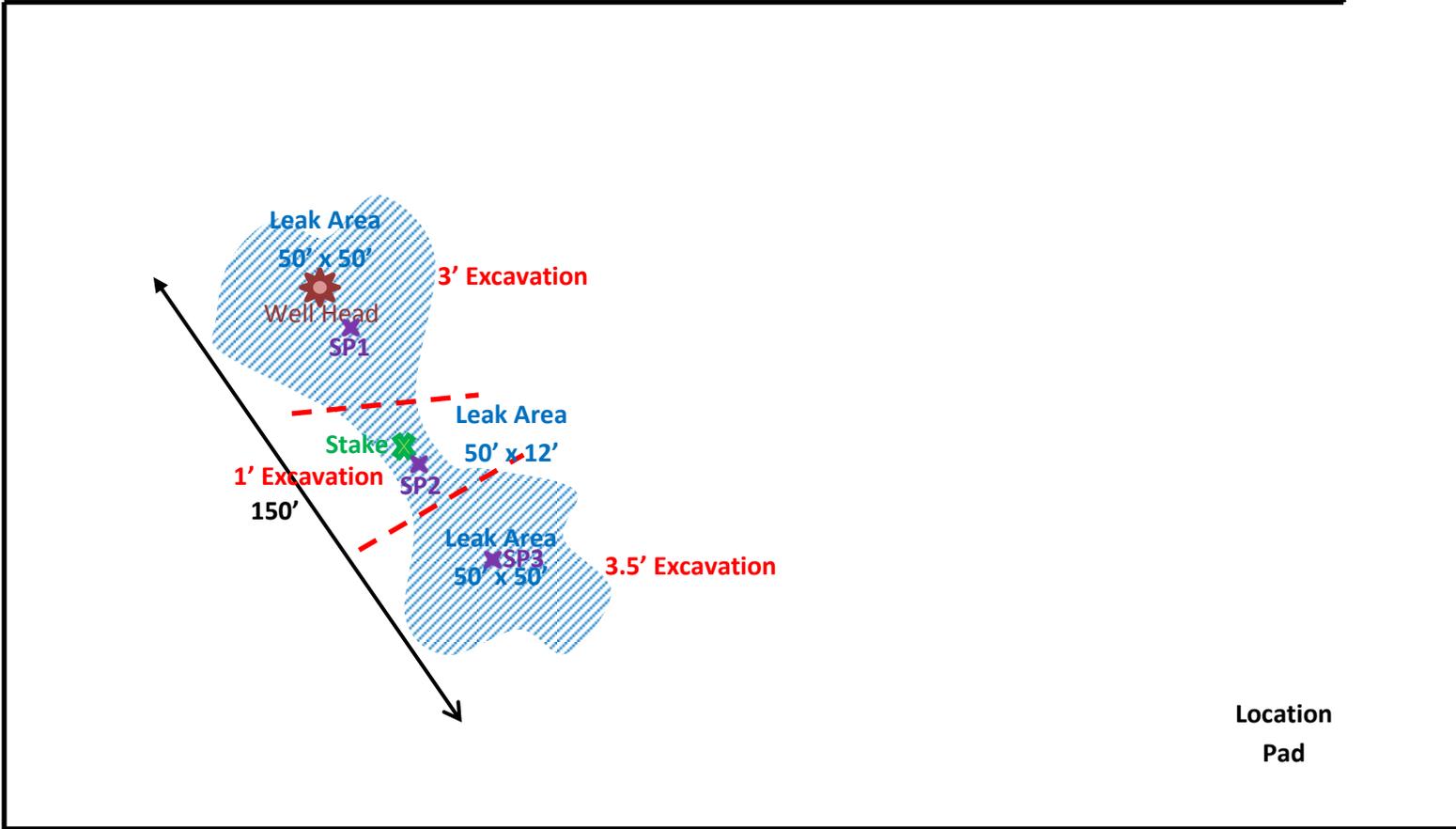




Oxy  
Federal 12 #2H

Road



U/L O, Section 1, T23S, R30E  
1159' FSL, 1543' FEL  
Eddy County, NM  
N 32.32977° W 103.83082° at the stake  
API# 30-015-41344

<b>BBC International, Inc.</b>	
<b>Oxy</b> <b>Federal 12 #2H</b>	
Date: 05/15/2014	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2014



# Groundwater Plot

## Oxy Federal 12 #2H

County  
Eddy

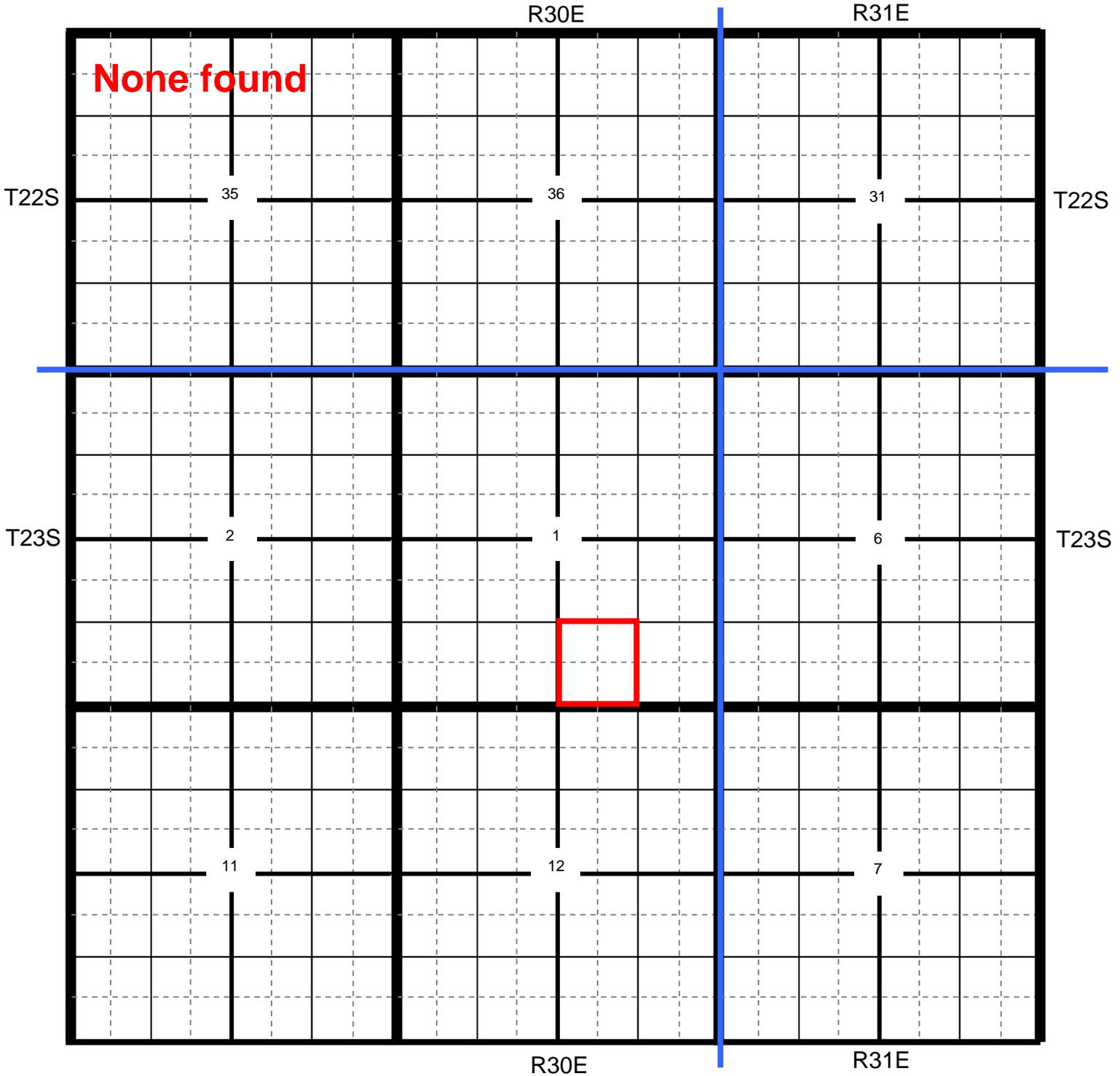
Unit Letter  
O

Section  
1

Township  
23S

Range  
30E

Trend Map 250'



📍 Location

● OCD

● USGS

● SEO

● All Databases

Section Quarters

Oxy Federal 12 #2H

County Eddy      Unit Letter O      Section 1      Township 23S      Range 30E

Trend Map 250'

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	<b>SW/SE</b>	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4





July 29, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: FEDERAL 12 #2H

Enclosed are the results of analyses for samples received by the laboratory on 07/22/14 14:15.

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 "Hope S. Moreno". The signature is written in a cursive style.

Hope S. Moreno For 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:	07/22/2014	Sampling Date:	07/21/2014
Reported:	07/29/2014	Sampling Type:	Soil
Project Name:	FEDERAL 12 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - WIPP SITE ROAD		

**Sample ID: SP 1 @ 1 (H402221-01)**

BTEX 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2014	ND	1.87	93.7	2.00	1.24	
Toluene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	0.842	
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2014	ND	5.92	98.6	6.00	2.11	
Total BTEX	<0.300	0.300	07/25/2014	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 89.4-126*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2160</b>	16.0	07/25/2014	ND	400	100	400	0.00	

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	07/23/2014	ND	192	96.1	200	8.16	
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	208	104	200	6.40	

*Surrogate: 1-Chlorooctane 136 % 65.2-140*
*Surrogate: 1-Chlorooctadecane 155 % 63.6-154*

Cardinal Laboratories

\*=Accredited Analyte

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Hope S. Moreno For 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:	07/22/2014	Sampling Date:	07/21/2014
Reported:	07/29/2014	Sampling Type:	Soil
Project Name:	FEDERAL 12 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - WIPP SITE ROAD		

**Sample ID: SP 1 @ 2 (H402221-02)**

BTEX 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2014	ND	1.87	93.7	2.00	1.24	
Toluene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	0.842	
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2014	ND	5.92	98.6	6.00	2.11	
Total BTEX	<0.300	0.300	07/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3800</b>	16.0	07/25/2014	ND	400	100	400	0.00	

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	07/23/2014	ND	192	96.1	200	8.16	
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	208	104	200	6.40	

Surrogate: 1-Chlorooctane 126 % 65.2-140

Surrogate: 1-Chlorooctadecane 146 % 63.6-154

**Sample ID: SP 1 @ 3 (H402221-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1760</b>	16.0	07/25/2014	ND	400	100	400	0.00	

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Hope S. Moreno For 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:	07/22/2014	Sampling Date:	07/21/2014
Reported:	07/29/2014	Sampling Type:	Soil
Project Name:	FEDERAL 12 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - WIPP SITE ROAD		

**Sample ID: SP 1 @ 4 (H402221-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	07/25/2014	ND	400	100	400	0.00	

**Sample ID: SP 1 @ 5 (H402221-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/25/2014	ND	400	100	400	0.00	

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Hope S. Moreno For 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:	07/22/2014	Sampling Date:	07/21/2014
Reported:	07/29/2014	Sampling Type:	Soil
Project Name:	FEDERAL 12 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - WIPP SITE ROAD		

**Sample ID: SP 2 @ 1 (H402221-06)**

BTEX 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2014	ND	1.87	93.7	2.00	1.24	
Toluene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	0.842	
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2014	ND	5.92	98.6	6.00	2.11	
Total BTEX	<0.300	0.300	07/25/2014	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	07/25/2014	ND	400	100	400	0.00	

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	07/23/2014	ND	162	81.2	200	3.50	
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	174	86.8	200	5.19	

Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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Hope S. Moreno For 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:	07/22/2014	Sampling Date:	07/21/2014
Reported:	07/29/2014	Sampling Type:	Soil
Project Name:	FEDERAL 12 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - WIPP SITE ROAD		

**Sample ID: SP 2 @ 2 (H402221-07)**

BTEX 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2014	ND	1.87	93.7	2.00	1.24	
Toluene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	0.842	
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2014	ND	5.92	98.6	6.00	2.11	
Total BTEX	<0.300	0.300	07/25/2014	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>880</b>	16.0	07/25/2014	ND	400	100	400	0.00	

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	07/23/2014	ND	162	81.2	200	3.50	
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	174	86.8	200	5.19	

Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 63.6-154

**Sample ID: SP 2 @ 3 (H402221-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	07/25/2014	ND	400	100	400	0.00	

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Hope S. Moreno For 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:	07/22/2014	Sampling Date:	07/21/2014
Reported:	07/29/2014	Sampling Type:	Soil
Project Name:	FEDERAL 12 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - WIPP SITE ROAD		

**Sample ID: SP 3 @ 1 (H402221-09)**

BTEX 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2014	ND	1.87	93.7	2.00	1.24	
Toluene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	0.842	
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2014	ND	5.92	98.6	6.00	2.11	
Total BTEX	<0.300	0.300	07/25/2014	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1730</b>	16.0	07/25/2014	ND	400	100	400	0.00	

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	07/23/2014	ND	162	81.2	200	3.50	
DRO >C10-C28	<10.0	10.0	07/23/2014	ND	174	86.8	200	5.19	

Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 122 % 63.6-154

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Hope S. Moreno For 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:	07/22/2014	Sampling Date:	07/21/2014
Reported:	07/29/2014	Sampling Type:	Soil
Project Name:	FEDERAL 12 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - WIPP SITE ROAD		

**Sample ID: SP 3 @ 2 (H402221-10)**

BTEX 8021B		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/25/2014	ND	1.87	93.7	2.00	1.24	
Toluene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	0.842	
Ethylbenzene*	<0.050	0.050	07/25/2014	ND	1.87	93.5	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/25/2014	ND	5.92	98.6	6.00	2.11	
Total BTEX	<0.300	0.300	07/25/2014	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>864</b>	16.0	07/25/2014	ND	400	100	400	0.00	

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	07/23/2014	ND	162	81.2	200	3.50	
<b>DRO &gt;C10-C28</b>	<b>30.0</b>	10.0	07/23/2014	ND	174	86.8	200	5.19	

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 127 % 63.6-154

**Sample ID: SP 3 @ 3 (H402221-11)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>8530</b>	16.0	07/25/2014	ND	400	100	400	0.00	

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- 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

---

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---

Hope S. Moreno For 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** Address:  
 Project #: **Project Owner: OXY** City:  
 Project Name: **Federal 12#22** State: Zip:  
 Project Location: **WPP SITE Rd** Phone #: Fax #:  
 Sampler Name: **Bill Brunson** For Lab Use Only

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH	BTEX	Cl-
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<b>410221</b>	<b>SP101</b>			X	X	X	X	X	X					
	<b>802</b>			X	X	X	X	X	X					
	<b>804</b>			X	X	X	X	X	X					
	<b>805</b>			X	X	X	X	X	X					
	<b>803</b>			X	X	X	X	X	X					
	<b>SP301</b>			X	X	X	X	X	X					
	<b>802</b>			X	X	X	X	X	X					

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Relinquished By: **Bill Brunson** Date: **7-22-14** Received By: **John Henderson** Time: **8:15**  
 Relinquished By: **Bill Brunson** Date: **8:15** Received By: **John Henderson** Time: **8:15**

Delivered By: (Circle One) **-DUE** Sample Condition:  Intact  Cool  Yes  No  Yes  No  No  
 Sampler - UPS - Bus - Other: **-DUE** CHECKED BY: **[Signature]**

Phone Result:  Yes  No Add'l Phone #: **#54**  
 Fax Result:  Yes  No Add'l Fax #: **#54**

REMARKS:



**CARDINAL LABORATORIES**

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

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

2/2

**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** Address: \_\_\_\_\_  
 Phone #: **575-397-6388** Fax #: **575-397-0397** City: \_\_\_\_\_  
 Project #: \_\_\_\_\_ Project Owner: **Same** State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Project Name: **Federal 12 #24 Oxy** Phone #: \_\_\_\_\_  
 Project Location: **WPP Site Rd** Fax #: \_\_\_\_\_  
 Sampler Name: **Wet Samples**

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<b>ADDRESS 11</b>	<b>SP303</b>		<b>51</b>			<b>X</b>				<b>X</b>		<b>7-21</b>	<b>333</b>	<b>X</b>

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Relinquished By: **[Signature]** Date: **7-22-14** Received By: **Cliff Brunson** Date: **8-15**  
 Time: \_\_\_\_\_ Time: \_\_\_\_\_

Delivered By: (Circle One) **UPS**  **Bus**  **Other**  Sample Condition:  **Cool**  **Intact**  **Yes**  **No** CHECKED BY: **[Signature]**

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

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

454



November 03, 2014

Cliff Brunson  
BBC International, Inc.  
P.O. Box 805  
Hobbs, NM 88241

RE: FEDERAL 12 #2H

Enclosed are the results of analyses for samples received by the laboratory on 10/30/14 9:17.

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".

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:	10/30/2014	Sampling Date:	10/28/2014
Reported:	11/03/2014	Sampling Type:	Soil
Project Name:	FEDERAL 12 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - WIPP SITE ROAD		

**Sample ID: SP 3 @ 4 (H403342-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>256</b>	16.0	10/30/2014	ND	400	100	400	3.92	

**Sample ID: SP 3 @ 5 (H403342-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>336</b>	16.0	10/30/2014	ND	400	100	400	3.92	

**Sample ID: SP 3 @ 7 (H403342-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>304</b>	16.0	10/30/2014	ND	400	100	400	3.92	

**Sample ID: SP 3 @ 9 (H403342-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>528</b>	16.0	10/30/2014	ND	400	100	400	3.92	

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:	10/30/2014	Sampling Date:	10/28/2014
Reported:	11/03/2014	Sampling Type:	Soil
Project Name:	FEDERAL 12 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - WIPP SITE ROAD		

**Sample ID: SP 3 @ 11 (H403342-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>464</b>	16.0	10/30/2014	ND	400	100	400	3.92	

**Sample ID: SP 3 @ 12 (H403342-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	10/30/2014	ND	400	100	400	3.92	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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



**CARDINAL LABORATORIES**

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

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

Company Name: BBC International, Inc.

**BILL TO**

ANALYSIS REQUEST

Project Manager: Cliff Brunson

P.O. #:

Address: P.O. Box 805

Company:

City: Hobbs

Attn:

Phone #: 575-397-6388

Address:

Project #:

Project Owner: OXY

City: Sme

Project Name: Federal 12 #2H

State: Zip:

Project Location: WIPP Rd

Phone #:

Sampler Name: V-B

Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	SAMPLING	DATE	TIME						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :										
H4D3342	SP304		1	X	X	X	X	X	X	X	10-28	1035	X						
	005		1	X	X	X	X	X	X	X	1058	1250	X						
	007		1	X	X	X	X	X	X	X	115	125	X						
	011		1	X	X	X	X	X	X	X	125	130	X						
	012		1	X	X	X	X	X	X	X			X						

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Relinquished By: [Signature]

Date: 10-29-14

Time: 9:00

Received By: Jennifer Gilbey

Phone Result:  Yes  No

Fax Result:  Yes  No

Add'l Phone #:

Add'l Fax #:

Relinquished By: [Signature]

Date: 10-29-14

Time: 9:14

Received By: [Signature]

Phone Result:  Yes  No

Fax Result:  Yes  No

Add'l Phone #:

Add'l Fax #:

Relinquished By: [Signature]

Date: 10-29-14

Time: 9:14

Received By: [Signature]

Phone Result:  Yes  No

Fax Result:  Yes  No

Add'l Phone #:

Add'l Fax #:

Relinquished By: [Signature]

Date: 10-29-14

Time: 9:14

Received By: [Signature]

Phone Result:  Yes  No

Fax Result:  Yes  No

Add'l Phone #:

Add'l Fax #:

Relinquished By: [Signature]

Date: 10-29-14

Time: 9:14

Received By: [Signature]

Phone Result:  Yes  No

Fax Result:  Yes  No

Add'l Phone #:

Add'l Fax #:

Relinquished By: [Signature]

Date: 10-29-14

Time: 9:14

Received By: [Signature]

Phone Result:  Yes  No

Fax Result:  Yes  No

Add'l Phone #:

Add'l Fax #:

Relinquished By: [Signature]

Date: 10-29-14

Time: 9:14

Received By: [Signature]

Phone Result:  Yes  No

Fax Result:  Yes  No

Add'l Phone #:

Add'l Fax #:

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

#54

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

Form C-141  
Revised August 8, 2011

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

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	Occidental Permian	Contact	Charles F. Bullard Jr.
Address	6 Desta Drive, Ste. 6000, Midland, TX 79705	Telephone No.	(432) 685-5719
Facility Name	Federal 12 #2H	Facility Type	Drilling location
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-41344

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	1	23S	30E	1159	South	1543	East	Eddy County, NM

Latitude N 32.32984° Longitude W 103.83012°

**NATURE OF RELEASE**

Type of Release	Produced water	Volume of Release	45 bbls	Volume Recovered	20 bbls
Source of Release	Transfer from cellar to open-top tank and valve was left open causing water spill over	Date and Hour of Occurrence	03/18/2014	Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Bobby Girndt, BLM		
By Whom?	Tommy Sikes	Date and Hour	03/18/2014 at 6:30 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input 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 transfer from cellar to open-top tank and the valve was left open causing 45 bbls of produced water to leak onto the ground. A vacuum truck recovered 20 bbls of produced water and the transfer/valve were closed.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 40' x 45' around the outside of the sub and along the pipe wrangler. Remediation will be completed in accordance with a remediation plan approved by NMOCD and the BLM.

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>C.F. Bullard Jr.</i>	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Charles F. Bullard Jr.	Approved by Environmental Specialist:		
Title: Drilling HES Ops Advisor	Approval Date:	Expiration Date:	
E-mail Address: Charles Bullard@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <i>4/16/14</i>	Phone: (432) 894-3769		

\* Attach Additional Sheets If Necessary