



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

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## **Oxy – Big Walt CTB (12/19/2016)**

### **REMEDIATION PLAN, RP # 2RP-4069**

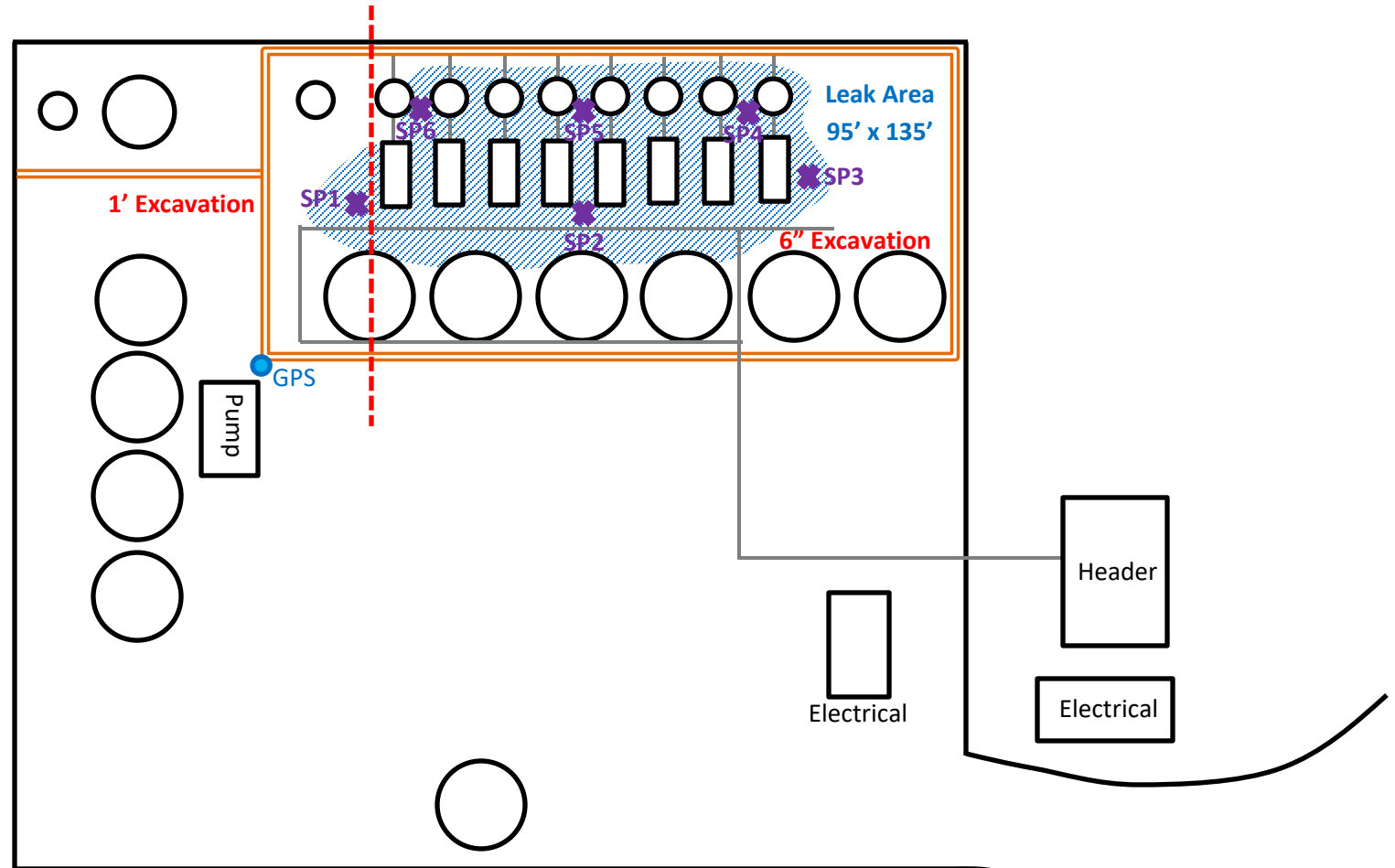
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Oxy will excavate the spill area as depicted on the following site diagram. The entire leak area will be excavated to a depth of 6 inches, except in the area of SP1, which will be excavated to a depth of 1 foot. The entire site will then be backfilled with clean soil.

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



Oxy  
Big Walt CTB (12/19/16)



U/L H, Section 2, T22S, R24E

Eddy County, NM

N 32.42237° W 104.46065°

API# 30-015-33442

**BBC International, Inc.**

**Oxy  
Big Walt CTB**

Date: 01/03/2016

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2016

# Groundwater Plot

## Oxy Big Walt CTB

County  
Eddy

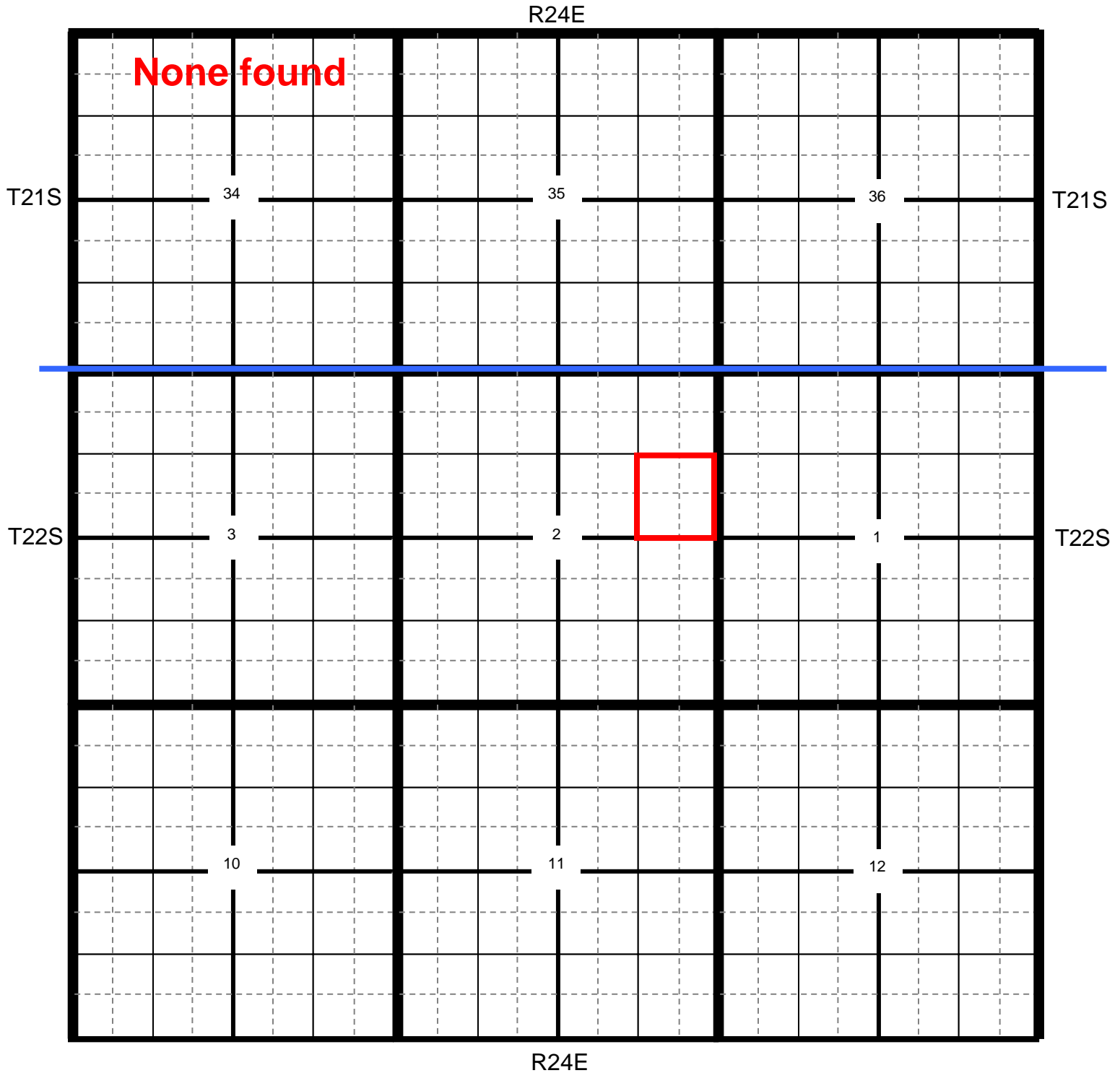
Unit Letter  
H

Section  
2

Township  
22S

Range  
24E

Trend Map 75'



★ Location

● OCD

● USGS

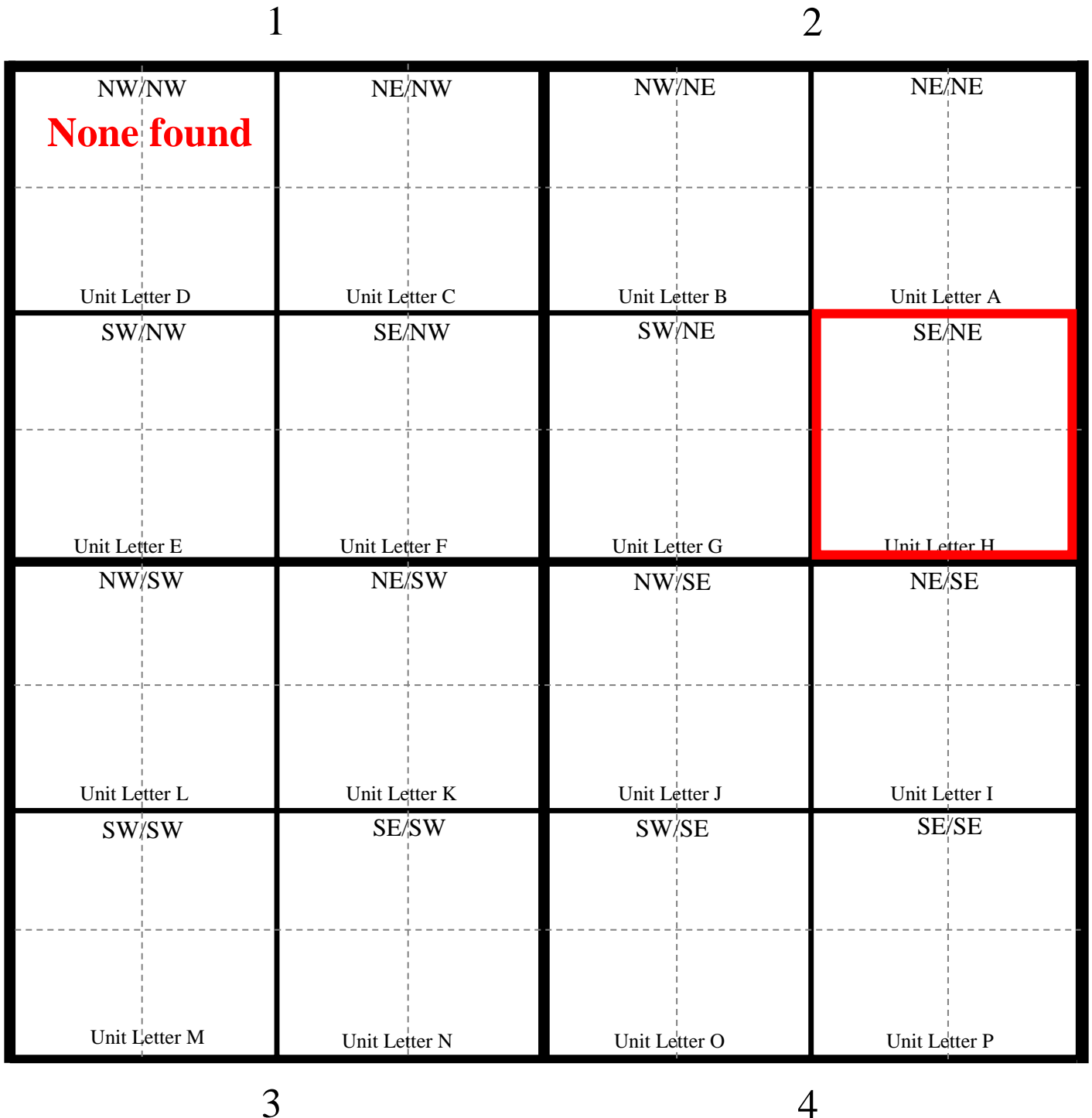
● SEO

● All Databases

## Oxy Big Walt CTB

County Eddy      Unit Letter H      Section 2      Township 22S      Range 24E

Trend Map 75'



**Laboratory Analytical Results Summary**  
**Big Walt CTB**

		Sample	SP1 @ SURFACE	SP1 @ 1'
Analyte	Method	Date	1/26/17	1/26/17
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.500	<0.100
<b>Toluene</b>	BTEX 8021B		<b>4.31</b>	<b>0.987</b>
<b>Ethylbenzene</b>	BTEX 8021B		<b>2.32</b>	<b>0.917</b>
<b>Total Xylenes</b>	BTEX 8021B		<b>29.8</b>	<b>9.22</b>
<b>Total BTEX</b>	BTEX 8021B		<b>36.4</b>	<b>11.1</b>
<b>Chloride</b>	SM4500Cl-B		<b>16</b>	<b>32</b>
<b>GRO</b>	TPH 8015M		<b>536</b>	<b>121</b>
<b>DRO</b>	TPH 8015M		<b>8120</b>	<b>2060</b>

		Sample	SP2 @ SURFACE	SP2 @ 1'
Analyte	Method	Date	1/26/17	1/26/17
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.200	<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.534</b>	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>0.741</b>	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>9.17</b>	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>10.4</b>	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>32</b>	<b>80</b>
<b>GRO</b>	TPH 8015M		<b>219</b>	<10.0
<b>DRO</b>	TPH 8015M		<b>4480</b>	<b>70.6</b>

		Sample	SP3 @ SURFACE	SP3 @ 1'
Analyte	Method	Date	1/26/17	1/26/17
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<b>0.705</b>	<0.050
<b>Toluene</b>	BTEX 8021B		<b>9.95</b>	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>3.24</b>	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>35.5</b>	<b>0.193</b>
<b>Total BTEX</b>	BTEX 8021B		<b>49.4</b>	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>16</b>	<b>64</b>
<b>GRO</b>	TPH 8015M		<b>538</b>	<10.0
<b>DRO</b>	TPH 8015M		<b>15200</b>	<b>179</b>

		Sample	SP4 @ SURFACE	SP4 @ 1'
Analyte	Method	Date	1/26/17	1/26/17
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.200	<0.050
<b>Toluene</b>	BTEX 8021B		<b>3.87</b>	<b>0.393</b>
<b>Ethylbenzene</b>	BTEX 8021B		<b>2.09</b>	<b>0.51</b>
<b>Total Xylenes</b>	BTEX 8021B		<b>19.2</b>	<b>4.66</b>
<b>Total BTEX</b>	BTEX 8021B		<b>25.1</b>	<b>5.56</b>
<b>Chloride</b>	SM4500Cl-B		<b>16</b>	<b>32</b>
<b>GRO</b>	TPH 8015M		<b>440</b>	<b>45.3</b>
<b>DRO</b>	TPH 8015M		<b>13600</b>	<b>958</b>

		Sample	SP5 @ SURFACE	SP5 @ 1'
Analyte	Method	Date	1/26/17	1/26/17
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.249</b>	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>0.536</b>	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>5.44</b>	<b>0.205</b>
<b>Total BTEX</b>	BTEX 8021B		<b>6.23</b>	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>32</b>	<b>48</b>
<b>GRO</b>	TPH 8015M		<b>75.5</b>	<10.0
<b>DRO</b>	TPH 8015M		<b>3940</b>	<b>1020</b>

		Sample	SP6 @ SURFACE	SP6 @ 1'
Analyte	Method	Date	1/26/17	1/26/17
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.100	<0.050
<b>Toluene</b>	BTEX 8021B		<0.100	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.100	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>0.521</b>	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.600	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>48</b>	<b>32</b>
<b>GRO</b>	TPH 8015M		<b>117</b>	<10.0
<b>DRO</b>	TPH 8015M		<b>10200</b>	<b>338</b>



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

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February 03, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BIG WALT CTB

Enclosed are the results of analyses for samples received by the laboratory on 01/27/17 11:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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: 01/27/2017  
Reported: 02/03/2017  
Project Name: BIG WALT CTB  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ SURFACE (H700207-01)**

BTX 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	02/01/2017	ND	1.98	98.8	2.00	0.451	
<b>Toluene*</b>	<b>4.31</b>	0.500	02/01/2017	ND	2.01	100	2.00	0.376	
<b>Ethylbenzene*</b>	<b>2.32</b>	0.500	02/01/2017	ND	2.06	103	2.00	0.437	
<b>Total Xylenes*</b>	<b>29.8</b>	1.50	02/01/2017	ND	5.86	97.7	6.00	0.156	
<b>Total BTX</b>	<b>36.4</b>	3.00	02/01/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	02/01/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>536</b>	10.0	01/30/2017	ND	188	93.8	200	3.89		
<b>DRO &gt;C10-C28</b>	<b>8120</b>	10.0	01/30/2017	ND	223	111	200	4.73		

Surrogate: 1-Chlorooctane 148 % 35-147

Surrogate: 1-Chlorooctadecane 248 % 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: 01/27/2017  
Reported: 02/03/2017  
Project Name: BIG WALT CTB  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1' (H700207-02)**

BTX 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	02/01/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	0.987	0.100	02/01/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	0.917	0.100	02/01/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	9.22	0.300	02/01/2017	ND	5.86	97.7	6.00	0.156	
Total BTX	11.1	0.600	02/01/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/01/2017	ND	432	108	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	121	10.0	01/30/2017	ND	188	93.8	200	3.89	
DRO >C10-C28	2060	10.0	01/30/2017	ND	223	111	200	4.73	

Surrogate: 1-Chlorooctane 94.4 % 35-147

Surrogate: 1-Chlorooctadecane 114 % 28-171

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

Received: 01/27/2017  
Reported: 02/03/2017  
Project Name: BIG WALT CTB  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ SURFACE (H700207-03)**

BTX 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	02/01/2017	ND	1.80	90.2	2.00	0.0822	
<b>Toluene*</b>	<b>0.534</b>	0.200	02/01/2017	ND	1.87	93.4	2.00	0.314	
<b>Ethylbenzene*</b>	<b>0.741</b>	0.200	02/01/2017	ND	1.92	96.0	2.00	0.650	
<b>Total Xylenes*</b>	<b>9.17</b>	0.600	02/01/2017	ND	5.45	90.9	6.00	0.777	
<b>Total BTX</b>	<b>10.4</b>	1.20	02/01/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	02/01/2017	ND	432	108	400	3.64	

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>219</b>	10.0	01/30/2017	ND	188	93.8	200	3.89	
<b>DRO &gt;C10-C28</b>	<b>4480</b>	10.0	01/30/2017	ND	223	111	200	4.73	

Surrogate: 1-Chlorooctane 126 % 35-147

Surrogate: 1-Chlorooctadecane 157 % 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: 01/27/2017  
 Reported: 02/03/2017  
 Project Name: BIG WALT CTB  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1' (H700207-04)**

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	02/01/2017	ND	1.80	90.2	2.00	0.0822		
Toluene*	<0.050	0.050	02/01/2017	ND	1.87	93.4	2.00	0.314		
Ethylbenzene*	<0.050	0.050	02/01/2017	ND	1.92	96.0	2.00	0.650		
Total Xylenes*	<0.150	0.150	02/01/2017	ND	5.45	90.9	6.00	0.777		
Total BTX	<0.300	0.300	02/01/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/01/2017	ND	432	108	400	3.64		

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	01/30/2017	ND	188	93.8	200	3.89	
DRO >C10-C28	70.6	10.0	01/30/2017	ND	223	111	200	4.73	

Surrogate: 1-Chlorooctane 80.6 % 35-147

Surrogate: 1-Chlorooctadecane 87.8 % 28-171

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Fax To: (575) 397-0397

Received: 01/27/2017  
Reported: 02/03/2017  
Project Name: BIG WALT CTB  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ SURFACE (H700207-05)**

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>0.705</b>	0.500	02/01/2017	ND	1.80	90.2	2.00	0.0822	
<b>Toluene*</b>	<b>9.95</b>	0.500	02/01/2017	ND	1.87	93.4	2.00	0.314	
<b>Ethylbenzene*</b>	<b>3.24</b>	0.500	02/01/2017	ND	1.92	96.0	2.00	0.650	
<b>Total Xylenes*</b>	<b>35.5</b>	1.50	02/01/2017	ND	5.45	90.9	6.00	0.777	
<b>Total BTX</b>	<b>49.4</b>	3.00	02/01/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	02/01/2017	ND	432	108	400	3.64	

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>538</b>	50.0	01/30/2017	ND	188	93.8	200	3.89		
<b>DRO &gt;C10-C28</b>	<b>15200</b>	50.0	01/30/2017	ND	223	111	200	4.73		

Surrogate: 1-Chlorooctane 123 % 35-147

Surrogate: 1-Chlorooctadecane 465 % 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: 01/27/2017  
 Reported: 02/03/2017  
 Project Name: BIG WALT CTB  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1' (H700207-06)**

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	02/01/2017	ND	1.80	90.2	2.00	0.0822	
Toluene*	<0.050	0.050	02/01/2017	ND	1.87	93.4	2.00	0.314	
Ethylbenzene*	<0.050	0.050	02/01/2017	ND	1.92	96.0	2.00	0.650	
<b>Total Xylenes*</b>	<b>0.193</b>	0.150	02/01/2017	ND	5.45	90.9	6.00	0.777	
Total BTX	<0.300	0.300	02/01/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	02/01/2017	ND	432	108	400	3.64	

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	01/30/2017	ND	188	93.8	200	3.89	
<b>DRO &gt;C10-C28</b>	<b>179</b>	10.0	01/30/2017	ND	223	111	200	4.73	

Surrogate: 1-Chlorooctane 79.3 % 35-147

Surrogate: 1-Chlorooctadecane 87.6 % 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: 01/27/2017  
 Reported: 02/03/2017  
 Project Name: BIG WALT CTB  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ SURFACE (H700207-07)**

BTX 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	02/01/2017	ND	1.80	90.2	2.00	0.0822	
<b>Toluene*</b>	<b>3.87</b>	0.200	02/01/2017	ND	1.87	93.4	2.00	0.314	
<b>Ethylbenzene*</b>	<b>2.09</b>	0.200	02/01/2017	ND	1.92	96.0	2.00	0.650	
<b>Total Xylenes*</b>	<b>19.2</b>	0.600	02/01/2017	ND	5.45	90.9	6.00	0.777	
<b>Total BTX</b>	<b>25.1</b>	1.20	02/01/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	02/01/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>440</b>	10.0	01/30/2017	ND	188	93.8	200	3.89		
<b>DRO &gt;C10-C28</b>	<b>13600</b>	10.0	01/30/2017	ND	223	111	200	4.73		

Surrogate: 1-Chlorooctane 156 % 35-147

Surrogate: 1-Chlorooctadecane 426 % 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: 01/27/2017  
Reported: 02/03/2017  
Project Name: BIG WALT CTB  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 1' (H700207-08)**

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	02/01/2017	ND	1.80	90.2	2.00	0.0822	
Toluene*	<b>0.393</b>	0.050	02/01/2017	ND	1.87	93.4	2.00	0.314	
Ethylbenzene*	<b>0.510</b>	0.050	02/01/2017	ND	1.92	96.0	2.00	0.650	
Total Xylenes*	<b>4.66</b>	0.150	02/01/2017	ND	5.45	90.9	6.00	0.777	
Total BTX	<b>5.56</b>	0.300	02/01/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 73.6-140

Chloride, SM4500CI-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>32.0</b>	16.0	02/01/2017	ND	432	108	400	3.64	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>45.3</b>	10.0	01/30/2017	ND	188	93.8	200	3.89	
DRO >C10-C28	<b>958</b>	10.0	01/30/2017	ND	223	111	200	4.73	

Surrogate: 1-Chlorooctane 85.1 % 35-147

Surrogate: 1-Chlorooctadecane 115 % 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: 01/27/2017  
Reported: 02/03/2017  
Project Name: BIG WALT CTB  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ SURFACE (H700207-09)**

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	02/01/2017	ND	1.80	90.2	2.00	0.0822	
Toluene*	<b>0.249</b>	0.050	02/01/2017	ND	1.87	93.4	2.00	0.314	
Ethylbenzene*	<b>0.536</b>	0.050	02/01/2017	ND	1.92	96.0	2.00	0.650	
Total Xylenes*	<b>5.44</b>	0.150	02/01/2017	ND	5.45	90.9	6.00	0.777	
Total BTX	<b>6.23</b>	0.300	02/01/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 73.6-140

Chloride, SM4500CI-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>32.0</b>	16.0	02/01/2017	ND	432	108	400	3.64	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>75.5</b>	10.0	01/30/2017	ND	188	93.8	200	3.89	
DRO >C10-C28	<b>3940</b>	10.0	01/30/2017	ND	223	111	200	4.73	

Surrogate: 1-Chlorooctane 77.5 % 35-147

Surrogate: 1-Chlorooctadecane 151 % 28-171

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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: 01/27/2017  
 Reported: 02/03/2017  
 Project Name: BIG WALT CTB  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 1' (H700207-10)**

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	02/01/2017	ND	1.80	90.2	2.00	0.0822	
Toluene*	<0.050	0.050	02/01/2017	ND	1.87	93.4	2.00	0.314	
Ethylbenzene*	<0.050	0.050	02/01/2017	ND	1.92	96.0	2.00	0.650	
Total Xylenes*	0.205	0.150	02/01/2017	ND	5.45	90.9	6.00	0.777	
Total BTX	<0.300	0.300	02/01/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/02/2017	ND	432	108	400	3.64	

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	01/31/2017	ND	194	96.9	200	0.147	
DRO >C10-C28	1020	10.0	01/31/2017	ND	234	117	200	0.541	

Surrogate: 1-Chlorooctane 88.5 % 35-147

Surrogate: 1-Chlorooctadecane 116 % 28-171

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**Analytical Results For:**

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

Received: 01/27/2017  
Reported: 02/03/2017  
Project Name: BIG WALT CTB  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 6 @ SURFACE (H700207-11)**

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	02/01/2017	ND	1.80	90.2	2.00	0.0822	
Toluene*	<0.100	0.100	02/01/2017	ND	1.87	93.4	2.00	0.314	
Ethylbenzene*	<0.100	0.100	02/01/2017	ND	1.92	96.0	2.00	0.650	
<b>Total Xylenes*</b>	<b>0.521</b>	0.300	02/01/2017	ND	5.45	90.9	6.00	0.777	
Total BTEX	<0.600	0.600	02/01/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	02/02/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	117	50.0	01/31/2017	ND	194	96.9	200	0.147	
DRO >C10-C28	10200	50.0	01/31/2017	ND	234	117	200	0.541	

Surrogate: 1-Chlorooctane 148 % 35-147

Surrogate: 1-Chlorooctadecane 384 % 28-171

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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: 01/27/2017  
Reported: 02/03/2017  
Project Name: BIG WALT CTB  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 6 @ 1' (H700207-12)**

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	02/01/2017	ND	1.80	90.2	2.00	0.0822		
Toluene*	<0.050	0.050	02/01/2017	ND	1.87	93.4	2.00	0.314		
Ethylbenzene*	<0.050	0.050	02/01/2017	ND	1.92	96.0	2.00	0.650		
Total Xylenes*	<0.150	0.150	02/01/2017	ND	5.45	90.9	6.00	0.777		
Total BTEx	<0.300	0.300	02/01/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/02/2017	ND	432	108	400	3.64	

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	01/31/2017	ND	194	96.9	200	0.147	
DRO >C10-C28	338	10.0	01/31/2017	ND	234	117	200	0.541	

Surrogate: 1-Chlorooctane 87.2 % 35-147

Surrogate: 1-Chlorooctadecane 97.3 % 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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1042

<b>Company Name:</b> BBC International Inc.						<b>BILL TO</b>						<b>ANALYSIS REQUEST</b>																	
<b>Project Manager:</b> Cliff Brunson						<b>P.O. #:</b>																							
<b>Address:</b> P.O. Box 805						<b>Company:</b> Oxy																							
<b>City:</b> Hobbs						<b>Attn:</b> Casey Summers																							
<b>State:</b> NM <b>Zip:</b> 88241						<b>Address:</b>																							
<b>Phone #:</b> 575-397-6388						<b>City:</b>																							
<b>Project #:</b>						<b>State:</b>																							
<b>Project Location:</b> Bigwater CTB						<b>Zip:</b>																							
<b>Sampler Name:</b> Price Runsam						<b>Phone #:</b>																							
<b>FOR LAB USE ONLY</b>						<b>Fax #:</b>																							
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING																	
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME													
H100207	SP1e Surface	G	1	>	>	>	>	>	>	>	>	>	>	>	11/26/17	10:00am	<	TPH	BTEX										
23345	SP2e Surface	G	1	>	>	>	>	>	>	>	>	>	>	>	10:30	10:40	<												
5722	SP3e Surface	G	1	>	>	>	>	>	>	>	>	>	>	>	10:55	11:15	<												
5722	SP3e Surface	G	1	>	>	>	>	>	>	>	>	>	>	>	11:35	12:00pm	<												
5722	SP4e Surface	G	1	>	>	>	>	>	>	>	>	>	>	>	1:10	1:30	<												
5722	SP5e Surface	G	1	>	>	>	>	>	>	>	>	>	>	>	1:50		<												
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<b>Relinquished By:</b> The Brunson						<b>Received By:</b> Carlos Sumner						<b>Phone Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						<b>Add'l Phone #:</b>											
<b>Date:</b> 11/26/17						<b>Date:</b> 11/26/17						<b>Fax Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						<b>Add'l Fax #:</b>											
<b>Time:</b> 5:00pm						<b>Time:</b> 5:00pm						<b>REMARKS:</b>																	
<b>Relinquished By:</b>						<b>Received By:</b>																							
<b>Date:</b> 11/24/17						<b>Date:</b> 11/24/17																							
<b>Time:</b> 11:50						<b>Time:</b> 11:50																							
<b>Delivered By:</b> (Circle One)						<b>Sample Condition</b>						<b>CHECKED BY:</b> (Initials)																	
<b>UPS - Bus - Other:</b> #75 2.00						<b>Cool Intact</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						<b>Checked By:</b> [Signature]																	

+ Cardinal cannot accept verbal change. Please fax with changes.



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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 16 of 16

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	Casey Summers
Address	PO Box 4294; Houston, TX 77210	Telephone No.	(575) 513-8289
Facility Name	Big Walt CTB	Facility Type	Battery
Surface Owner	State	Mineral Owner	API No. 30-015-33442

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	2	22S	24E					Eddy County, NM

Latitude N 32.42237° Longitude W 104.46065°

### NATURE OF RELEASE

Type of Release	Oil	Volume of Release	10 bbls	Volume Recovered	8 bbls
Source of Release	Tank spill due to battery PLC failure	Date and Hour of Occurrence	12/19/2016	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?	Mike Bratcher, Crystal Weaver- NMOCD		
By Whom?	Kathy Purvis, BBC International	Date and Hour	12/20/2016 @ 2:42 pm		
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.\*

Battery PLC failure caused a tank to spill 10 bbls of oil on location inside the berm. A vacuum truck recovered 8 bbls of oil and the PLC was restored to service.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 95' x 135' on location inside the berm. 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:	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Casey Summers	Approved by Environmental Specialist:		
Title: NM Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: <a href="mailto:Casey.Summers@oxy.com">Casey.Summers@oxy.com</a>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 1-9-2017	Phone: (575) 513-8289		

\* Attach Additional Sheets If Necessary