

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

30-045-24075

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Burlington Resources, a Wholly Subsidiary of ConocoPhillips Company	Contact Kelsi Harrington	
Address 3401 E. 30th St., Farmington, NM 87402	Telephone No. 505-599-3403	
Facility Name Newberry 8A	Facility Type Gas Well API#3004524075	
Surface Owner Federal	Mineral Owner Federal	Lease No. NMSF-078120-A

LOCATION OF RELEASE

Unit Letter O	Section 09	Township 31N	Range 12W	Feet from the 1030'	North/South Line South	Feet from the 1625'	East/West Line East	County San Juan
-------------------------	----------------------	------------------------	---------------------	-------------------------------	----------------------------------	-------------------------------	-------------------------------	---------------------------

Latitude **36.90889° N** Longitude **-108.09709° W**

NATURE OF RELEASE

Type of Release – Unknown	Volume of Release – Unknown	Volume Recovered –
Source of Release: Below Grade Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery
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.* **Below Grade Tank Closure.**

Describe Area Affected and Cleanup Action Taken.* **The sample returned results below the regulatory standards for Benzene, BTEX and Chlorides but above the regulatory standard of 100 ppm for TPH (128 ppm), confirming a release. However, as the closure standard for TPH at this site is 1000 ppm, no further action is required.**

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

Signature: <i>Kelsi 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: 8/31/11 Phone: 505-599-3403		

* Attach Additional Sheets If Necessary

nJK 1129356552





February 21, 2011

Project Number 92115-1589

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

Phone: (505) 599-3403

**RE: BELOW GRADE TANK CLOSURE DOCUMENTATION FOR THE NEWBERRY #8A (hBr)
WELL SITE, SAN JUAN COUNTY, NEW MEXICO**

Dear Ms. Harrington:

Enclosed please find the field notes and analytical results for below grade tank (BGT) closure activities performed at the Newberry #8A (hBr) well site located in Section 9, Township 31 North, Range 12 West, San Juan County, New Mexico. Upon Envirotech personnel's arrival on February 15, 2011, one (1) five (5)-point composite sample was collected from beneath the former BGT. The sample was analyzed in the field for total petroleum hydrocarbons (TPH) using USEPA Method 418.1, for organic vapors using a photoionization detector (PID), and for chlorides. Additionally, the sample was 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 benzene and BTEX using USEPA Method 8021 and for total chlorides using USEPA Method 4500. The sample returned results below the regulatory standards for benzene, BTEX and chlorides but above the regulatory standard of 100 parts per million (ppm) TPH using USEPA Method 418.1, confirming a release did occur.

A brief site assessment was conducted and the regulatory standards were determined to be 5000 ppm TPH and 100 ppm organic vapors due to horizontal distance to surface water being greater than 1000 feet and depth to groundwater greater than 200 feet, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Spills, Leaks, and Releases. The sample from beneath the former BGT returned results below the regulatory standard for TPH using USEPA Method 418.1; see attached *Analytical Results*. Envirotech, Inc. recommends no further action in regards to this incident.

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

Respectfully submitted,
ENVIROTECH, INC.

A handwritten signature in black ink, appearing to read 'Greg Crabtree'.

Greg Crabtree, PE
Environmental Manager
gcrabtree@envirotech-inc.com

Enclosures: Field Notes
Analytical Results

Cc: Client File 92115

PAGE NO: <u>1</u> OF <u>1</u> DATE STARTED: <u>2/15/11</u> DATE FINISHED: _____	ENVIROTECH INC ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64 - 3014 FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615	ENVIRONMENTAL SPECIALIST: <u>G. Crabtree</u> LAT: <u>36.90898169</u> LONG: <u>-108.0977889</u>
---	---	--

FIELD REPORT: BGT / PIT CLOSURE VERIFICATION

LOCATION:	NAME: <u>Newberry</u>	WELL #: <u>8A</u>	TEMP PIT:	PERMANENT PIT:	BGT:
LEGAL ADD:	UNIT: <u>0</u>	SEC: <u>9</u>	TWP: <u>31N</u>	RNG: <u>12W</u>	PM: <u>11M</u>
TR/FOOTAGE:	<u>1625 E 1030 S</u>		CNTY: <u>San Juan</u>	ST: <u>New Mexico</u>	

EXCAVATION APPROX:	FT.	X	FT.	X	FT. DEEP	CUBIC YARDAGE:
DISPOSAL FACILITY:	REMEDIATION METHOD:					
LAND OWNER:	<u>Federal</u>		API: <u>300-45-24075</u>		BGT / PIT VOLUME:	
CONSTRUCTION MATERIAL:	DOUBLE-WALLED, WITH LEAK DETECTION:					
LOCATION APPROXIMATELY:	<u>42</u>	FT.	<u>40°</u>	FROM WELLHEAD		
DEPTH TO GROUNDWATER:	<u>200'</u>					

TEMPORARY PIT - GROUNDWATER 50-100 FEET DEEP
 BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 500 mg/kg

TEMPORARY PIT - GROUNDWATER ≥ 100 FEET DEEP
 BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 1000 mg/kg

☒ PERMANENT PIT OR BGT
 BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, TPH (418.1) ≤ 100 mg/kg, CHLORIDES ≤ 250 mg/kg

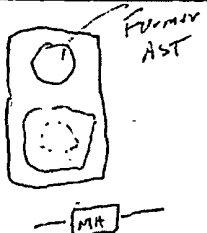
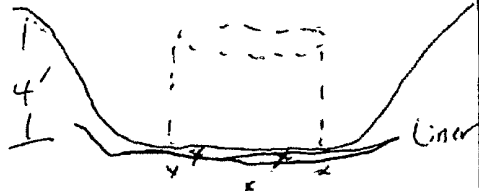
FIELD 418.1 ANALYSIS

TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (mg/kg)
	<u>200 STD</u>					<u>199</u>	<u>199</u>
<u>1422</u>	<u>5 pt. comp</u>	<u>1</u>	<u>5.0</u>	<u>20</u>	<u>4</u>	<u>32</u>	<u>128</u>
		<u>2</u>					
		<u>3</u>					
		<u>4</u>					
		<u>5</u>					
		<u>6</u>					

PERIMETER

FIELD CHLORIDES RESULTS

PROFILE

	<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <tr> <th>SAMPLE ID</th><th>READING</th><th>CALC. (mg/kg)</th></tr> <tr> <td><u>5 pt comp</u></td><td><u>0.6</u></td><td><u><28</u></td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	SAMPLE ID	READING	CALC. (mg/kg)	<u>5 pt comp</u>	<u>0.6</u>	<u><28</u>																						
SAMPLE ID	READING	CALC. (mg/kg)																											
<u>5 pt comp</u>	<u>0.6</u>	<u><28</u>																											
PID RESULTS																													
<table style="width:100%; border: none;"> <tr> <th style="width:50%;">SAMPLE ID</th><th style="width:50%;">RESULTS (mg/kg)</th></tr> <tr> <td><u>5 pt Comp</u></td><td><u>0.0</u></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> </table>			SAMPLE ID	RESULTS (mg/kg)	<u>5 pt Comp</u>	<u>0.0</u>																							
SAMPLE ID	RESULTS (mg/kg)																												
<u>5 pt Comp</u>	<u>0.0</u>																												

LAB SAMPLES			NOTES: <u>Samples collected from beneath liner</u> WORKORDER # _____ WHO ORDERED _____
SAMPLE ID	ANALYSIS	RESULTS	
	BENZENE		
	BTEX		
	GRO & DRO		
	CHLORIDES		



**EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client:	ConocoPhillips	Project #:	92115-1589
Sample No.:	1	Date Reported:	2/17/2011
Sample ID:	5 Point Composite	Date Sampled:	2/15/2011
Sample Matrix:	Soil	Date Analyzed:	2/15/2011
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

Total Petroleum Hydrocarbons	128	5.0
-------------------------------------	------------	------------

ND = Parameter not detected at the stated detection limit.

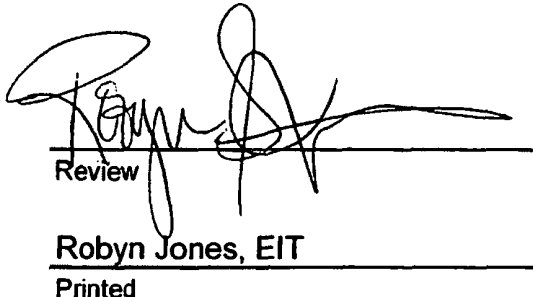
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Newberry #8A (hBr)**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Greg Crabtree, PE
Printed


Review
Robyn Jones, EIT
Printed



CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 15-Feb-11

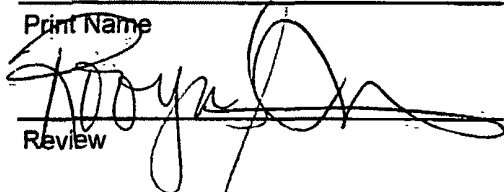
Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	199
	200	
	500	
	1000	

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


Analyst

2/17/2011
Date

Greg Crabtree, PE
Print Name


Review

2/17/2011
Date

Robyn Jones, EIT
Print Name



Field Chloride

Client:	ConocoPhillips	Project #:	92115-1589
Sample No.:	1	Date Reported:	2/17/2011
Sample ID:	5 Point Composite	Date Sampled:	2/15/2011
Sample Matrix:	Soil	Date Analyzed:	2/15/2011
Preservative:	Cool	Analysis Needed:	Chloride
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

Field Chloride

ND

28.0

ND = Parameter not detected at the stated detection limit.

References: "Standard Methods for the Examination of Water and Wastewater", 18th ed., 1992
Hach Company Quantab Titrators for Chloride

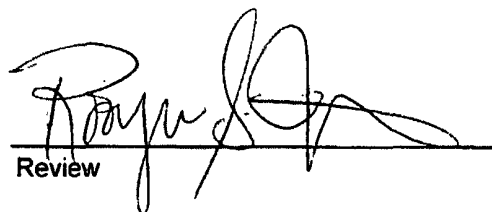
Comments: **Newberry #8A (hBr)**



Analyst

Greg Crabtree, PE

Printed



Review

Robyn Jones, EIT

Printed

Client:	ConocoPhillips (hBr)	Project #:	92115-1589
Sample ID:	5 Pt Comp	Date Reported:	02-16-11
Laboratory Number:	57214	Date Sampled:	02-15-11
Chain of Custody:	11142	Date Received:	02-15-11
Sample Matrix:	Soil	Date Analyzed:	02-16-11
Preservative:	Cool	Date Extracted:	02-15-11
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

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


ND - Parameter not detected at the stated detection limit.

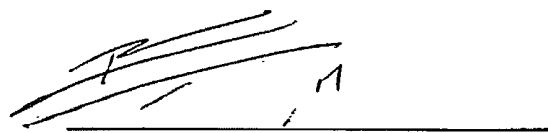
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	91.8 %
	1,4-difluorobenzene	86.2 %
	Bromochlorobenzene	92.5 %

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: Newberry 8A


 Analyst


 Review

Client:	N/A	Project #:	N/A
Sample ID:	0216BBLK QA/QC	Date Reported:	02-16-11
Laboratory Number:	57214	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-16-11
Condition:	N/A	Analysis:	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
--	----------	----------	-------	---------------	-----------------

Benzene	1.7550E+005	1.7585E+005	0.2%	ND	0.1
Toluene	1.8914E+005	1.8952E+005	0.2%	ND	0.1
Ethylbenzene	1.6267E+005	1.6299E+005	0.2%	ND	0.1
p,m-Xylene	3.7521E+005	3.7598E+005	0.2%	ND	0.1
o-Xylene	1.5363E+005	1.5394E+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	519	104%	39 - 150
Toluene	ND	500	527	105%	46 - 148
Ethylbenzene	ND	500	525	105%	32 - 160
p,m-Xylene	ND	1000	1,040	104%	46 - 148
o-Xylene	ND	500	539	108%	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 57211, 57214-57215


 Analyst


 Review

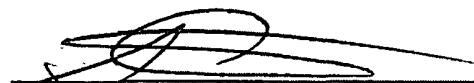
Client:	ConocoPhillips (hBr)	Project #:	92115-1589
Sample ID:	5 Pt Comp	Date Reported:	02/16/11
Lab ID#:	57214	Date Sampled:	02/15/11
Sample Matrix:	Soil	Date Received:	02/15/11
Preservative:	Cool	Date Analyzed:	02/16/11
Condition:	Intact	Chain of Custody:	11142


Parameter	Concentration (mg/Kg)
-----------	-----------------------

Total Chloride**5**

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Newberry 8A**



Analyst

Review

CHAIN OF CUSTODY RECORD

11142

Client: Conoco (hBr)			Project Name / Location: Newberry 8A			ANALYSIS / PARAMETERS													
Client Address:			Sampler Name: G. Crabtree			<div style="display: flex; justify-content: space-between;"> <div> <div>TPH (Method 8015) *</div> <div>BTEX (Method 8021) *</div> <div>VOC (Method 8260)</div> <div>RCRA 8 Metals</div> <div>Cation / Anion</div> <div>RCI</div> <div>TCLP with H/P</div> <div>PAH</div> <div>TPH (418.1)</div> <div>CHLORIDE</div> </div> <div> <div>Sample Cool</div> <div>Sample Intact</div> </div> </div>													
Client Phone No.:			Client No.: 92115-1589																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl 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
Set Comp	2/15/11	1427	57214	Soil Solid	1-402				✓								✓	✓	✓
				Soil Solid	Sludge Aqueous														
				Soil Solid	Sludge Aqueous														
				Soil Solid	Sludge Aqueous														
				Soil Solid	Sludge Aqueous														
				Soil Solid	Sludge Aqueous														
				Soil Solid	Sludge Aqueous														
				Soil Solid	Sludge Aqueous														
				Soil Solid	Sludge Aqueous														
				Soil Solid	Sludge Aqueous														
				Soil Solid	Sludge Aqueous														
				Soil Solid	Sludge Aqueous														
Relinquished by: (Signature) <i>[Signature]</i>			Date 2/15/11	Time 1555	Received by: (Signature) <i>Randi Vazquez</i>			Date 2/15/11			Time 13:55								
Relinquished by: (Signature)					Received by: (Signature)														
Relinquished by: (Signature)					Received by: (Signature)														

Rush



envirotech
Analytical Laboratory

5796 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • lab@envirotech-inc.com