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 August 8, 2011

Submit 1 Copy to appropriate District Office to accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company **Burlington Resources Oil & Gas Company**	Contact **Crystal Tafoya**
Address 3401 East 30th St, Farmington, NM	Telephone No.(505) 326-9837
Facility Name: **Scott 1R**	Facility Type: **Gas Well**

Surface Owner **BLM**	Mineral Owner **BLM (SF-078604)**	API No.**30-045-28514**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	**29**	**32N**	**10W**	**790**	**North**	**1535**	**East**	**San Juan**

Latitude 36.9612 Longitude 107.90114

NATURE OF RELEASE

Type of Release **Produced Fluids**	Volume of Release **630 yds**	Volume Recovered
Source of Release **Below Grade Tank**	Date and Hour of Occurrence **2/8/2012**	Date and Hour of Discovery
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.*
N/A

RCVD AUG 29 '12
OIL CONS. DIV.
DIST. 3

Describe Cause of Problem and Remedial Action Taken.*
Below Grade Tank Closure Activities

Describe Area Affected and Cleanup Action Taken.*
Historical hydrocarbon impacted soil was found during the BGT closure for the subject well. The excavation was 40'X35'X12' and 630 yds of soil was transported to IEI landfarm and 594 yds of clean soil was transported from Aztec Machine and placed in the excavation site. The soil sampling report is attached for review.

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: Crystal L. Tafoya	OIL CONSERVATION DIVISION Approved by Environmental Specialist: Jonathan D. Kelly
Printed Name: **Crystal Tafoya**	
Title: **Field Environmental Specialist**	Approval Date: 9/06/2012 | Expiration Date:
E-mail Address: crystal.tafoya@conocophillips.com	Conditions of Approval: | Attached ☐
Date: 8/28/12 Phone: (505) 326-9837	

* Attach Additional Sheets If Necessary

nJK1225052407

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February 23, 2012 Project Number 92115-2085

Ms. Shelly Cowden
ConocoPhillips
3401 East 30th Street
Farmington, New Mexico 87401

Phone: (505) 599-3403
Cell: (505) 320-0699

RE: CONFIRMATION SAMPLING DOCUMENTATION FOR THE SCOTT #1R (HBR), SAN JUAN COUNTY, NEW MEXICO

Dear Ms. Cowden,

Enclosed please find the field notes and analytical results for confirmation sampling activities performed at the Scott #1R (hBr) well site located in Section 29, Township 32 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 1000 parts per million (ppm) total petroleum hydrocarbons (TPH) and 100 ppm organic vapors due to a distance to groundwater between 50 feet and 100 feet, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases.

Prior to Envirotech personnel's arrival on February 9, 2012, the area of the release had been excavated to extents of approximately 22 feet by 22 feet by 24 to 42 inches deep. Three (3) composite samples were collected from the excavation. One (1) sample was collected from the north and west walls, one (1) sample was collected from the south and east walls, and one (1) sample was collected from the bottom of the excavation. The samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID). All three (3) samples returned results above the regulatory standard for TPH. The sample collected from the north and west walls returned results below regulatory standards for organic vapors. The samples collected from the south and east walls, and from the bottom returned results above regulatory standards for organic vapors; see enclosed ***Field Notes***. Based on the analytical results, Envirotech recommends further excavation of the area of release.

Upon Envirotech personnel's return to the location on February 10, 2012, the area of release had been excavated into three (3) sections designated as the north section, benched section and south section. The north section was excavated to the extents of 25 feet by 12 feet by 8 feet below ground surface (BGS), the benched section along the west wall was excavated to the extents of 12 feet by 12 feet by 2 feet BGS, and a south section was excavated to the extents of 25 feet by 23 feet by 15 feet BGS. The total area of the excavation is approximately 47 feet by 25 feet; see enclosed ***Field Notes***. Five (5) composite samples were collected from the excavation. One (1) sample from the north and east walls, one (1) sample from the south and west walls, one (1)

sample from the bench, one (1) sample from the bottom north section at 8 feet BGS, and one (1) sample from the bottom south section at 15 feet BGS. The samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. The sample collected from the north and east walls returned results above the regulatory standard for TPH, but below the regulatory standard for organic vapors. The samples collected from the bench, south and west walls, and bottom north section at 8 feet BGS returned results below the regulatory standards for TPH and organic vapors. The sample collected from the bottom south section at 15 feet BGS returned results below the regulatory standards for TPH, but above the regulatory standards for organic vapors; see enclosed ***Field Notes.*** The sample collected from the north and east walls and the sample collected from the bottom south section at 15 feet BGS, 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. The sample from the north and east walls was analyzed for TPH using USEPA Method 8015. The sample from the bottom south section at 15 feet BGS was analyzed for benzene and BTEX using USEPA Method 8021. Both samples returned results below the regulatory standards for all constituents analyzed; see enclosed ***Analytical Results***. Therefore, Envirotech, Inc. recommends no further action in regards to this incident.

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

Respectfully submitted,
ENVIROTECH, INC.

Felipe Aragon
Environmental Field Technician
faragon@envirotech-inc.com

Enclosure(s): Field Notes
Analytical Results

Cc: Client File 92115

Client: ConocoPhillips

envirotech
(505) 632-0615 (600) 362-1879
5796 U.S. Hwy 64, Farmington, NM 87401

Project No: 92115-2085
COC No: No Labs

FIELD REPORT: SPILL CLOSURE VERIFICATION

API: 30045285141

PAGE NO: 1 OF
DATE STARTED: 2-7-12
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: F. Arago

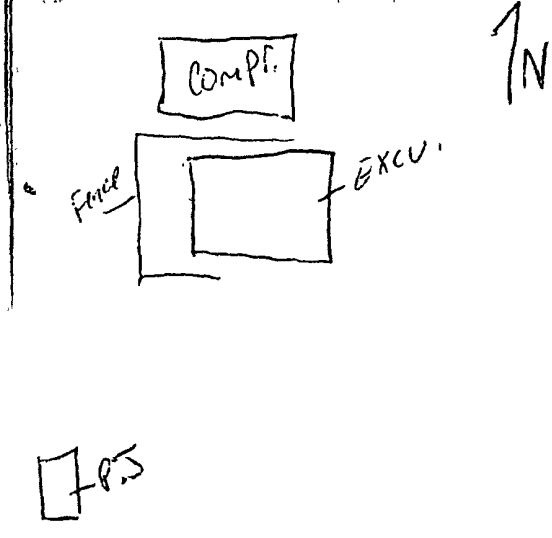
LOCATION: NAME: Scott WELL #: 1R
QUAD/UNIT: I SEC: 29 TWP: 32N RNG: 10W PM: CNTY: SJ ST: NM
QTR/FOOTAGE: 790 N / 1535 E CONTRACTOR: Montoya

EXCAVATION APPROX: 22 FT. X 22 FT. X 24"-42" ~~FT~~. DEEP CUBIC YARDAGE:
DISPOSAL FACILITY: IEI REMEDIATION METHOD:
LAND USE: Range LEASE: LAND OWNER:
CAUSE OF RELEASE: Tank Overflow MATERIAL RELEASED: Produced water / oil

SPILL LOCATED APPROXIMATELY: ~~150~~ 100 FT. NE FROM w.h / PTS
DEPTH TO GROUNDWATER: ~~>100~~ >100 NEAREST WATER SOURCE: ~~1350'~~ 1350' W NEAREST SURFACE WATER: 1282'
NMOCD RANKING SCORE: ~~0~~ 20 10 NMOCD TPH CLOSURE STD: 5000 PPM
SOIL AND EXCAVATION DESCRIPTION:
3 Samples Analyzed – Results above reg STD. Revised to Shelly @ 13:50
Contract Excv.

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
200 STD	13:04	200STD	–	–	–	–	182	←
North 3 West walls	13:15	1	–	5	20	4	341	13644
South 3 East walls	13:18	2	–	5	20	4	1317	52668
Bottom	13:24	3	–	5	20	4	749	29960

SPILL PERIMETER



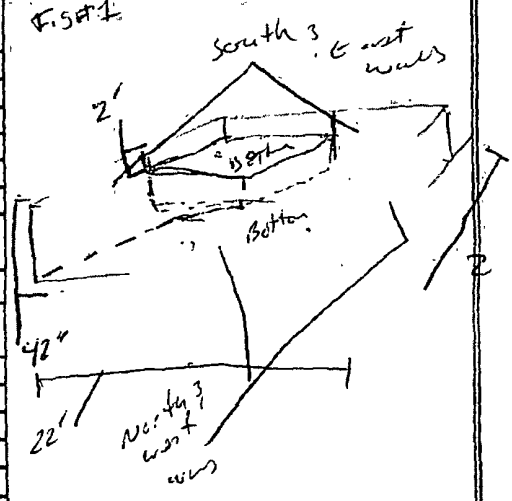
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
100 STD	100 ppm
1	6.9
2	~~107~~ 237
3	107

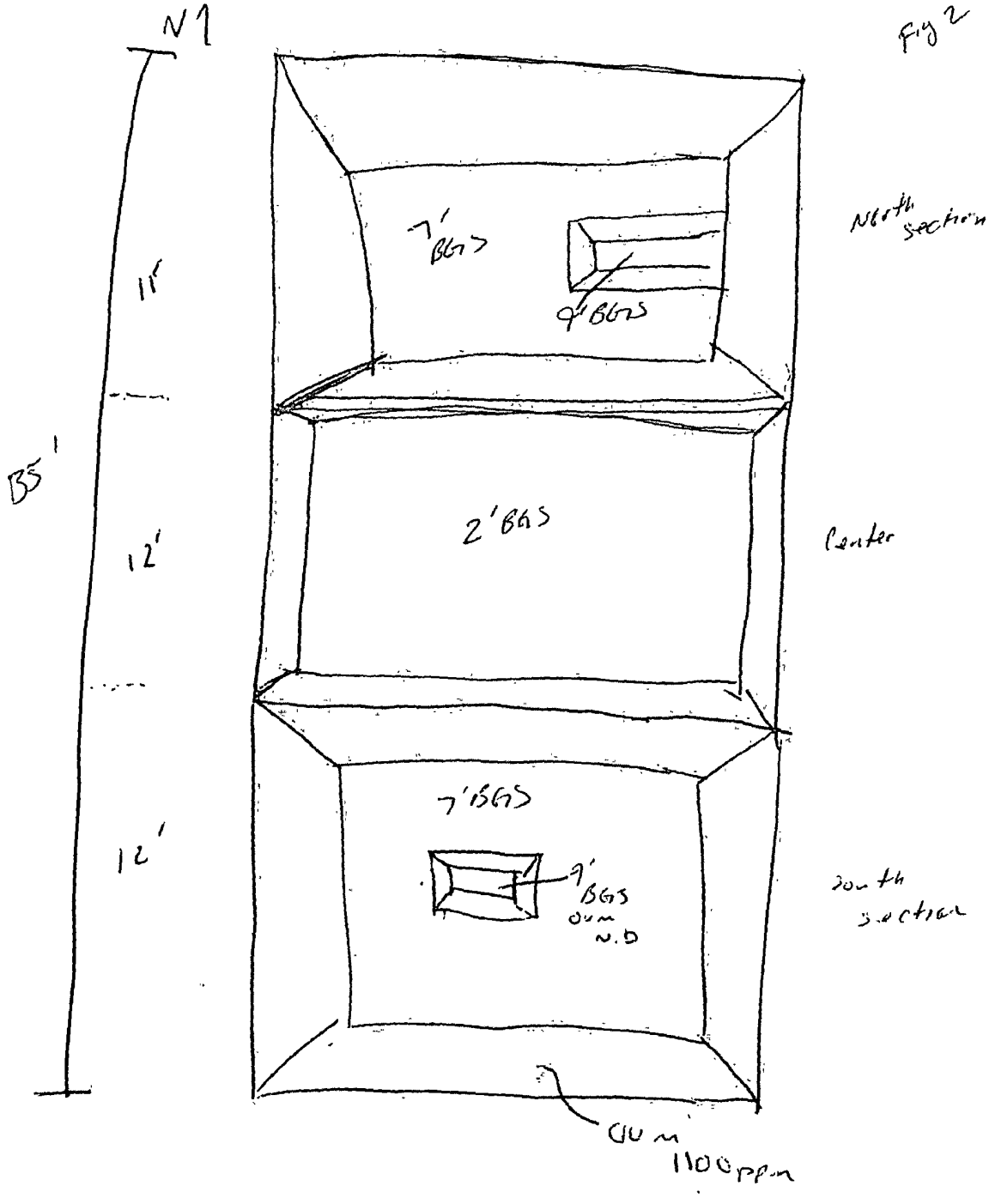
LAB SAMPLES

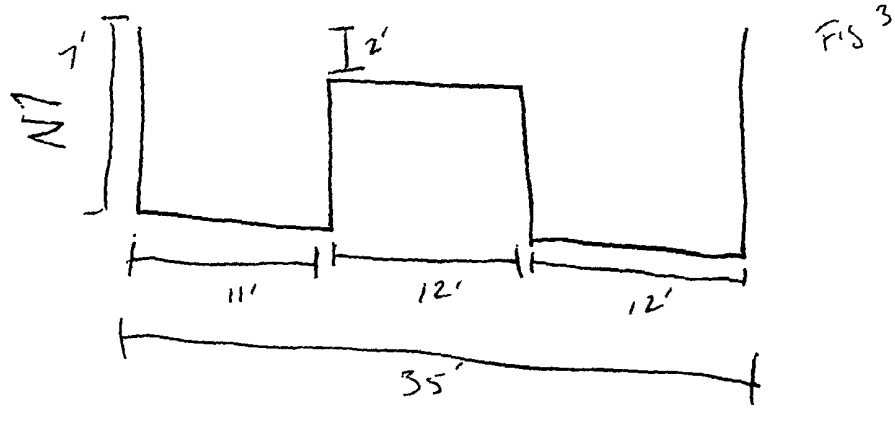
SAMPLE ID	ANALYSIS	TIME

SPILL PROFILE



TRAVEL NOTES: CALLED OUT: ONSITE:


N1
Fig 2
11'
35'
12'
12'
7' BGS
4' BGS
North section
2' BGS
Center
7' BGS
7' BGS
OVM N.D
South section
OVM
1100 ppm


N1
7'
12'
11'
12'
12'
35'
Fig 3

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-2085
Sample No.:	1	Date Reported:	2/14/2012
Sample ID:	North & West Walls	Date Sampled:	2/9/2012
Sample Matrix:	Soil	Date Analyzed:	2/9/2012
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**1,360**	**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: **Scott #1R (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Felipe Aragon
Printed

Review

Toni McKnight, EIT
Printed

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envirotech-inc.com
info@envirotech-inc.com

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-2085
Sample No.:	2	Date Reported:	2/14/2012
Sample ID:	South & East Walls	Date Sampled:	2/9/2012
Sample Matrix:	Soil	Date Analyzed:	2/9/2012
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**5,270**	**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: **Scott #1R (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Felipe Aragon
Printed

Review

Toni McKnight, EIT
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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-2085
Sample No.:	3	Date Reported:	2/14/2012
Sample ID:	Bottom	Date Sampled:	2/9/2012
Sample Matrix:	Soil	Date Analyzed:	2/9/2012
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**3,000**	**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: **Scott #1R (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Felipe Aragon
Printed

Review

Toni McKnight, EIT
Printed

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CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 9-Feb-12

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	182
	500	
	1000	

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

Analyst — Date: 2/14/2012

Felipe Aragon
Print Name

Review — Date: 2/14/2012

Toni McKnight, EIT
Print Name

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envirotech-inc.com
info@envirotech-inc.com

Client:	envirotech (505) 632-0615 (800) 362-1879 5796 U.S. Hwy 64, Farmington, NM 87401	Project No: 92115-2055 COC No: 13391
ConocoPhillips		

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 1 OF

DATE STARTED: 2-10-12

DATE FINISHED:

ENVIRONMENTAL SPECIALIST: E. Aragon

LOCATION: NAME: Scott WELL #: 1R

QUAD/UNIT: SEC: 29 TWP: 32N RNG: 11W PM: CNTY: 55 ST: NM

QTR/FOOTAGE: 790N/1535E CONTRACTOR: Montoya

EXCAVATION APPROX: 47 FT. X 25 FT. X 2-8'-15' FT. DEEP CUBIC YARDAGE:

DISPOSAL FACILITY: IFT REMEDIATION METHOD:

LAND USE: Range LEASE: NMSF-078604 LAND OWNER: Fed

CAUSE OF RELEASE: Tank overflow / 4 shrivel MATERIAL RELEASED: Produced oil/water/condensate

SPILL LOCATED APPROXIMATELY: 100. FT. 55° FROM WH/PJ

DEPTH TO GROUNDWATER: 50-100' NEARSEST WATER SOURCE: NEARSEST SURFACE WATER:

NMOCD RANKING SCORE: 10 NMOCD TPH CLOSURE STD: 1000 PPM

SOIL AND EXCAVATION DESCRIPTION:

Called Shelly @ 13'

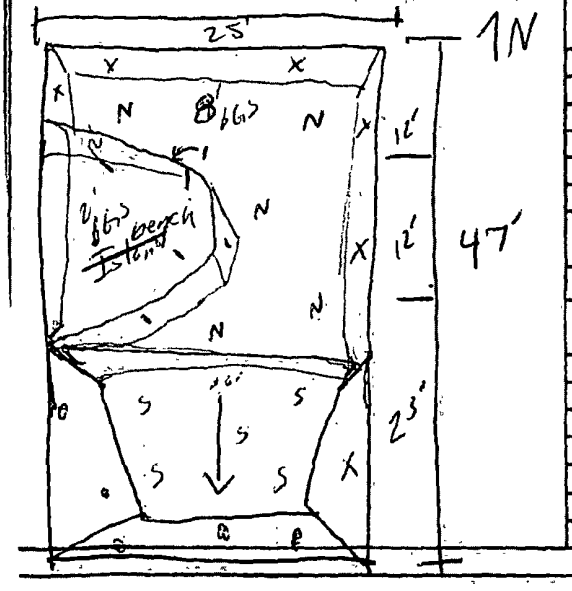
SAMPLE DESCRIPITION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
200 STD	10:40	200STD	-	-	-	-	200	-
Northeast walls	10:55	1	-	5	20	4	641	2564
Island Bench	10:58	2	-	5	20	4	198	792
South West walls	11:41	3	-	5	20	4	189	756
Bottom North Sec.	11:45	4	-	5	20	4	119	476
Bottom South Sec.	12:43	5	-	5	20	4	160	640

N = North Bottom
X = North East walls
SPILL PERIMETER
S = South bottom

I = island
O = South West walls

OVM RESULTS

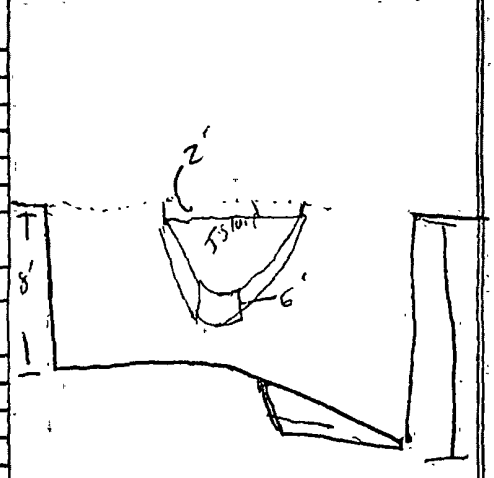
SPILL PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
200STD	200 ppm
1	ND
2	2.6
3	ND
4	ND
5	160

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
1	8015 8021	
2	8021	
3	8021	
4	8021	
5	8021	



TRAVEL NOTES: CALLED OUT: SITE: 9:45

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-2085
Sample No.:	1	Date Reported:	2/14/2012
Sample ID:	North & East Walls	Date Sampled:	2/10/2012
Sample Matrix:	Soil	Date Analyzed:	2/10/2012
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**2,560**	**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: **Scott #1R (hBr)**

Instrument calibrated to 200 ppm standard; Zeroed before each sample

Analyst

Felipe Aragon
Printed

Review

Toni McKnight, EIT
Printed

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info@envirotech-inc.com

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-2085
Sample No.:	2	Date Reported:	2/23/2012
Sample ID:	Bench	Date Sampled:	2/10/2012
Sample Matrix:	Soil	Date Analyzed:	2/10/2012
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**792**	**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: **Scott #1R (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Felipe Aragon
Printed

Review

Toni McKnight, EIT
Printed

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-2085
Sample No.:	3	Date Reported:	2/14/2012
Sample ID:	South & West Walls	Date Sampled:	2/10/2012
Sample Matrix:	Soil	Date Analyzed:	2/10/2012
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**756**	**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: **Scott #1R (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Felipe Aragon
Printed

Review

Toni McKnight, EIT
Printed

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-2085
Sample No.:	4	Date Reported:	2/14/2012
Sample ID:	Bottom North Sec.	Date Sampled:	2/10/2012
Sample Matrix:	Soil	Date Analyzed:	2/10/2012
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**476**	**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: **Scott #1R (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Felipe Aragon
Printed

Review

Toni McKnight, EIT
Printed

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info@envirotech-inc.com

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EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	92115-2085
Sample No.:	5	Date Reported:	2/23/2012
Sample ID:	Bottom South Sec.	Date Sampled:	2/10/2012
Sample Matrix:	Soil	Date Analyzed:	2/10/2012
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**640**	**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: **Scott #1R (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Felipe Aragon
Printed

Review

Toni McKnight, EIT
Printed

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CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 10-Feb-12

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

2/14/2012
Date

Felipe Aragon
Print Name

Review

2/14/2012
Date

Toni McKnight, EIT
Print Name

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envirotech-inc.com
info@envirotech-inc.com

envirotech
Analytical Laboratory

EPA METHOD 8015 Modified
Nonhalogenated Volatile
Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	92115-2085
Sample ID:	North & East Walls	Date Reported:	02-13-12
Laboratory Number:	61122	Date Sampled:	02-10-12
Chain of Custody No:	13391	Date Received:	02-10-12
Sample Matrix:	Soil	Date Extracted:	02-10-12
Preservative:	Cool	Date Analyzed:	02-13-12
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)	**13.4**	**0.1**
Total Petroleum Hydrocarbons	**13.4**	

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/ Scott #1R**

Analyst

Review

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laboratory@envirotech-inc.com

envirotech
Analytical Laboratory

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	02-10-12 QA/QC	Date Reported:	02-13-12
Laboratory Number:	61112	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-10-12
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	40949	9.996E+02	1.000E+03	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	40949	9.996E+02	1.000E+03	**0.04%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**5.1**	**0.2**
Diesel Range C10 - C28	**5.8**	**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**	**248**	**99.4%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**254**	**101%**	**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 61112-61117, 61121-61122 and 61126**

Analyst

Review

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	92115-2085
Sample ID:	Bottom South Sec.	Date Reported:	02-13-12
Laboratory Number:	61123	Date Sampled:	02-10-12
Chain of Custody:	13391	Date Received:	02-10-12
Sample Matrix:	Soil	Date Analyzed:	02-13-12
Preservative:	Cool	Date Extracted:	02-10-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**10.0**
Toluene	**ND**	**10.0**
Ethylbenzene	**ND**	**10.0**
p,m-Xylene	**ND**	**10.0**
o-Xylene	**ND**	**10.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**90.5 %**
	1,4-difluorobenzene	**112 %**
	Bromochlorobenzene	**101 %**

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/ Scott #1R**

Analyst

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	0213BBLK QA/QC	Date Reported:	02-13-12
Laboratory Number:	61123	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-13-12
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	1.8173E+007	1.8210E+007	0.2%	ND	1.0
Toluene	1.9011E+007	1.9049E+007	0.2%	ND	1.0
Ethylbenzene	1.6934E+007	1.6967E+007	0.2%	ND	1.0
p,m-Xylene	4.3869E+007	4.3957E+007	0.2%	ND	1.0
o-Xylene	1.5758E+007	1.5789E+007	0.2%	ND	1.0

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	10.0
Toluene	ND	ND	0.0%	0 - 30%	10.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	10.0
p,m-Xylene	ND	ND	0.0%	0 - 30%	10.0
o-Xylene	ND	ND	0.0%	0 - 30%	10.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	501	100%	39 - 150
Toluene	ND	500	507	101%	46 - 148
Ethylbenzene	ND	500	498	99.6%	32 - 160
p,m-Xylene	ND	1000	1,010	101%	46 - 148
o-Xylene	ND	500	504	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 61123

Analyst

Review

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*Rush

CHAIN OF CUSTODY RECORD

13391

Client:	Project Name / Location:
ConocoPhillips	Confirmation Sampling / Scott #1R
Email results to:	Sampler Name:
F. Aragon	F. Aragon
Client Phone No.:	Client No.:
	92115-2085

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab No.	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	CO Table 910-1	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
North & East Walls	2-10-12	12:55	61122	1-40z			X	X													X	X
Bottom South Spl.	2-10-12	12:45	61123	1-40z			X		X												X	X

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
F. Aragon	2-10-12	14:20	Ariana S. Hammer	2.10.12	14:20
Relinquished by: (Signature)			Received by: (Signature)		

Sample Matrix

Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐ _____

☐ Sample(s) dropped off after hours to secure drop off area.

Rush

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