

District I *
1645 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

RECEIVED

MAR 05 2015

NMOCD

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 Shelly Cook-Cowden	
Address 3401 E. 30th St., Farmington, NM 87402	Telephone No. 505-324-5140	
Facility Name Rowley #3	Facility Type Gas Well API# 3004506647	
Surface Owner Federal	Mineral Owner Federal	Lease No. SF - 077875

LOCATION OF RELEASE

Unit Letter I	Section 07	Township 027N	Range 10W	Feet from the 1650'	North/South Line South	Feet from the 800'	East/West Line East	County San Juan
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Latitude **36.58702 ° N** Longitude - **107.9299 ° W**

NATURE OF RELEASE

Type of Release - Produced Water	Volume of Release - Unknown	Volume Recovered
Source of Release - Below Grade Tank	Date and Hour of Occurrence - Unknown	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.* Below Grade Tank Activities		
Describe Area Affected and Cleanup Action Taken.* The below grade tank sample results were below regulatory limits for all constituents analyzed except for chlorides. The ground water for this location is >100' based off of a cathodic well report in the area. Therefore, there is no risk to groundwater. 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>Shelly Cook-Cowden</i>	OIL CONSERVATION DIVISION	
Printed Name: Shelly Cook-Cowden	Approved by District Supervisor: <i>[Signature]</i>	
Title: Field Environmental Specialist	Approval Date: 4/13/15	Expiration Date:
E-mail Address: Shelly.g.Cook-Cowden@ConocoPhillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: October 6, 2011	Phone: 505-324-5140	

* Attach Additional Sheets If Necessary

HNCS 1510355 450

9



August 11, 2011

Project Number 92115-1781

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

Phone: (505) 324-5140

RE: BELOW-GRADE TANK CLOSURE DOCUMENTATION FOR THE ROWLEY #3 (HBR) WELL SITE, SAN JUAN COUNTY, NEW MEXICO

Dear Ms. Cook-Cowden,

Enclosed please find the field notes and analytical results for below-grade tank (BGT) closure activities conducted at the Rowley #3 well site located in Section 7, Township 27 North, Range 10 West, San Juan County, New Mexico. Upon Envirotech personnel's arrival on June 16, 2011, one (1) five (5)-point composite sample was collected from directly beneath the BGT; see attached *Field Notes*. 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 limits for all constituents analyzed, except chlorides confirming a release did occur; see attached *Analytical Results*. Envirotech, Inc. recommends to follow the direction of the New Mexico Oil Conservation Division (NMOCD) for any remediation activities.

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.

John Rollins
Environmental Field Technician
jrollins@envirotech-inc.com

Enclosures: Field Notes
Analytical Results

Cc: Client File 92115

PAGE NO: <u>1</u> OF <u>1</u> DATE STARTED: <u>6/16/11</u> DATE FINISHED: <u>6/16/11</u>	ENVIROTECH INC ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64 - 3014 FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615	ENVIRONMENTAL SPECIALIST: <u>SR</u> LAT: <u>36.58707</u> LONG: <u>107.931</u>
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FIELD REPORT: BGT / PIT CLOSURE VERIFICATION

LOCATION: NAME: <u>Rowley</u>	WELL #: <u>3</u>	TEMP PIT: <u>NA</u>	PERMANENT PIT: <u>NA</u>	BGT: <u>X</u>
LEGAL ADD: UNIT: <u> </u> SEC: <u>7</u> TWP: <u>27N</u> RNG: <u>10W</u> PM: <u>NM</u>				
QTR/FOOTAGE: <u>1650 FSL, 800 FEL</u> CNTY: <u>SS</u> ST: <u>NM</u>				

EXCAVATION APPROX: <u>NA</u> FT. X <u>NA</u> FT. X <u>NA</u> FT. DEEP	CUBIC YARDAGE: <u> </u>
DISPOSAL FACILITY: <u>NA</u>	REMEDICATION METHOD: <u>NA</u>
LAND OWNER: <u> </u>	API: <u>3004506647</u> BGT / PIT VOLUME: <u> </u>
CONSTRUCTION MATERIAL: <u>Steel</u>	DOUBLE-WALLED, WITH LEAK DETECTION: <u> </u>

LOCATION APPROXIMATELY: <u>241° 38.9 FT. 241°</u>	FROM WELLHEAD
DEPTH TO GROUNDWATER: <u>>100</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
<input checked="" type="checkbox"/> 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)
9:30	STD		-	-	-	203	
9:38	<u>1</u>	<u>1</u>				<u>12</u>	<u>48</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;"> <tr> <th>SAMPLE ID</th> <th>READING</th> <th>CALC. (mg/kg)</th> </tr> <tr> <td><u>1</u></td> <td><u>NO</u></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> <tr><td> </td><td></td><td></td></tr> </table>	SAMPLE ID	READING	CALC. (mg/kg)	<u>1</u>	<u>NO</u>																							<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">PID RESULTS</th> </tr> <tr> <th>SAMPLE ID</th> <th>RESULTS (mg/kg)</th> </tr> <tr> <td><u>1</u></td> <td><u>NO</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> <tr><td> </td><td></td></tr> </table> <div style="text-align: center; margin-top: 20px;"> <p>X = Sample point</p> </div>	PID RESULTS		SAMPLE ID	RESULTS (mg/kg)	<u>1</u>	<u>NO</u>												
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LAB SAMPLES <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>RESULTS</th> </tr> <tr><td> </td><td>BENZENE</td><td></td></tr> <tr><td> </td><td>BTEX</td><td></td></tr> <tr><td> </td><td>GRO & DRO</td><td></td></tr> <tr><td> </td><td>CHLORIDES</td><td></td></tr> <tr><td> </td><td></td><td></td></tr> <tr><td> </td><td></td><td></td></tr> </table>	SAMPLE ID	ANALYSIS	RESULTS		BENZENE			BTEX			GRO & DRO			CHLORIDES								NOTES: <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
SAMPLE ID	ANALYSIS	RESULTS																				
	BENZENE																					
	BTEX																					
	GRO & DRO																					
	CHLORIDES																					
WORKORDER #	WHO ORDERED																					



EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client: ConocoPhillips
Sample No.: 1
Sample ID: 5 pt. Composite
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 92115-1781
Date Reported: 6/21/2011
Date Sampled: 6/16/2011
Date Analyzed: 6/16/2011
Analysis Needed: TPH-418.1

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: Rowley #3 (hBr)


Instrument calibrated to 200 ppm standard. Zeroed before each sample



Analyst

John Rollins

Printed



Review
Robyn Heidbrier, EIT

Printed



CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 16-Jun-11

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	203
	200	
	500	
	1000	

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



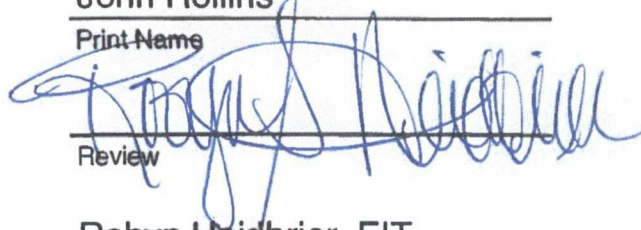
Analyst

6/21/2011

Date

John Rollins

Print Name



Review

6/21/2011

Date

Robyn Heidbrier, EIT

Print Name

**EPA METHOD 8021
 AROMATIC VOLATILE ORGANICS**

Client:	ConocoPhillips	Project #:	92115-1781
Sample ID:	1	Date Reported:	06-17-11
Laboratory Number:	58529	Date Sampled:	06-16-11
Chain of Custody:	11944	Date Received:	06-16-11
Sample Matrix:	Soil	Date Analyzed:	06-16-11
Preservative:	Cool	Date Extracted:	06-16-11
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	1.2	1.2
o-Xylene	1.4	0.9
Total BTEX	2.6	

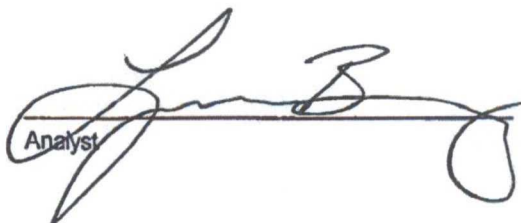
ND - Parameter not detected at the stated detection limit.

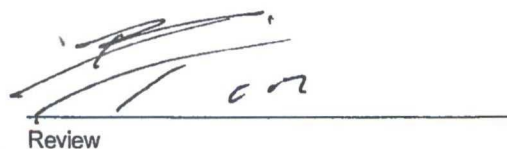
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96.9 %
	1,4-difluorobenzene	107 %
	Bromochlorobenzene	88.3 %

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: Rowley #3


 Analyst


 Review

**EPA METHOD 8021
 AROMATIC VOLATILE ORGANICS**

Client:	N/A	Project #:	N/A
Sample ID:	0616BBLK QA/QC	Date Reported:	06-17-11
Laboratory Number:	58522	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-16-11
Condition:	N/A	Analysis:	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff.	Blank Conc	Detect. Limit
		Accept. Range 0 - 15%			
Benzene	3.5272E+006	3.5342E+006	0.2%	ND	0.1
Toluene	3.5677E+006	3.5748E+006	0.2%	ND	0.1
Ethylbenzene	3.1002E+006	3.1064E+006	0.2%	ND	0.1
p,m-Xylene	8.2455E+006	8.2621E+006	0.2%	ND	0.1
o-Xylene	2.8474E+006	2.8531E+006	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	7.5	6.8	9.3%	0 - 30%	0.9
Toluene	53.9	51.9	3.7%	0 - 30%	1.0
Ethylbenzene	19.3	20.3	5.2%	0 - 30%	1.0
p,m-Xylene	92.8	116	25.3%	0 - 30%	1.2
o-Xylene	29.6	31.0	4.7%	0 - 30%	0.9

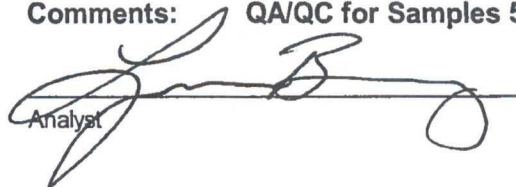
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	7.5	500	444	87.5%	39 - 150
Toluene	53.9	500	503	90.8%	46 - 148
Ethylbenzene	19.3	500	498	95.9%	32 - 160
p,m-Xylene	92.8	1000	995	91.0%	46 - 148
o-Xylene	29.6	500	506	95.6%	46 - 148

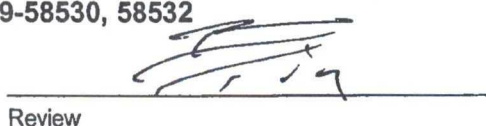
ND - Parameter not detected at the stated detection limit.

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 58522-58523, 58529-58530, 58532


 Analyst


 Review

Chloride

Client:	ConocoPhillips	Project #:	92115-1781
Sample ID:	1	Date Reported:	06/17/11
Lab ID#:	58529	Date Sampled:	06/16/11
Sample Matrix:	Soil	Date Received:	06/16/11
Preservative:	Cool	Date Analyzed:	06/17/11
Condition:	Intact	Chain of Custody:	11944

Parameter**Concentration (mg/Kg)****Total Chloride****650**

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: **Rowley #3**


Analyst
Review

RUSH

CHAIN OF CUSTODY RECORD

11944

Client: <i>Conoco</i>			Project Name / Location: <i>Rowley #3</i>			ANALYSIS / PARAMETERS														
Client Address:			Sampler Name: <i>John R</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>92115-1781</i>																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl ₂ HCl Fe ₂														
<i>1</i>	<i>6/16/11</i>	<i>9:40</i>	<i>58529</i>	<i>Soil Solid</i>	<i>402</i>			<i>✓</i>		<i>✓</i>						<i>✓</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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Relinquished by: (Signature) <i>[Signature]</i>				Date <i>6/16/11</i>	Time <i>11:00</i>	Received by: (Signature) <i>[Signature]</i>				Date <i>6/16/11</i>	Time <i>11:00</i>									
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