

**Site Description**

Site Name:	CD Woolworth Tank Battery
Company:	Oxy Permian Ltd.
Legal Description:	SW ¼, Section 30, T24S, R37E
County:	Lea County, NM
GPS Coordinates:	N 32.18641° W 103.20506°

**Release Data**

Date of Release:	05/04/2014
Type of Release:	Oil
Source of Release:	Leak in 2" circulating line on the discharge side
Volume of Release:	40 bbls
Volume Recovered:	1 bbl

**Remediation Specifications**

Remediation Parameters:	Excavate the areas around SP1 and SP2 to a depth of 1.5 ft. Excavate the area around SP3 to a depth of 2 feet. Backfill the site with clean soil.
Remediation Activities:	05/11/2015 to 05/18/2015

Plan Sent to OCD:	10/22/2014	Email from Cliff Brunson to Tomas Oberding
OCD Approval of Plan:	10/22/2014	Email from Tomas Oberding to Cliff Brunson
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

**Supporting Documentation**

Initial C-141	Signed 05/19/2014
Final C-141	Signed 07/13/2015
Site Diagram	May 2014
Groundwater Plot	100'
TOPO Maps	May 2014
Lab Summary	09/05/2014
Lab Analysis	09/05/2014
Correspondence	Request and approval of remediation plan via email

**Request for Closure**

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

07/22/2015

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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 in accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	CD Woolworth Tank Battery	Facility Type	Gathering
Surface Owner	RRR Land & Cattle Co.	Mineral Owner	
		API No.	30-025-32862(nearest well)

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
SW ¼	30	24S	37E					Lea County, NM

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

Type of Release	Oil	Volume of Release	40 bbls	Volume Recovered	1 bbl
Source of Release	Leak in 2" circulating line on the discharge side between the pump and the heater treater within the fire wall	Date and Hour of Occurrence	05/04/2014	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking, NMOCD		
By Whom?	Kathy Purvis, BBC International	Date and Hour	05/05/2014 @ 9:56 am		
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.\*

A leak in a 2" circulating line caused 40 bbls of oil to spill onto the ground. A vacuum truck recovered 1 bbl and the line was repaired or replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 100' x 20' on location within the fire wall. Remediation will be completed in accordance with a remediation plan approved by NMOCD.

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Chancey Summers	Approved by Environmental Specialist:	
Title: HES Specialist	Approval Date:	Expiration Date:
E-mail Address: Chancey.Summers@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 5-19-14 Phone: (575) 397-8216		

\* Attach Additional Sheets If Necessary

District I  
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State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
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Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(432) 685-5824
Facility Name	CD Woolworth Tank Battery	Facility Type	Gathering
Surface Owner	RRR Land & Cattle Co.	Mineral Owner	
		API No.	30-025-32862

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
SW ¼	30	24S	37E					Lea County, NM

Latitude N 32.18641° Longitude W 103.20506°

**NATURE OF RELEASE**

Type of Release	Oil	Volume of Release	40 bbls	Volume Recovered	1 bbl
Source of Release	Leak in 2" circulating line on the discharge side between the pump and the heater treater within the fire wall	Date and Hour of Occurrence	05/04/2014	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking, NMOCD		
By Whom?	Kathy Purvis, BBC International	Date and Hour	05/05/2014 @ 9:56 am		
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The affected area is approximately 100' x 20' on location within the fire wall. Remediation was completed in accordance with the remediation plan approved by Tomas Oberding of NMOCD via email on 10/22/2014.

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.

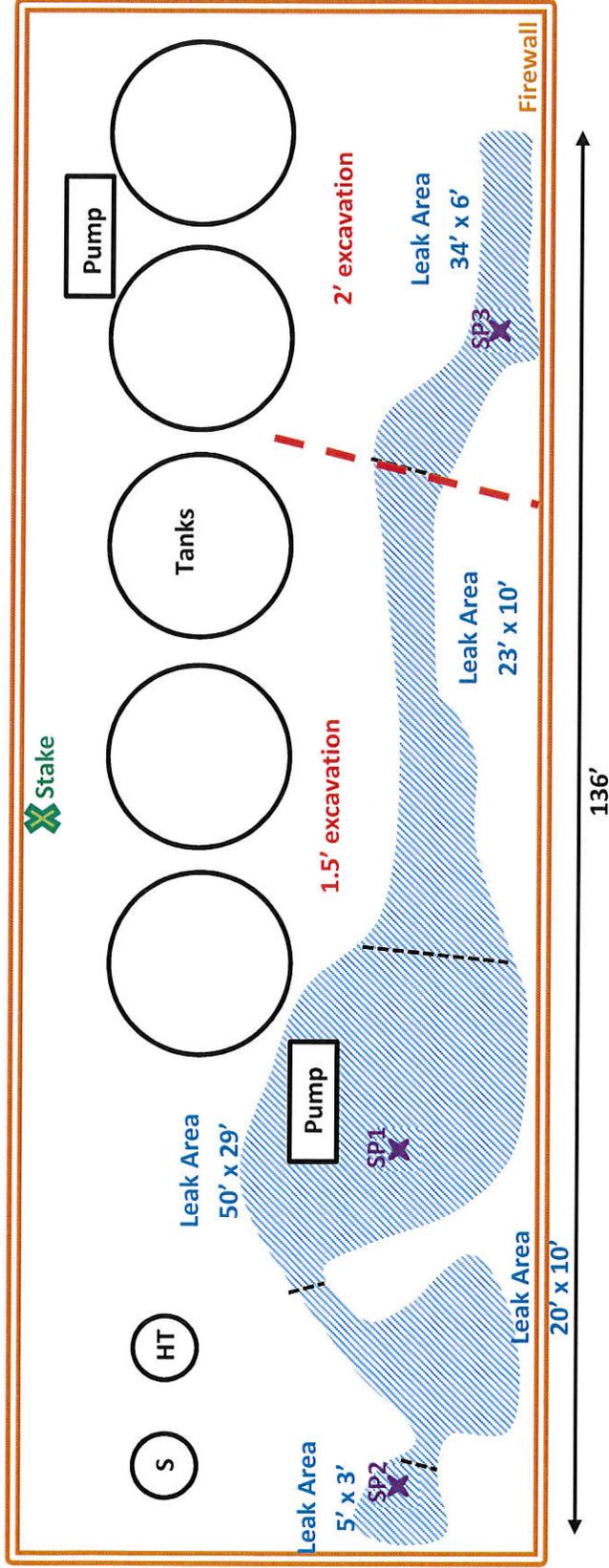
Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Chancey Summers	Approved by Environmental Specialist:	
Title: HES Lead	Approval Date:	Expiration Date:
E-mail Address: Chancey_Summers@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7-13-15 Phone: (432) 685-5824		

\* Attach Additional Sheets If Necessary



Oxy  
CD Woolworth Tank Battery

Road



SW ¼, Section 30. T24S, R37E  
Lea County, NM  
N 32.18641° W 103.20506°  
API# 30-025-32862 (nearest well)

<b>BBC International, Inc.</b>	
<b>Oxy</b>	
<b>CD Woolworth Tank Battery</b>	
Date: 05/20/2014	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2014

# Groundwater Plot

## Oxy CD Woolworth Tank Battery

County  
Lea

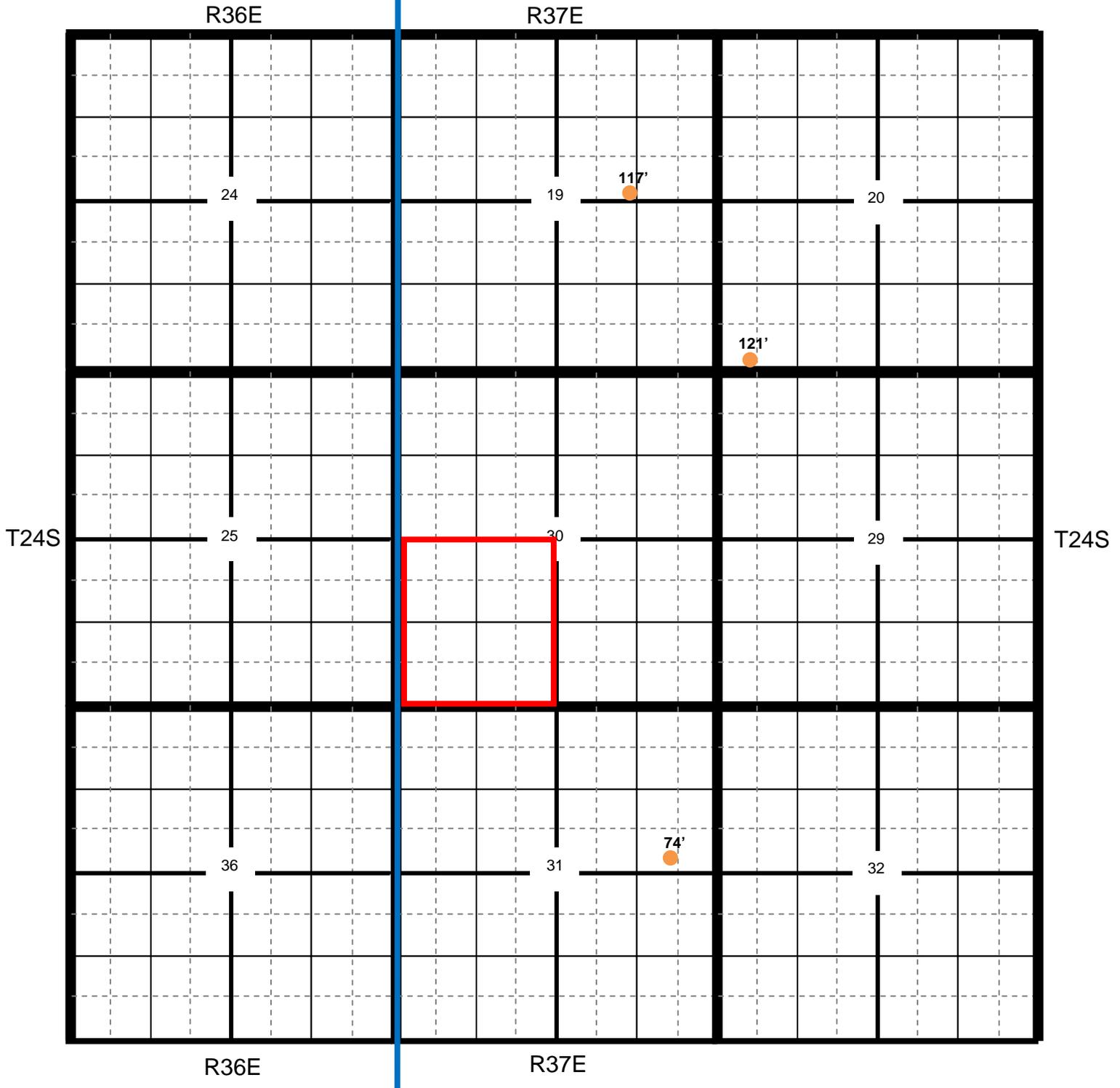
Unit Letter  
SW ¼

Section  
30

Township  
24S

Range  
37E

Trend Map 100'



Location

OCD

USGS

SEO

All Databases

## Oxy CD Woolworth Tank Battery

County: Lea      Unit Letter: SW ¼      Section: 30      Township: 24S      Range: 37E

Trend Map 100'

1

2

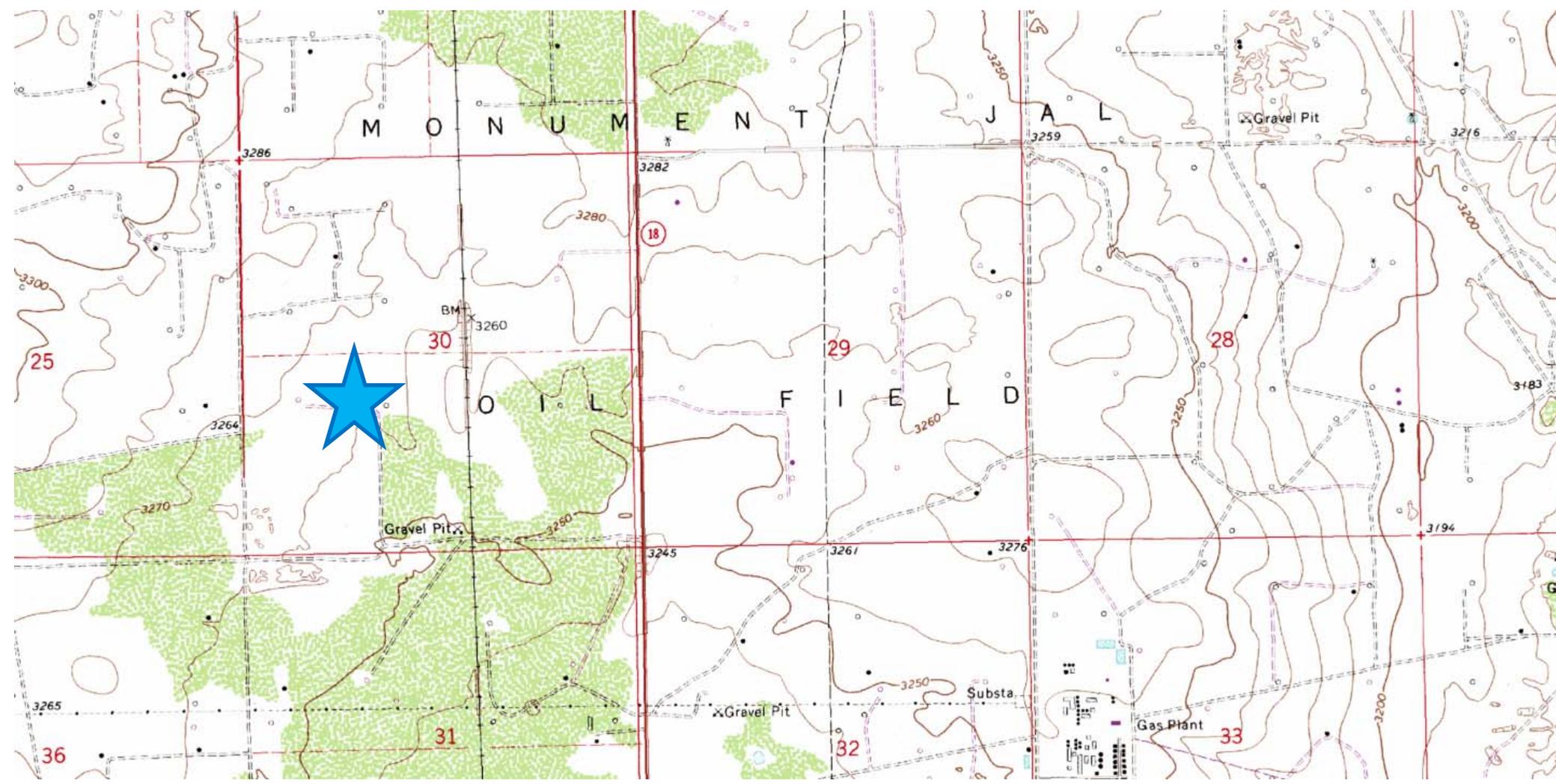
NW/NW <b>None found</b>	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4



# Oxy CD Woolworth Tank Battery



**Laboratory Analytical Results Summary  
CD Woolworth Tank Battery**

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 7'
Analyte	Method	Date	9/5/14	9/5/14	9/5/14	9/5/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.100	<0.100	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.100	<b>0.318</b>	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.100	<b>0.119</b>	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.300	<b>1.23</b>	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.600	<b>1.67</b>	<0.300	<0.300
<b>GRO</b>	TPH 8015M		<100	<b>149</b>	<50.0	<10.0
<b>DRO</b>	TPH 8015M		<b>4040</b>	<b>1460</b>	<b>1090</b>	<b>16.5</b>

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	9/5/14	9/5/14	9/5/14
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.100	<0.200	<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.11</b>	<b>1.03</b>	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>0.115</b>	<b>0.211</b>	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>0.927</b>	<b>4.7</b>	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>1.15</b>	<b>5.94</b>	<0.300
<b>GRO</b>	TPH 8015M		<b>192</b>	<b>319</b>	<10.0
<b>DRO</b>	TPH 8015M		<b>5860</b>	<b>2990</b>	<b>24.9</b>

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 6'
Analyte	Method	Date	9/5/14	9/5/14	9/5/14	9/5/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.500	<1.00	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.500	<b>2.74</b>	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.500	<b>2.7</b>	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<1.50	<b>11</b>	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<3.00	<b>16.5</b>	<0.300	<0.300
<b>GRO</b>	TPH 8015M		<b>479</b>	<b>1170</b>	<50.0	<10.0
<b>DRO</b>	TPH 8015M		<b>8400</b>	<b>3170</b>	<b>670</b>	<10.0



September 22, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: C D WOOLWORTH

Enclosed are the results of analyses for samples received by the laboratory on 09/16/14 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/16/2014	Sampling Date:	09/05/2014
Reported:	09/22/2014	Sampling Type:	Soil
Project Name:	C D WOOLWORTH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 1 (H402877-01)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	09/18/2014	ND	1.84	92.0	2.00	4.62		
Toluene*	<0.100	0.100	09/18/2014	ND	1.74	86.8	2.00	3.78		
Ethylbenzene*	<0.100	0.100	09/18/2014	ND	1.63	81.5	2.00	5.29		
Total Xylenes*	<0.300	0.300	09/18/2014	ND	4.81	80.2	6.00	5.63		
Total BTEX	<0.600	0.600	09/18/2014	ND						

*Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126*

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	09/18/2014	ND	228	114	200	1.00		
<b>DRO &gt;C10-C28</b>	<b>4040</b>	100	09/18/2014	ND	196	97.9	200	0.277		

*Surrogate: 1-Chlorooctane 88.9 % 65.2-140*
*Surrogate: 1-Chlorooctadecane 132 % 63.6-154*

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/16/2014	Sampling Date:	09/05/2014
Reported:	09/22/2014	Sampling Type:	Soil
Project Name:	C D WOOLWORTH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 3 (H402877-02)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	09/18/2014	ND	1.84	92.0	2.00	4.62	
<b>Toluene*</b>	<b>0.318</b>	0.100	09/18/2014	ND	1.74	86.8	2.00	3.78	
<b>Ethylbenzene*</b>	<b>0.119</b>	0.100	09/18/2014	ND	1.63	81.5	2.00	5.29	
<b>Total Xylenes*</b>	<b>1.23</b>	0.300	09/18/2014	ND	4.81	80.2	6.00	5.63	
<b>Total BTEX</b>	<b>1.67</b>	0.600	09/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>149</b>	50.0	09/18/2014	ND	228	114	200	1.00	
<b>DRO &gt;C10-C28</b>	<b>1460</b>	50.0	09/18/2014	ND	196	97.9	200	0.277	

Surrogate: 1-Chlorooctane 93.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 Cliff Brunson  
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 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/16/2014	Sampling Date:	09/05/2014
Reported:	09/22/2014	Sampling Type:	Soil
Project Name:	C D WOOLWORTH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 5 (H402877-03)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/18/2014	ND	1.84	92.0	2.00	4.62		
Toluene*	<0.050	0.050	09/18/2014	ND	1.74	86.8	2.00	3.78		
Ethylbenzene*	<0.050	0.050	09/18/2014	ND	1.63	81.5	2.00	5.29		
Total Xylenes*	<0.150	0.150	09/18/2014	ND	4.81	80.2	6.00	5.63		
Total BTEX	<0.300	0.300	09/18/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	09/18/2014	ND	228	114	200	1.00		
<b>DRO &gt;C10-C28</b>	<b>1090</b>	50.0	09/18/2014	ND	196	97.9	200	0.277		

Surrogate: 1-Chlorooctane 95.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/16/2014	Sampling Date:	09/05/2014
Reported:	09/22/2014	Sampling Type:	Soil
Project Name:	C D WOOLWORTH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 7 (H402877-04)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/18/2014	ND	1.84	92.0	2.00	4.62		
Toluene*	<0.050	0.050	09/18/2014	ND	1.74	86.8	2.00	3.78		
Ethylbenzene*	<0.050	0.050	09/18/2014	ND	1.63	81.5	2.00	5.29		
Total Xylenes*	<0.150	0.150	09/18/2014	ND	4.81	80.2	6.00	5.63		
Total BTEX	<0.300	0.300	09/18/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/18/2014	ND	228	114	200	1.00		
<b>DRO &gt;C10-C28</b>	<b>16.5</b>	10.0	09/18/2014	ND	196	97.9	200	0.277		

Surrogate: 1-Chlorooctane 86.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 81.4 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/16/2014	Sampling Date:	09/05/2014
Reported:	09/22/2014	Sampling Type:	Soil
Project Name:	C D WOOLWORTH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 1 (H402877-05)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	09/18/2014	ND	1.84	92.0	2.00	4.62	
<b>Toluene*</b>	<b>0.110</b>	0.100	09/18/2014	ND	1.74	86.8	2.00	3.78	
<b>Ethylbenzene*</b>	<b>0.115</b>	0.100	09/18/2014	ND	1.63	81.5	2.00	5.29	
<b>Total Xylenes*</b>	<b>0.927</b>	0.300	09/18/2014	ND	4.81	80.2	6.00	5.63	
<b>Total BTEX</b>	<b>1.15</b>	0.600	09/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>192</b>	100	09/18/2014	ND	228	114	200	1.00		
<b>DRO &gt;C10-C28</b>	<b>5860</b>	100	09/18/2014	ND	196	97.9	200	0.277		

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 166 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/16/2014	Sampling Date:	09/05/2014
Reported:	09/22/2014	Sampling Type:	Soil
Project Name:	C D WOOLWORTH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 2 (H402877-06)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/18/2014	ND	1.84	92.0	2.00	4.62	
<b>Toluene*</b>	<b>1.03</b>	0.200	09/18/2014	ND	1.74	86.8	2.00	3.78	
<b>Ethylbenzene*</b>	<b>0.211</b>	0.200	09/18/2014	ND	1.63	81.5	2.00	5.29	
<b>Total Xylenes*</b>	<b>4.70</b>	0.600	09/18/2014	ND	4.81	80.2	6.00	5.63	
<b>Total BTEX</b>	<b>5.94</b>	1.20	09/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>319</b>	100	09/18/2014	ND	228	114	200	1.00	
<b>DRO &gt;C10-C28</b>	<b>2990</b>	100	09/18/2014	ND	196	97.9	200	0.277	

Surrogate: 1-Chlorooctane 107 % 65.2-140

Surrogate: 1-Chlorooctadecane 126 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/16/2014	Sampling Date:	09/05/2014
Reported:	09/22/2014	Sampling Type:	Soil
Project Name:	C D WOOLWORTH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 3 (H402877-07)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/18/2014	ND	1.84	92.0	2.00	4.62		
Toluene*	<0.050	0.050	09/18/2014	ND	1.74	86.8	2.00	3.78		
Ethylbenzene*	<0.050	0.050	09/18/2014	ND	1.63	81.5	2.00	5.29		
Total Xylenes*	<0.150	0.150	09/18/2014	ND	4.81	80.2	6.00	5.63		
Total BTEX	<0.300	0.300	09/18/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/18/2014	ND	228	114	200	1.00		
<b>DRO &gt;C10-C28</b>	<b>24.9</b>	10.0	09/18/2014	ND	196	97.9	200	0.277		

Surrogate: 1-Chlorooctane 93.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.9 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/16/2014	Sampling Date:	09/05/2014
Reported:	09/22/2014	Sampling Type:	Soil
Project Name:	C D WOOLWORTH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 3 @ 1 (H402877-08)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/18/2014	ND	1.84	92.0	2.00	4.62	
Toluene*	<0.500	0.500	09/18/2014	ND	1.74	86.8	2.00	3.78	
Ethylbenzene*	<0.500	0.500	09/18/2014	ND	1.63	81.5	2.00	5.29	
Total Xylenes*	<1.50	1.50	09/18/2014	ND	4.81	80.2	6.00	5.63	
Total BTEX	<3.00	3.00	09/18/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>479</b>	200	09/18/2014	ND	228	114	200	1.00		
<b>DRO &gt;C10-C28</b>	<b>8400</b>	200	09/18/2014	ND	196	97.9	200	0.277		

Surrogate: 1-Chlorooctane 156 % 65.2-140

Surrogate: 1-Chlorooctadecane 198 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/16/2014	Sampling Date:	09/05/2014
Reported:	09/22/2014	Sampling Type:	Soil
Project Name:	C D WOOLWORTH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 3 @ 3 (H402877-09)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	09/19/2014	ND	1.85	92.7	2.00	0.723	
<b>Toluene*</b>	<b>2.74</b>	1.00	09/19/2014	ND	1.74	87.2	2.00	0.170	
<b>Ethylbenzene*</b>	<b>2.70</b>	1.00	09/19/2014	ND	1.65	82.6	2.00	0.0482	
<b>Total Xylenes*</b>	<b>11.0</b>	3.00	09/19/2014	ND	4.91	81.9	6.00	0.0951	
<b>Total BTEX</b>	<b>16.5</b>	6.00	09/19/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>1170</b>	200	09/18/2014	ND	228	114	200	1.00		
<b>DRO &gt;C10-C28</b>	<b>3170</b>	200	09/18/2014	ND	196	97.9	200	0.277		

Surrogate: 1-Chlorooctane 145 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/16/2014	Sampling Date:	09/05/2014
Reported:	09/22/2014	Sampling Type:	Soil
Project Name:	C D WOOLWORTH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 3 @ 5 (H402877-10)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/19/2014	ND	1.85	92.7	2.00	0.723	
Toluene*	<0.050	0.050	09/19/2014	ND	1.74	87.2	2.00	0.170	
Ethylbenzene*	<0.050	0.050	09/19/2014	ND	1.65	82.6	2.00	0.0482	
Total Xylenes*	<0.150	0.150	09/19/2014	ND	4.91	81.9	6.00	0.0951	
Total BTEX	<0.300	0.300	09/19/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/18/2014	ND	228	114	200	1.00	
<b>DRO &gt;C10-C28</b>	<b>670</b>	50.0	09/18/2014	ND	196	97.9	200	0.277	

Surrogate: 1-Chlorooctane 97.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (575) 397-0397

Received:	09/16/2014	Sampling Date:	09/05/2014
Reported:	09/22/2014	Sampling Type:	Soil
Project Name:	C D WOOLWORTH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 3 @ 6' (H402877-11)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2014	ND	1.85	92.7	2.00	0.723		
Toluene*	<0.050	0.050	09/19/2014	ND	1.74	87.2	2.00	0.170		
Ethylbenzene*	<0.050	0.050	09/19/2014	ND	1.65	82.6	2.00	0.0482		
Total Xylenes*	<0.150	0.150	09/19/2014	ND	4.91	81.9	6.00	0.0951		
Total BTEX	<0.300	0.300	09/19/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/18/2014	ND	228	114	200	1.00		
DRO >C10-C28	<10.0	10.0	09/18/2014	ND	196	97.9	200	0.277		

Surrogate: 1-Chlorooctane 88.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 83.3 % 63.6-154

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report



---

Celey D. Keene, Lab Director/Quality Manager



**ARDINAL LABORATORIES**  
 101 East Marland, Hobbs, NM 88240  
 (505) 393-2326 FAX (505) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: BBC International, Inc.		P.O. #:							
Project Manager: Cliff Brunson		Company:							
Address: P.O. Box 805		Attn:							
City: Hobbs		State: NM	Zip: 88241						
Phone #: 575-397-6388		Fax #: 575-397-0397							
Project #:		Project Owner:	AY						
Project Name: CD Wood with		City:							
Project Location:		State:	Zip:						
Sampler Name: Cliff Brunson		Phone #:							
FOR LAB USE ONLY		Fax #:							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	REMARKS
H402877	1	G	1	GROUNDWATER			9/5/14	8:50	HTL BTEX
	2	G	1	WASTEWATER			9/5/14	9:00	
	3	G	1	SOIL			9/5/14	9:30	
	4	G	1	OIL			9/5/14	10:00	
	5	G	1	SLUDGE			9/5/14	10:30	
	6	G	1	OTHER :			9/5/14	10:40	
	7	G	1	ACID/BASE:			9/5/14	10:50	
	8	G	1	ICE / COOL			9/5/14	11:40	
	9	G	1	OTHER :			9/5/14	12:10	
	10	G	1				9/5/14	1:00	

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Relinquished By: *[Signature]* Date: *9/5/14* Time: *4:10*

Received By: *[Signature]* Date: \_\_\_\_\_ Time: \_\_\_\_\_

Delivered By: (Circle One) *UPS*  UPS  Bus  Other

Sample Condition:  Cool  Intact  Yes  No

CHECKED BY: *[Signature]*

Phone Result:  Yes  No  Add'l Phone #: \_\_\_\_\_

Fax Result:  Yes  No  Add'l Fax #: \_\_\_\_\_

REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#94



**CARDINAL LABORATORIES**  
 101 East Marland, Hobbs, NM 88240  
 (505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

Company Name: BBC International, Inc.		<b>BILL TO</b>		ANALYSIS REQUEST	
Project Manager: Cliff Brunson		P.O. #:			
Address: P.O. Box 805		Company:			
City: Hobbs		Attn:			
State: NM Zip: 88241		Address:			
Phone #: 575-397-6388		City:			
Fax #: 575-397-0397		State:			
Project #: <i>CD Woodworth</i>		Project Owner: <i>CD</i>			
Project Location:		Phone #:			
Sampler Name: <i>Fred Brown</i>		Fax #:			
FOR LAB USE ONLY		DATE		TIME	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER
<i>H4D2677</i>	<i>11 SP3 261</i>	<i>6</i>	<i>1</i>	SOIL	OIL
		SLUDGE	OTHER :	ACID/BASE:	ICE / COOL
		OTHER :	OTHER :		
		DATE	TIME	<i>JPH BTX</i>	
		<i>9/5/19</i>	<i>1:00</i>		

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Relinquished By: *[Signature]* Date: *9/6/19* Time: *1:10*

Received By: *[Signature]* Date: *9/5/19* Time: *1:00*

Delivered By: (Circle One) *UPS*  UPS  Bus  Other: *4c*

Sample Condition:  Intact  Yes  No

CHECKED BY: *[Signature]*

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

*#54*

## Kathy Purvis

---

**From:** Oberding, Tomas, EMNRD <Tomas.Oberding@state.nm.us>  
**Sent:** Wednesday, October 22, 2014 3:55 PM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** RE: OXY - CD Woolworth Tank Battery - Remediation Plan

Aloha Mr. Brunson et al,

Thank you for the update on the Woolworth battery.  
Based on the documentation OCD approves the scope of work.

Please keep me informed as the situation warrants.  
Mahalo

Tomáš 'Doc' Oberding, PhD  
Environmental Specialist – New Mexico Oil Conservation Division  
Energy, Minerals and Natural Resources Department  
1625 N. French Dr.  
Hobbs, NM 88240  
(O): (575) 393-6161 ext 111  
(C): 575-370-3180  
(F): (575) 393-0720  
E-Mail: [tomas.oberding@state.nm.us](mailto:tomas.oberding@state.nm.us)  
Website: <http://www.emnrd.state.nm.us/ocd/>

---

**From:** Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Wednesday, October 22, 2014 10:21 AM  
**To:** Oberding, Tomas, EMNRD  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY - CD Woolworth Tank Battery - Remediation Plan

Tomas,

This e-mail is to confirm our conversation today, October 21, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. The agreed upon remediation plan is on the first page of the attachment along with the RP number per your previous request. This site is a State only jurisdiction location.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
President  
BBC International, Inc.  
World-Wide Environmental Specialists  
Mailing Address:  
P. O. Box 805  
Hobbs, NM 88241-0805 USA  
Shipping Address:  
1324 W. Marland St.

Hobbs, NM 88240 USA

Phone: (575) 397-6388

Fax: (575) 397-0397

E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

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