additionally West.

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
200 STD	11:43	—	—	—	—	—	207	—
NORTH WALL	12:05	1	—	5	20	4	11	44
SOUTH WALL	12:07	2	—	5	20	4	14	56
EAST WALL	12:09	3	1	5	20	4	20	80
WEST WALL	12:30	4	2	5	20	40	250	10,000
BOTTOM CORNER	12:36	5	2	5	20	40	60	2,400
WEST WALL 2	13:26	6	—	5	20	40	46	1,840
WEST WALL 3	14:07	7	—	5	20	4	26	104

SPILL PERIMETER

OV
RESULTS

SPILL PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1	12.3
2	26.6
3	254.0
4	1045.0
5	833.0
6	687.0
7	0.0

LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME



x = samples

RAVEL NOTES: _____ CALLED OUT: _____ ONSITE: 11:00



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

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

Project #: 92115-1635
Date Reported: 4/7/2011
Date Sampled: 3/10/2011
Date Analyzed: 3/10/2011
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	44	5.0

ND = Parameter not detected at the stated detection limit.

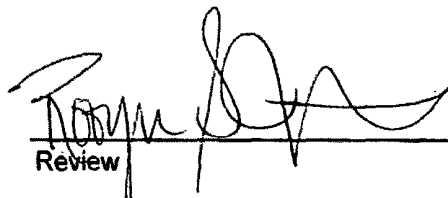
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Maddox D Federal Com #1 (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Toni McKnight, EIT
Printed


Review
Robyn Jones, EIT
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client: ConocoPhillips
Sample No.: 2
Sample ID: South Wall
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-1635
Date Reported: 4/7/2011
Date Sampled: 3/10/2011
Date Analyzed: 3/10/2011
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	56	5.0

ND = Parameter not detected at the stated detection limit.

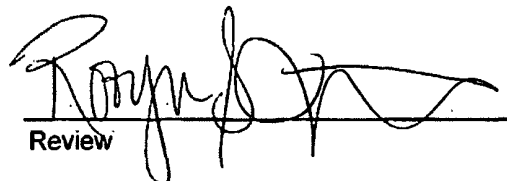
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Maddox D Federal Com #1 (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Toni McKnight, EIT
Printed


Review

Robyn Jones, EIT
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-1635
Sample No.:	3	Date Reported:	4/7/2011
Sample ID:	East Wall	Date Sampled:	3/10/2011
Sample Matrix:	Soil	Date Analyzed:	3/10/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	80	5.0

ND = Parameter not detected at the stated detection limit.

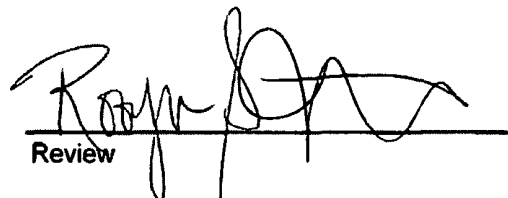
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Maddox D Federal Com #1 (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Toni McKnight, EIT
Printed


Review

Robyn Jones, EIT
Printed



**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 #: 92115-1635
Date Reported: 4/7/2011
Date Sampled: 3/10/2011
Date Analyzed: 3/10/2011
Analysis Needed: TPH-418.1

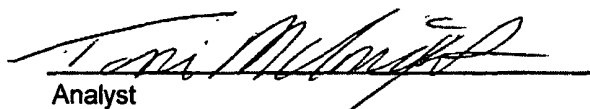
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	10,000	5.0

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.

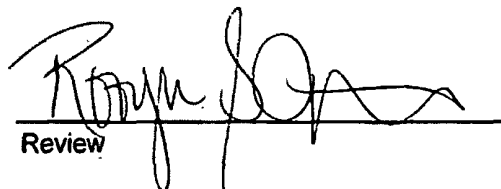
Comments: **Maddox D Federal Com #1 (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample



Analyst

Toni McKnight, EIT
Printed



Review

Robyn Jones, EIT
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-1635
Sample No.:	5	Date Reported:	4/7/2011
Sample ID:	Bottom Composite	Date Sampled:	3/10/2011
Sample Matrix:	Soil	Date Analyzed:	3/10/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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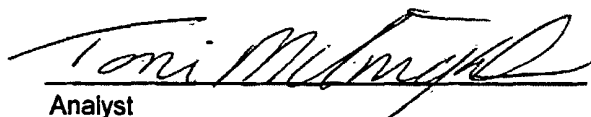
Total Petroleum Hydrocarbons	2,400	5.0
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ND = Parameter not detected at the stated detection limit.

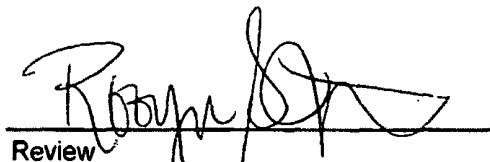
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Maddox D Federal Com #1 (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Toni McKnight, EIT
Printed


Review

Robyn Jones, EIT
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-1635
Sample No.:	6	Date Reported:	4/7/2011
Sample ID:	West Wall 2	Date Sampled:	3/10/2011
Sample Matrix:	Soil	Date Analyzed:	3/10/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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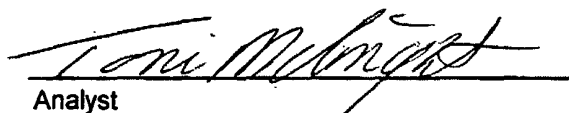
Total Petroleum Hydrocarbons	1,840	5.0
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ND = Parameter not detected at the stated detection limit.

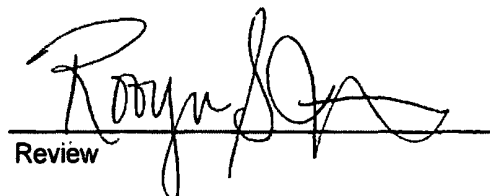
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Maddox D Federal Com #1 (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Toni McKnight, EIT
Printed


Review

Robyn Jones, EIT
Printed



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-1635
Sample No.:	7	Date Reported:	4/7/2011
Sample ID:	West Wall 3	Date Sampled:	3/10/2011
Sample Matrix:	Soil	Date Analyzed:	3/10/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	104	5.0

ND = Parameter not detected at the stated detection limit.

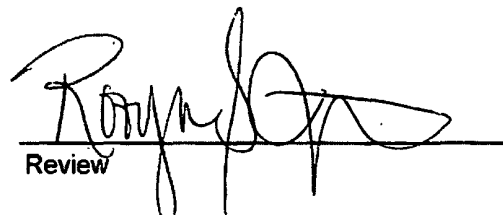
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Maddox D Federal Com #1 (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

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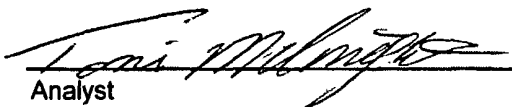


CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 10-Mar-11

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	207
	200	
	500	
	1000	

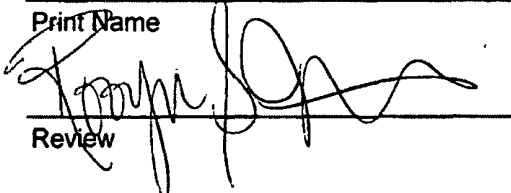
The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.


Analyst

4/7/2011
Date

Toni McKnight, EIT

Print Name


Review

4/7/2011
Date

Robyn Jones, EIT

Print Name

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

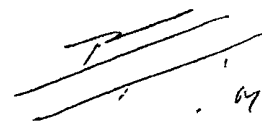
Client:	ConocoPhillips	Project #:	92115-1635
Sample ID:	Bottom Comp	Date Reported:	03-11-11
Laboratory Number:	57546	Date Sampled:	03-10-11
Chain of Custody No:	11324	Date Received:	03-10-11
Sample Matrix:	Soil	Date Extracted:	03-10-11
Preservative:	Cool	Date Analyzed:	03-10-11
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,530	0.2
Diesel Range (C10 - C28)	243	0.1
Total Petroleum Hydrocarbons	1,770	

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: **Maddox D Federal Com #1 (hBr)**



Analyst



Review

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	03-10-11 QA/QC	Date Reported:	03-11-11
Laboratory Number:	57542	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-10-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	03-10-11	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	03-10-11	9.9960E+002	1.0000E+003	0.04%	0 - 15%

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


Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	617	631	2.2%	0 - 30%
Diesel Range C10 - C28	4,180	4,350	4.0%	0 - 30%


Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	617	250	719	83.0%	75 - 125%
Diesel Range C10 - C28	4,180	250	4,230	95.5%	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 57542, 57544, 57546


 Analyst


 Review

Client:	ConocoPhillips	Project #:	92115-1635
Sample ID:	East Wall	Date Reported:	03-11-11
Laboratory Number:	57545	Date Sampled:	03-10-11
Chain of Custody:	11324	Date Received:	03-10-11
Sample Matrix:	Soil	Date Analyzed:	03-10-11
Preservative:	Cool	Date Extracted:	03-10-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	ND	1.0
Ethylbenzene	484	1.0
p,m-Xylene	442	1.2
o-Xylene	ND	0.9
Total BTEX	926	

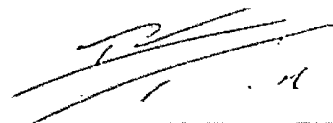
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	106 %
	1,4-difluorobenzene	125 %
	Bromochlorobenzene	117 %

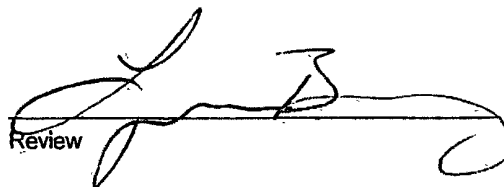
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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

Comments: **Maddox D Federal Com #1 (hBr)**



 Analyst



 Review

Client:	ConocoPhillips	Project #:	92115-1635
Sample ID:	Bottom Comp	Date Reported:	03-11-11
Laboratory Number:	57546	Date Sampled:	03-10-11
Chain of Custody:	11324	Date Received:	03-10-11
Sample Matrix:	Soil	Date Analyzed:	03-10-11
Preservative:	Cool	Date Extracted:	03-10-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	188	0.9
Toluene	33,900	1.0
Ethylbenzene	14,400	1.0
p,m-Xylene	103,000	1.2
o-Xylene	30,200	0.9
Total BTEX	182,000	


ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	87.8 %
	1,4-difluorobenzene	98.9 %
	Bromochlorobenzene	106 %

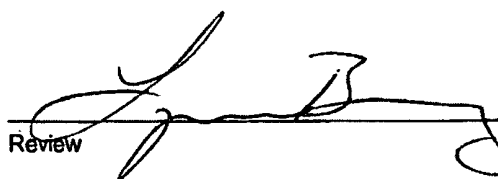
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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

Comments: Maddox D Federal Com #1 (hBr)



 Analyst



 Review

Client:	N/A	Project #:	N/A
Sample ID:	0310BBLK QA/QC	Date Reported:	03-11-11
Laboratory Number:	57543	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-10-11
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	4.1282E+006	4.1365E+006	0.2%	ND	0.1
Toluene	1.2631E+006	1.2656E+006	0.2%	ND	0.1
Ethylbenzene	9.8246E+005	9.8442E+005	0.2%	ND	0.1
p,m-Xylene	2.1470E+006	2.1513E+006	0.2%	ND	0.1
o-Xylene	8.1223E+005	8.1386E+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	5.3	5.2	1.9%	0 - 30%	1.2
o-Xylene	4.0	3.7	7.5%	0 - 30%	0.9

Spike Conc: (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	553	111%	39 - 150
Toluene	ND	500	593	119%	46 - 148
Ethylbenzene	ND	500	576	115%	32 - 160
p,m-Xylene	5.3	1000	1,140	113%	46 - 148
o-Xylene	4.0	500	550	109%	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 57542-57546

Analyst

Review

KUSH

CHAIN OF CUSTODY RECORD

11524

Client: CONOCOPHILLIPS			Project Name / Location: MADDOX D FEDERAL COM #1 (hbr)			ANALYSIS / PARAMETERS																	
Client Address:			Sampler Name: T. McKnight																				
Client Phone No.:			Client No.: 92115-1635																				
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative H ₂ O ₂ HCl Oil			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	
EASTWALL	3/10/11	12:09	57545	Soil Solid	1/402				✓	✓												✓	✓
BOTTOM COMP	3/10/11	12:36	57546	Soil Solid	1/402				✓	✓	✓												
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous																		
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				Soil Solid	Sludge Aqueous																		
Relinquished by: (Signature) <i>Toni Miller</i>				Date 3/10/11	Time 15:09	Received by: (Signature) <i>[Signature]</i>				Date 3/10	Time 1509												
Relinquished by: (Signature)						Received by: (Signature)																	
Relinquished by: (Signature)						Received by: (Signature)																	

RUSH



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TRAVEL NOTES: CALLED OUT: ONSITE:



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

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

Project #: 92115-1635
Date Reported: 4/7/2011
Date Sampled: 3/16/2011
Date Analyzed: 3/16/2011
Analysis Needed: TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	4,660	5.0

ND = Parameter not detected at the stated detection limit.

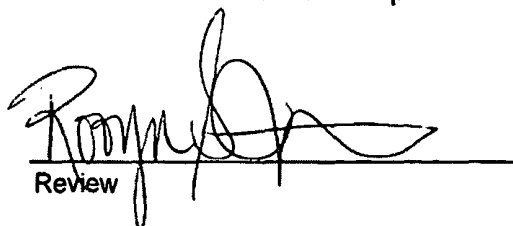
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Maddox D Federal Com #1 (hBr)

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Toni McKnight, EIT
Printed


Review

Robyn Jones, EIT
Printed

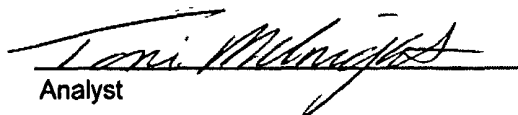


CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 16-Mar-11

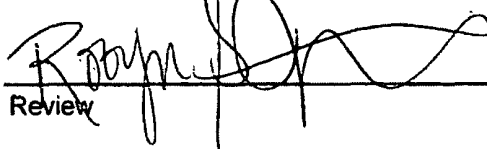
Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	187
	500	
	1000	

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


Analyst

4/7/2011
Date

Toni McKnight, EIT
Print Name


Review

4/7/2011
Date

Robyn Jones, EIT
Print Name

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


Client:	ConocoPhillips	Project #:	92115-1635
Sample ID:	Bottom	Date Reported:	03-17-11
Laboratory Number:	57590	Date Sampled:	03-16-11
Chain of Custody No:	11361	Date Received:	03-16-11
Sample Matrix:	Soil	Date Extracted:	03-16-11
Preservative:	Cool	Date Analyzed:	03-17-11
Condition:	Intact	Analysis Requested:	8015 TPH

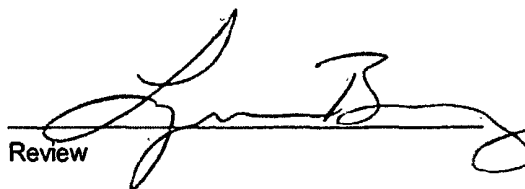
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2,410	0.2
Diesel Range (C10 - C28)	662	0.1
Total Petroleum Hydrocarbons	3,070	

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: **Maddox D Fed Com #1 (hBr)**



Analyst

Review

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	03-16-11 QA/QC	Date Reported:	03-17-11
Laboratory Number:	57570	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-16-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	03-16-11	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	03-16-11	9.9960E+002	1.0000E+003	0.04%	0 - 15%

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


Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	15.2	14.6	3.9%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	15.2	250	270	102%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100%	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 57566-57570, 57578-57584, 57586-57590


 Analyst


 Review

Client:	ConocoPhillips	Project #:	92115-1635
Sample ID:	Bottom	Date Reported:	03-17-11
Laboratory Number:	57590	Date Sampled:	03-16-11
Chain of Custody:	11361	Date Received:	03-16-11
Sample Matrix:	Soil	Date Analyzed:	03-17-11
Preservative:	Cool	Date Extracted:	03-16-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	174	0.9
Toluene	24,400	1.0
Ethylbenzene	13,300	1.0
p,m-Xylene	58,400	1.2
o-Xylene	23,400	0.9
Total BTEX	120,000	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	86.6 %
	1,4-difluorobenzene	91.4 %
	Bromochlorobenzene	104 %

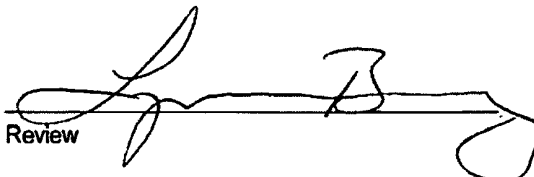
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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

Comments: Maddox D Fed Com #1 (hBr)



Analyst



Review

Client:	N/A	Project #:	N/A
Sample ID:	03178BLK QA/QC	Date Reported:	03-17-11
Laboratory Number:	57590	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-17-11
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	4.4928E+006	4.5018E+006	0.2%	ND	0.1
Toluene	1.4445E+006	1.4473E+006	0.2%	ND	0.1
Ethylbenzene	1.1082E+006	1.1105E+006	0.2%	ND	0.1
p,m-Xylene	2.4786E+006	2.4836E+006	0.2%	ND	0.1
o-Xylene	9.1735E+005	9.1919E+005	0.2%	ND	0.1

Duplicate Conc: (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect Limit
Benzene	174	171	1.6%	0 - 30%	0.9
Toluene	24,400	25,500	4.5%	0 - 30%	1.0
Ethylbenzene	13,300	12,700	4.5%	0 - 30%	1.0
p,m-Xylene	58,400	59,200	1.4%	0 - 30%	1.2
o-Xylene	23,400	22,700	3.0%	0 - 30%	0.9

Spike Conc: (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	174	500	686	102%	39 - 150
Toluene	24,400	500	24,800	99.6%	46 - 148
Ethylbenzene	13,300	500	13,900	101%	32 - 160
p,m-Xylene	58,400	1000	59,100	99.5%	46 - 148
o-Xylene	23,400	500	23,800	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 57588-57591, 57600, 57602

Analyst

Review

CHAIN OF CUSTODY RECORD

11561

Client: <i>Corpus Phillips</i>			Project Name / Location: <i>Madbox D Fel Com #1 (hBr)</i>			ANALYSIS / PARAMETERS													
Client Address:			Sampler Name: <i>TMC</i>			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.: <i>92115-1635</i>																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl ₂ HCl													
<i>Return</i>	<i>3/16/11</i>	<i>9:39</i>	<i>57590</i>	<i>Soil Solid</i>	<i>Sludge Aqueous</i>	<i>4oz</i>												<i>Y</i>	<i>Y</i>
				Soil Solid	Sludge Aqueous														
				Soil Solid	Sludge Aqueous														
				Soil Solid	Sludge Aqueous														
				Soil Solid	Sludge Aqueous														
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				Soil Solid	Sludge Aqueous														
Relinquished by: (Signature) <i>[Signature]</i>				Date <i>3/16/11</i>	Time <i>10:50</i>	Received by: (Signature) <i>Randi Vagueira</i>				Date <i>3/16/11</i>	Time <i>10:50</i>								
Relinquished by: (Signature)						Received by: (Signature)													
Relinquished by: (Signature)						Received by: (Signature)													



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

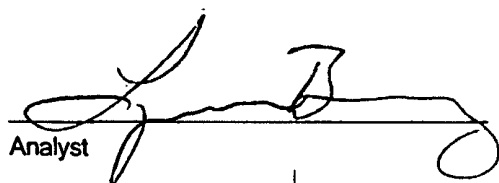
Client:	ConocoPhillips	Project #:	92115-1635
Sample ID:	Sprayed Pit Bottom	Date Reported:	03-22-11
Laboratory Number:	57665	Date Sampled:	03-22-11
Chain of Custody No:	11401	Date Received:	03-22-11
Sample Matrix:	Soil	Date Extracted:	03-22-11
Preservative:	Cool	Date Analyzed:	03-22-11
Condition:	Intact	Analysis Requested:	8015 TPH

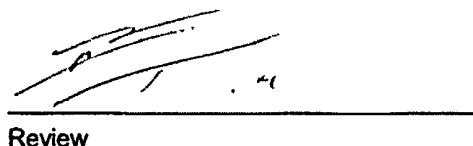
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,150	0.2
Diesel Range (C10 - C28)	205	0.1
Total Petroleum Hydrocarbons	1,350	

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: **Maddox Fed Com D #1**


Analyst


Review

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	03-22-11 QA/QC	Date Reported:	03-22-11
Laboratory Number:	57663	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-22-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	03-22-11	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	03-22-11	9.9960E+002	1.0000E+003	0.04%	0 - 15%

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

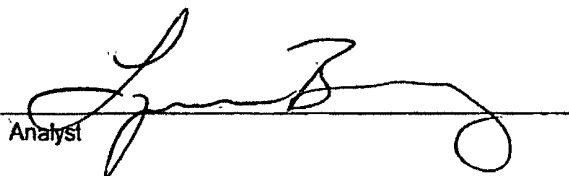
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

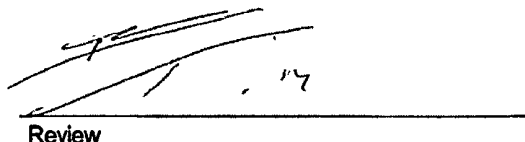
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	253	101%	75 - 125%
Diesel Range C10 - C28	ND	250	244	97.7%	75 - 125%

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 1996.

Comments: QA/QC for Samples 57625-57627, 57661-57663, 57665

Analyst 

Review 

Client:	ConocoPhillips	Project #:	92115-1635
Sample ID:	Sprayed Pit Bottom	Date Reported:	03-22-11
Laboratory Number:	57665	Date Sampled:	03-22-11
Chain of Custody:	11401	Date Received:	03-22-11
Sample Matrix:	Soil	Date Analyzed:	03-22-11
Preservative:	Cool	Date Extracted:	03-22-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	16.9	0.9
Toluene	3,840	1.0
Ethylbenzene	2,630	1.0
p,m-Xylene	31,000	1.2
o-Xylene	6,350	0.9
Total BTEX	43,800	

ND - Parameter not detected at the stated detection limit.

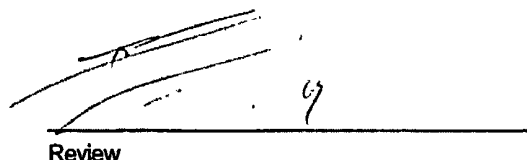
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	91.4 %
	1,4-difluorobenzene	83.1 %
	Bromochlorobenzene	100 %

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: Maddox Fed Com D #1

Analyst 

Review 

Client:	N/A	Project #:	N/A
Sample ID:	03228BLK QA/QC	Date Reported:	03-22-11
Laboratory Number:	57663	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-22-11
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	1.4060E+005	1.4088E+005	0.2%	ND	0.1
Toluene	1.5888E+005	1.5920E+005	0.2%	ND	0.1
Ethylbenzene	1.3758E+005	1.3786E+005	0.2%	ND	0.1
p,m-Xylene	3.1762E+005	3.1826E+005	0.2%	ND	0.1
o-Xylene	1.3595E+005	1.3623E+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	490	98.0%	39 - 150
Toluene	ND	500	492	98.3%	46 - 148
Ethylbenzene	ND	500	485	97.0%	32 - 160
p,m-Xylene	ND	1000	972	97.2%	46 - 148
o-Xylene	ND	500	503	101%	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 57661-57663, 57665, 57588-57589, 57566-57569

Analyst

Review

RUSH

CHAIN OF CUSTODY RECORD

11401

Client: <i>Cross Phillips</i>		Project Name / Location: <i>Madley Fed Con D1</i>				ANALYSIS / PARAMETERS																	
Client Address:		Sampler Name: <i>John Collins</i>																					
Client Phone No.:		Client No.: <i>92115-1635</i>																					
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative H ₂ O ₂ HCl			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
<i>Sprayed Pit Bottom</i>	<i>3/22/11</i>	<i>9:49</i>	<i>57665</i>	<i>Soil Solid</i> Sludge Aqueous	<i><102</i>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												<i>Y</i>	<i>Y</i>
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous																		
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				Soil Solid	Sludge Aqueous																		
Relinquished by: (Signature) <i>[Signature]</i>				Date <i>3/22/11</i>	Time <i>9:30</i>	Received by: (Signature) <i>Randi Vaguera</i>				Date <i>3/22/11</i>	Time <i>9:30</i>												
Relinquished by: (Signature)						Received by: (Signature)																	
Relinquished by: (Signature)						Received by: (Signature)																	

RUSH



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