

**REVIEWED**

By Kellie Jones at 1:40 pm, Jan 29, 2016

WORLD-WIDE ENVIRONMENTAL SPECIALISTS



**APPROVED**

By Kellie Jones at 1:40 pm, Jan 29, 2016

PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805  
E-MAIL: cbrunson@bbcinternational.com

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## **OXY – STATE CM LEASE**

### **REMEDIATION PLAN**

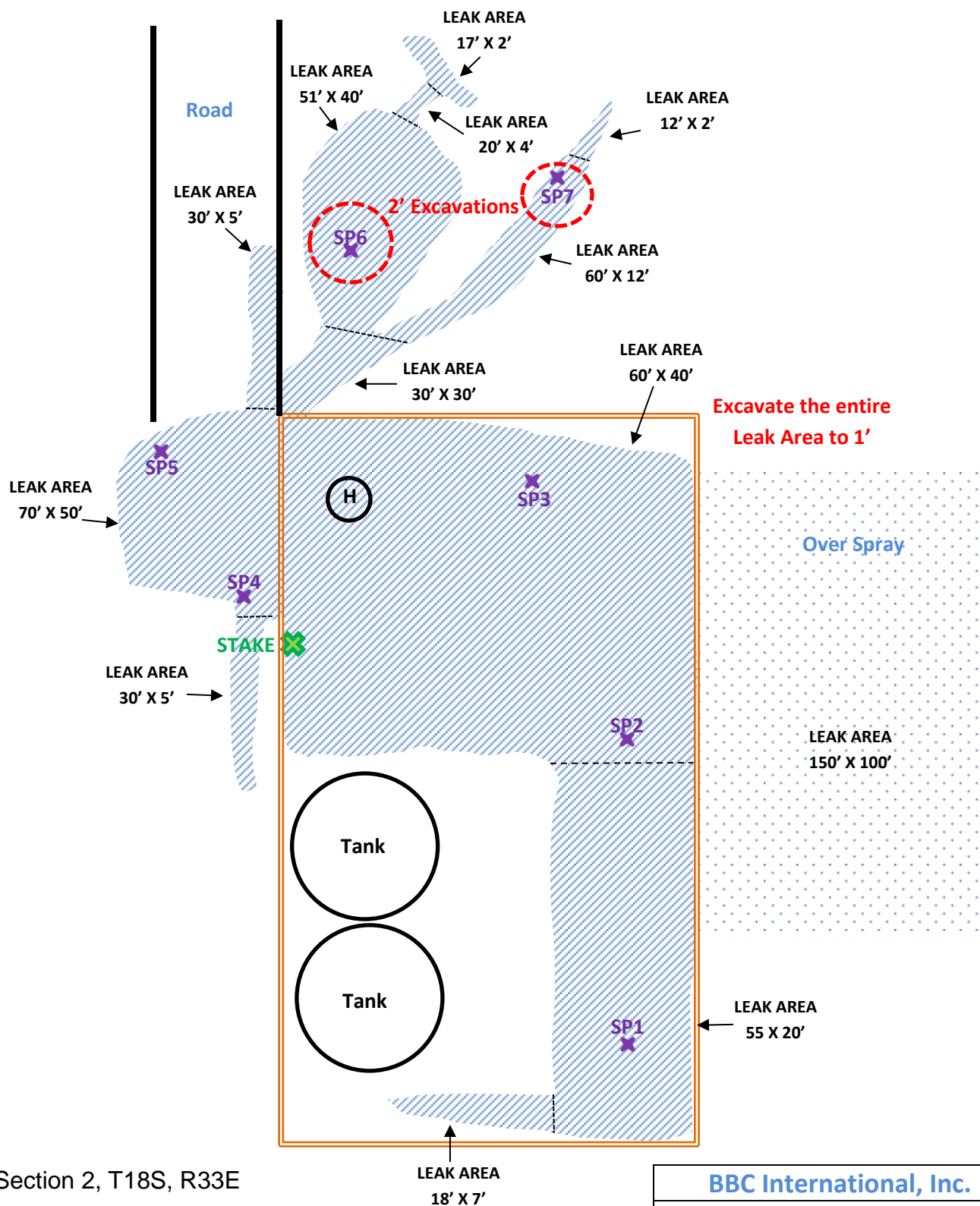
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OXY will excavate the spill area as depicted on the following site diagram. The entire spill area will be excavated to a depth of 1 foot and then in the areas of SP6 and SP7, the excavation will be 2 feet deep. The entire site will be backfilled with clean soil.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.



Oxy  
State CM Lease



U/L B, Section 2, T18S, R33E

Lea County, NM

N 32.78167° W 103.63077°

API# 30-025-01574

**BBC International, Inc.**

**Oxy  
State CM Lease**

Date: 11/12/15

DRWG by: J. Gilkey

NOT TO SCALE

File: Concho 2015

# Groundwater Plot

## Oxy State CM Battery

County  
Lea

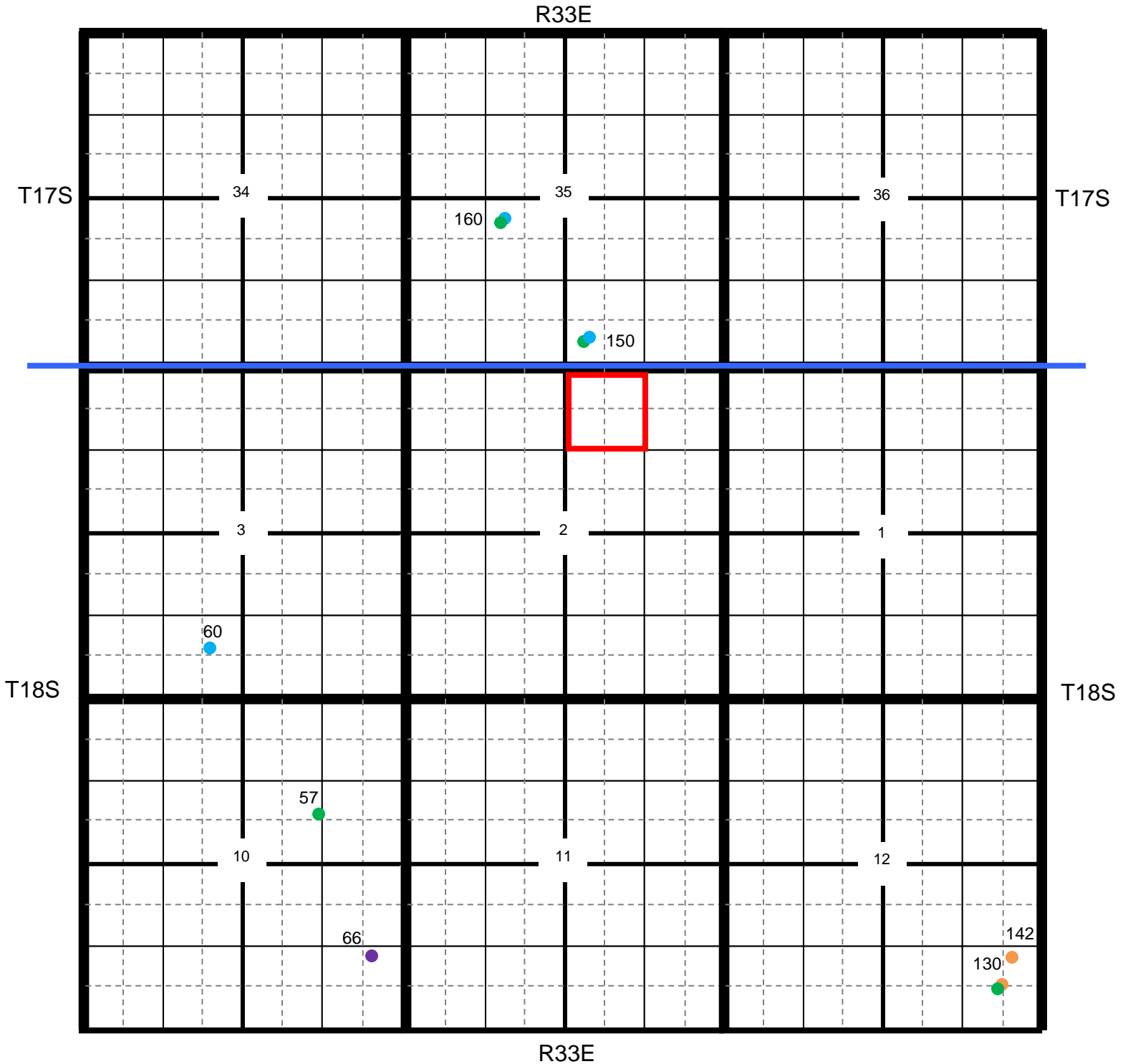
Unit Letter  
NE ¼

Section  
2

Township  
18S

Range  
33E

Trend Map 125'



★ Location

● OCD

● USGS

● SEO

● All Databases

# Section Quarters

## Oxy State CM Battery

**County** Lea      **Unit Letter** NE 1/4      **Section** 2      **Township** 18S      **Range** 33E

Trend Map 125'

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

**Laboratory Analytical Results Summary  
State CM Lease**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	11/10/15	11/30/15	11/30/15
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<b>1.44</b>	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>1.08</b>	<0.050	<b>0.069</b>
<b>Ethylbenzene</b>	BTEX 8021B		<b>10.8</b>	<0.050	<b>0.176</b>
<b>Total Xylenes</b>	BTEX 8021B		<b>16</b>	<0.150	<b>0.386</b>
<b>Total BTEX</b>	BTEX 8021B		<b>29.3</b>	<0.300	<b>0.63</b>
<b>Chloride</b>	SM4500Cl-B		<b>48</b>	n/a	n/a
<b>GRO</b>	TPH 8015M		<b>938</b>	<100	<50.0
<b>DRO</b>	TPH 8015M		<b>25700</b>	<b>352</b>	<b>646</b>

		Sample	SP2 @ 1'
Analyte	Method	Date	11/10/15
			mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050
<b>Toluene</b>	BTEX 8021B		<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300
<b>Chloride</b>	SM4500Cl-B		<b>144</b>
<b>GRO</b>	TPH 8015M		<10.0
<b>DRO</b>	TPH 8015M		<b>97.9</b>

		Sample	SP3 @ 1'
Analyte	Method	Date	11/10/15
			mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050
<b>Toluene</b>	BTEX 8021B		<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300
<b>Chloride</b>	SM4500Cl-B		<b>144</b>
<b>GRO</b>	TPH 8015M		<10.0
<b>DRO</b>	TPH 8015M		<b>71.3</b>

		Sample	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	11/10/15	11/30/15	11/30/15
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a	n/a
<b>Toluene</b>	BTEX 8021B		<b>0.461</b>	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<b>0.776</b>	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		<b>1.51</b>	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		<b>2.75</b>	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>880</b>	<b>288</b>	<b>288</b>
<b>GRO</b>	TPH 8015M		<50.0	n/a	n/a
<b>DRO</b>	TPH 8015M		<b>1340</b>	n/a	n/a

		Sample	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'
Analyte	Method	Date	11/10/15	11/30/15	11/30/15
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<b>0.056</b>	n/a	n/a
<b>Toluene</b>	BTEX 8021B		<b>1</b>	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<b>1.12</b>	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		<b>2.11</b>	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		<b>4.29</b>	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>944</b>	<b>304</b>	<b>272</b>
<b>GRO</b>	TPH 8015M		<50.0	n/a	n/a
<b>DRO</b>	TPH 8015M		<b>1410</b>	n/a	n/a

		Sample	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'
Analyte	Method	Date	11/10/15	11/30/15	11/30/15
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>608</b>	<b>784</b>	<b>640</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a	n/a
<b>DRO</b>	TPH 8015M		<b>28.6</b>	n/a	n/a

		Sample	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'
Analyte	Method	Date	11/10/15	11/30/15	11/30/15
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>640</b>	<b>800</b>	<b>608</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a	n/a
<b>DRO</b>	TPH 8015M		<b>85.8</b>	n/a	n/a



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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November 17, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: STATE CM LEASE

Enclosed are the results of analyses for samples received by the laboratory on 11/11/15 16:00.

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, flowing 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: 11/11/2015  
Reported: 11/17/2015  
Project Name: STATE CM LEASE  
Project Number: NOT GIVEN  
Project Location: NONE GIVEN

Sampling Date: 11/10/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Judy Garcia

**Sample ID: SP 1 @ 1' (H502997-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>1.44</b>	0.500	11/17/2015	ND	1.92	96.1	2.00	0.933	
<b>Toluene*</b>	<b>1.08</b>	0.500	11/17/2015	ND	2.16	108	2.00	1.02	
<b>Ethylbenzene*</b>	<b>10.8</b>	0.500	11/17/2015	ND	2.00	99.9	2.00	0.898	
<b>Total Xylenes*</b>	<b>16.0</b>	1.50	11/17/2015	ND	6.30	105	6.00	1.32	
<b>Total BTX</b>	<b>29.3</b>	3.00	11/17/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

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>48.0</b>	16.0	11/13/2015	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>938</b>	200	11/14/2015	ND	195	97.6	200	1.32		
<b>DRO &gt;C10-C28</b>	<b>25700</b>	200	11/14/2015	ND	195	97.7	200	1.13		

Surrogate: 1-Chlorooctane 169 % 35-147

Surrogate: 1-Chlorooctadecane 651 % 28-171

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:	11/11/2015	Sampling Date:	11/10/2015
Reported:	11/17/2015	Sampling Type:	Soil
Project Name:	STATE CM LEASE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Judy Garcia
Project Location:	NONE GIVEN		

**Sample ID: SP 2 @ 1' (H502997-02)**

BTX 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	11/17/2015	ND	1.92	96.1	2.00	0.933	
Toluene*	<0.050	0.050	11/17/2015	ND	2.16	108	2.00	1.02	
Ethylbenzene*	<0.050	0.050	11/17/2015	ND	2.00	99.9	2.00	0.898	
Total Xylenes*	<0.150	0.150	11/17/2015	ND	6.30	105	6.00	1.32	
Total BTX	<0.300	0.300	11/17/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/13/2015	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/14/2015	ND	195	97.6	200	1.32	
DRO >C10-C28	97.9	10.0	11/14/2015	ND	195	97.7	200	1.13	

Surrogate: 1-Chlorooctane 86.2 % 35-147

Surrogate: 1-Chlorooctadecane 96.1 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Received: 11/11/2015  
Reported: 11/17/2015  
Project Name: STATE CM LEASE  
Project Number: NOT GIVEN  
Project Location: NONE GIVEN

Sampling Date: 11/10/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Judy Garcia

**Sample ID: SP 3 @ 1' (H502997-03)**

BTX 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	11/17/2015	ND	1.92	96.1	2.00	0.933	
Toluene*	<0.050	0.050	11/17/2015	ND	2.16	108	2.00	1.02	
Ethylbenzene*	<0.050	0.050	11/17/2015	ND	2.00	99.9	2.00	0.898	
Total Xylenes*	<0.150	0.150	11/17/2015	ND	6.30	105	6.00	1.32	
Total BTX	<0.300	0.300	11/17/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/13/2015	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/14/2015	ND	195	97.6	200	1.32	
DRO >C10-C28	71.3	10.0	11/14/2015	ND	195	97.7	200	1.13	

Surrogate: 1-Chlorooctane 81.3 % 35-147

Surrogate: 1-Chlorooctadecane 85.0 % 28-171

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

Received: 11/11/2015  
Reported: 11/17/2015  
Project Name: STATE CM LEASE  
Project Number: NOT GIVEN  
Project Location: NONE GIVEN

Sampling Date: 11/10/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Judy Garcia

**Sample ID: SP 4 @ 1' (H502997-04)**

BTX 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	11/17/2015	ND	1.92	96.1	2.00	0.933	
<b>Toluene*</b>	<b>0.461</b>	0.050	11/17/2015	ND	2.16	108	2.00	1.02	
<b>Ethylbenzene*</b>	<b>0.776</b>	0.050	11/17/2015	ND	2.00	99.9	2.00	0.898	
<b>Total Xylenes*</b>	<b>1.51</b>	0.150	11/17/2015	ND	6.30	105	6.00	1.32	
<b>Total BTX</b>	<b>2.75</b>	0.300	11/17/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.6-140

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	11/13/2015	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	11/14/2015	ND	195	97.6	200	1.32	
<b>DRO &gt;C10-C28</b>	<b>1340</b>	50.0	11/14/2015	ND	195	97.7	200	1.13	

Surrogate: 1-Chlorooctane 75.4 % 35-147

Surrogate: 1-Chlorooctadecane 107 % 28-171

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\*=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: 11/11/2015  
Reported: 11/17/2015  
Project Name: STATE CM LEASE  
Project Number: NOT GIVEN  
Project Location: NONE GIVEN

Sampling Date: 11/10/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Judy Garcia

**Sample ID: SP 5 @ 1' (H502997-05)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.056	0.050	11/17/2015	ND	1.96	98.0	2.00	0.526	
Toluene*	1.00	0.050	11/17/2015	ND	2.22	111	2.00	0.925	
Ethylbenzene*	1.12	0.050	11/17/2015	ND	2.06	103	2.00	1.09	
Total Xylenes*	2.11	0.150	11/17/2015	ND	6.46	108	6.00	0.960	
Total BTEX	4.29	0.300	11/17/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	11/13/2015	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	11/14/2015	ND	195	97.6	200	1.32	
DRO >C10-C28	1410	50.0	11/14/2015	ND	195	97.7	200	1.13	

Surrogate: 1-Chlorooctane 86.2 % 35-147

Surrogate: 1-Chlorooctadecane 124 % 28-171

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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: 11/11/2015  
Reported: 11/17/2015  
Project Name: STATE CM LEASE  
Project Number: NOT GIVEN  
Project Location: NONE GIVEN

Sampling Date: 11/10/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Judy Garcia

**Sample ID: SP 6 @ 1' (H502997-06)**

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	11/17/2015	ND	1.96	98.0	2.00	0.526	
Toluene*	<0.050	0.050	11/17/2015	ND	2.22	111	2.00	0.925	
Ethylbenzene*	<0.050	0.050	11/17/2015	ND	2.06	103	2.00	1.09	
Total Xylenes*	<0.150	0.150	11/17/2015	ND	6.46	108	6.00	0.960	
Total BTEx	<0.300	0.300	11/17/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	11/13/2015	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/14/2015	ND	195	97.6	200	1.32	
DRO >C10-C28	28.6	10.0	11/14/2015	ND	195	97.7	200	1.13	

Surrogate: 1-Chlorooctane 93.7 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

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: 11/11/2015  
Reported: 11/17/2015  
Project Name: STATE CM LEASE  
Project Number: NOT GIVEN  
Project Location: NONE GIVEN

Sampling Date: 11/10/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Judy Garcia

**Sample ID: SP 7 @ 1' (H502997-07)**

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	11/17/2015	ND	1.96	98.0	2.00	0.526	
Toluene*	<0.050	0.050	11/17/2015	ND	2.22	111	2.00	0.925	
Ethylbenzene*	<0.050	0.050	11/17/2015	ND	2.06	103	2.00	1.09	
Total Xylenes*	<0.150	0.150	11/17/2015	ND	6.46	108	6.00	0.960	
Total BTEx	<0.300	0.300	11/17/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	11/13/2015	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/14/2015	ND	195	97.6	200	1.32	
DRO >C10-C28	85.8	10.0	11/14/2015	ND	195	97.7	200	1.13	

Surrogate: 1-Chlorooctane 86.5 % 35-147

Surrogate: 1-Chlorooctadecane 91.8 % 28-171

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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

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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

141

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name:

Project Location:

Sample Name:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.  
# CONTAINERS  
GROUNDWATER  
WASTEWATER  
MATRIX  
SOIL  
OIL  
SLUDGE  
OTHER :  
ACID/BASE:  
ICE / COOL  
OTHER :

DATE

TIME

TPH  
BTEX  
CHLORIDE

### BILL TO

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

### ANALYSIS REQUEST

Relinquished By:

Date:

Received By:

Phone Result:

Yes No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Relinquished By:

Date:

Received By:

Phone Result:

Yes No

Add'l Phone #:

Add'l Fax #:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool Intact

Yes No

CHECKED BY: (Initials)

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

---

December 08, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: STATE CM LEASE

Enclosed are the results of analyses for samples received by the laboratory on 12/01/15 14:45.

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, flowing 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: 12/01/2015  
 Reported: 12/08/2015  
 Project Name: STATE CM LEASE  
 Project Number: NOT GIVEN  
 Project Location: HWY #529

 Sampling Date: 11/30/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 2' (H503144-01)**

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	12/03/2015	ND	1.71	85.5	2.00	0.862	
Toluene*	<0.050	0.050	12/03/2015	ND	1.71	85.5	2.00	0.866	
Ethylbenzene*	<0.050	0.050	12/03/2015	ND	1.77	88.4	2.00	1.29	
Total Xylenes*	<0.150	0.150	12/03/2015	ND	5.34	89.0	6.00	1.20	
Total BTEX	<0.300	0.300	12/03/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

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	12/03/2015	ND	193	96.3	200	4.68	
DRO >C10-C28	352	100	12/03/2015	ND	190	94.8	200	6.86	

Surrogate: 1-Chlorooctane 102 % 35-147

Surrogate: 1-Chlorooctadecane 138 % 28-171

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:	12/01/2015	Sampling Date:	11/30/2015
Reported:	12/08/2015	Sampling Type:	Soil
Project Name:	STATE CM LEASE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	HWY #529		

**Sample ID: SP 1 @ 3' (H503144-02)**

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	12/03/2015	ND	1.71	85.5	2.00	0.862	
Toluene*	0.069	0.050	12/03/2015	ND	1.71	85.5	2.00	0.866	
Ethylbenzene*	0.176	0.050	12/03/2015	ND	1.77	88.4	2.00	1.29	
Total Xylenes*	0.386	0.150	12/03/2015	ND	5.34	89.0	6.00	1.20	
Total BTEX	0.630	0.300	12/03/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

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	12/03/2015	ND	193	96.3	200	4.68	
DRO >C10-C28	646	50.0	12/03/2015	ND	190	94.8	200	6.86	

Surrogate: 1-Chlorooctane 95.8 % 35-147

Surrogate: 1-Chlorooctadecane 139 % 28-171

**Sample ID: SP 4 @ 2' (H503144-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	12/04/2015	ND	432	108	400	0.00	

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: 12/01/2015  
Reported: 12/08/2015  
Project Name: STATE CM LEASE  
Project Number: NOT GIVEN  
Project Location: HWY #529

Sampling Date: 11/30/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 3' (H503144-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	12/04/2015	ND	432	108	400	0.00	

**Sample ID: SP 5 @ 2' (H503144-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/04/2015	ND	432	108	400	0.00	

**Sample ID: SP 5 @ 3' (H503144-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/04/2015	ND	432	108	400	0.00	

**Sample ID: SP 6 @ 2' (H503144-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	12/04/2015	ND	432	108	400	0.00	

**Sample ID: SP 6 @ 3' (H503144-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	12/04/2015	ND	432	108	400	0.00	

Cardinal Laboratories

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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: 12/01/2015  
Reported: 12/08/2015  
Project Name: STATE CM LEASE  
Project Number: NOT GIVEN  
Project Location: HWY #529

Sampling Date: 11/30/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 2' (H503144-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	12/04/2015	ND	432	108	400	0.00		

**Sample ID: SP 7 @ 3' (H503144-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	12/04/2015	ND	432	108	400	0.00	

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

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Cardinal Laboratories

\*=Accredited Analyte

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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

1 of 1

Company Name: BBC International, Inc.

**BILL TO**

ANALYSIS REQUEST

Project Manager: Cliff Brunson

P.O. #:

Address: P.O. Box 805

Company:

City: Hobbs

State: NM Zip: 88241

Attn:

Phone #: 575-397-6388

Fax #: 575-397-0397

Address:

Project #:

Project Owner: *OKY*

City:

Project Name:

STATE CM LEASE

State:

Project Location:

Hwy # 529

Phone #:

Sample Name:

*Diaper Hernandez*

Fax #:

FOR LAB USE ONLY

MATRIX

PRESERV

SAMPLING

Lab I.D.

Sample I.D.

*#503144*

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE TIME

TPH  
BTEX  
CHLORIDE

1	SP1 @ 2' ✓	G	1	✓	11-20-15	9:00	✓	✓											
2	SP2 @ 3' ✓	G	1	✓	11-30-15	9:25	✓	✓											
3	SP4 @ 2' ✓	G	1	✓	11-30-15	9:50													
4	SP5 @ 3' ✓	G	1	✓	11-30-15	10:15													
5	SP5 @ 2' ✓	G	1	✓	11-30-15	10:40													
6	SP6 @ 2' ✓	G	1	✓	11-30-15	11:05													
7	SP6 @ 2' ✓	G	1	✓	11-30-15	11:30													
8	SP7 @ 2' ✓	G	1	✓	11-30-15	11:55													
9	SP7 @ 2' ✓	G	1	✓	11-30-15	108													
10	SP7 @ 2' ✓	G	1	✓	11-30-15	132													

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Relinquished By:

Date: *11-01-15*

Received By:

Phone Result:

☐ Yes ☐ No

☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

Relinquished By:

Date: *11-01-15*

Received By:

Phone Result:

☐ Yes ☐ No

☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

Delivered By: (Circle One)

Date: *11-01-15*

Received By:

Phone Result:

☐ Yes ☐ No

☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

Sampler - UPS - Bus - Other:

Date: *11-01-15*

Received By:

Phone Result:

☐ Yes ☐ No

☐ 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

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

<b>OPERATOR</b>		<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> Final Report
Name of Company	Oxy Permian Ltd.	Contact	Dusty Wilson
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(432) 685-5771
Facility Name	State CM Btry	Facility Type	Battery
Surface Owner	Mineral Owner	API No. 30-025-01574	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
NE ¼	2	18S	33E					Lea County, NM

Latitude N 32.78167° Longitude W 103.63077°

NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	50 bbl oil, 60 bbls produced water	Volume Recovered	100 bbls
Source of Release	Heater treater manway plate gasket blew out	Date and Hour of Occurrence	10/28/2015	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?	Kellie Jones, Jamie Keyes-NMOCD		
By Whom?	Kathy @ BBC International Inc.	Date and Time	10/29/2015	If YES, Volume Impacting the Watercourse.	
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

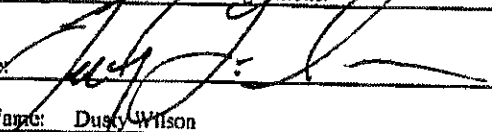
Heater treater manway plate gasket blew out leaking 50 bbls of oil and 60 bbls of produced water. A vacuum truck recovered 100 bbls of fluid and the gasket was replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 25' x 100' on location inside the berm and 50' x 100' outside of the berm both on and off the location. Remediation will be completed in accordance with the 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.

OIL CONSERVATION DIVISION

Signature: 	Approved by Environmental Specialist:		
Printed Name: Dusty Wilson			
Title: Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: Dusty.Wilson@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 11/19/2015	Phone: (432) 685-5771		

\* Attach Additional Sheets If Necessary