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## **OXY – CE LAMUNYON #1 CTB**

**1RP - 3616**

### **REMEDICATION 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 2 feet. All excavated materials will be disposed of at an NMOCD-approved disposal facility.

This plan will remove the contaminants to NMOCD acceptable levels as agreed upon.

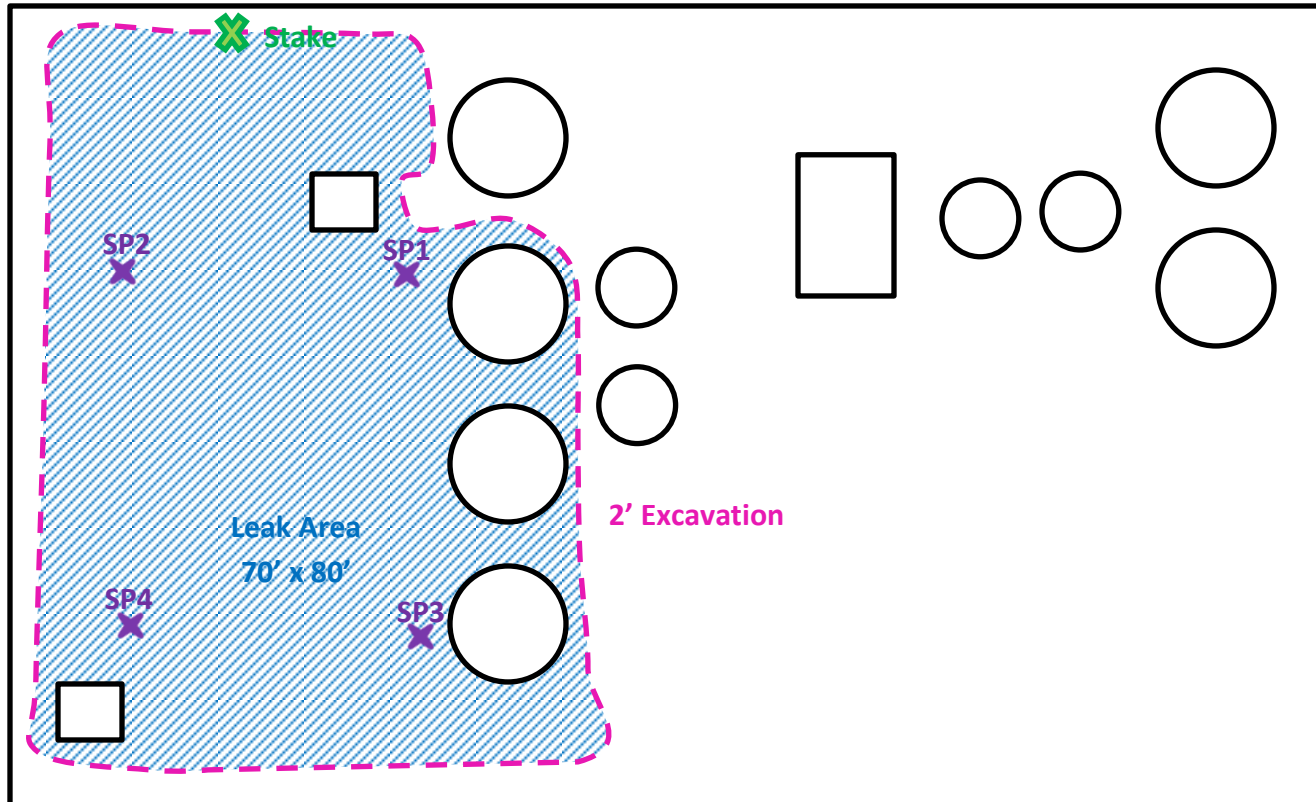
The site will then be backfilled with clean soil.

**APPROVED**

*By OCD District 1 at 11:09 am, Jul 28, 2015*



Oxy  
CE Lamunyon #1 CTB



U/L A, Section 28, T23S, R37E  
Lea County, NM  
N 32.27974° W 103.16290°  
Lease # NM LC-03018

BBC International, Inc.	
Oxy CE Lamunyon #1 CTB	
Date: 04/10/15	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2015

# Groundwater Plot

## Oxy CE Lamunyon #1 CTB

County  
Lea

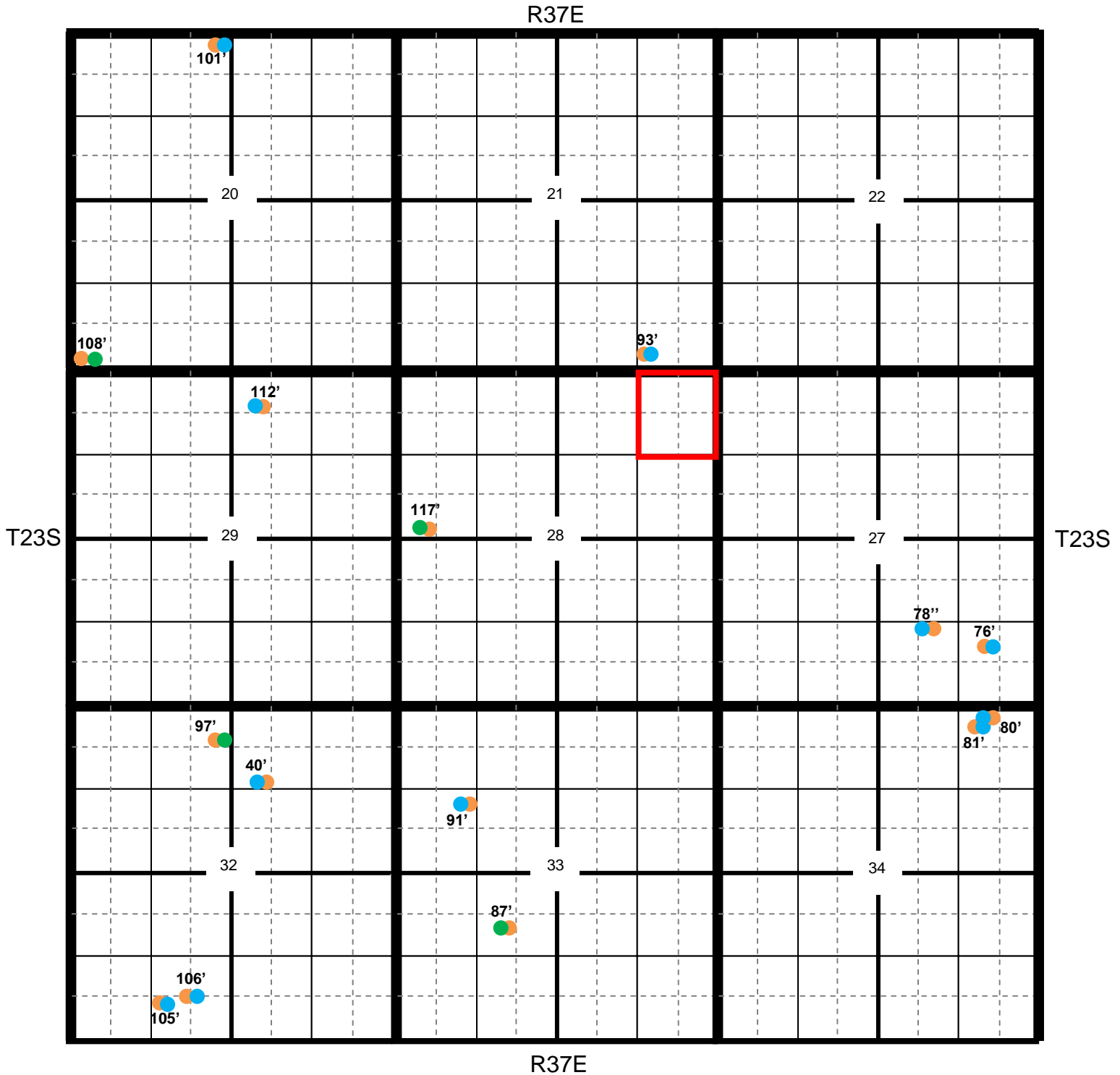
Unit Letter  
A

Section  
28

Township  
23S

Range  
37E

Trend Map 75'-100'



Location

OCD

USGS

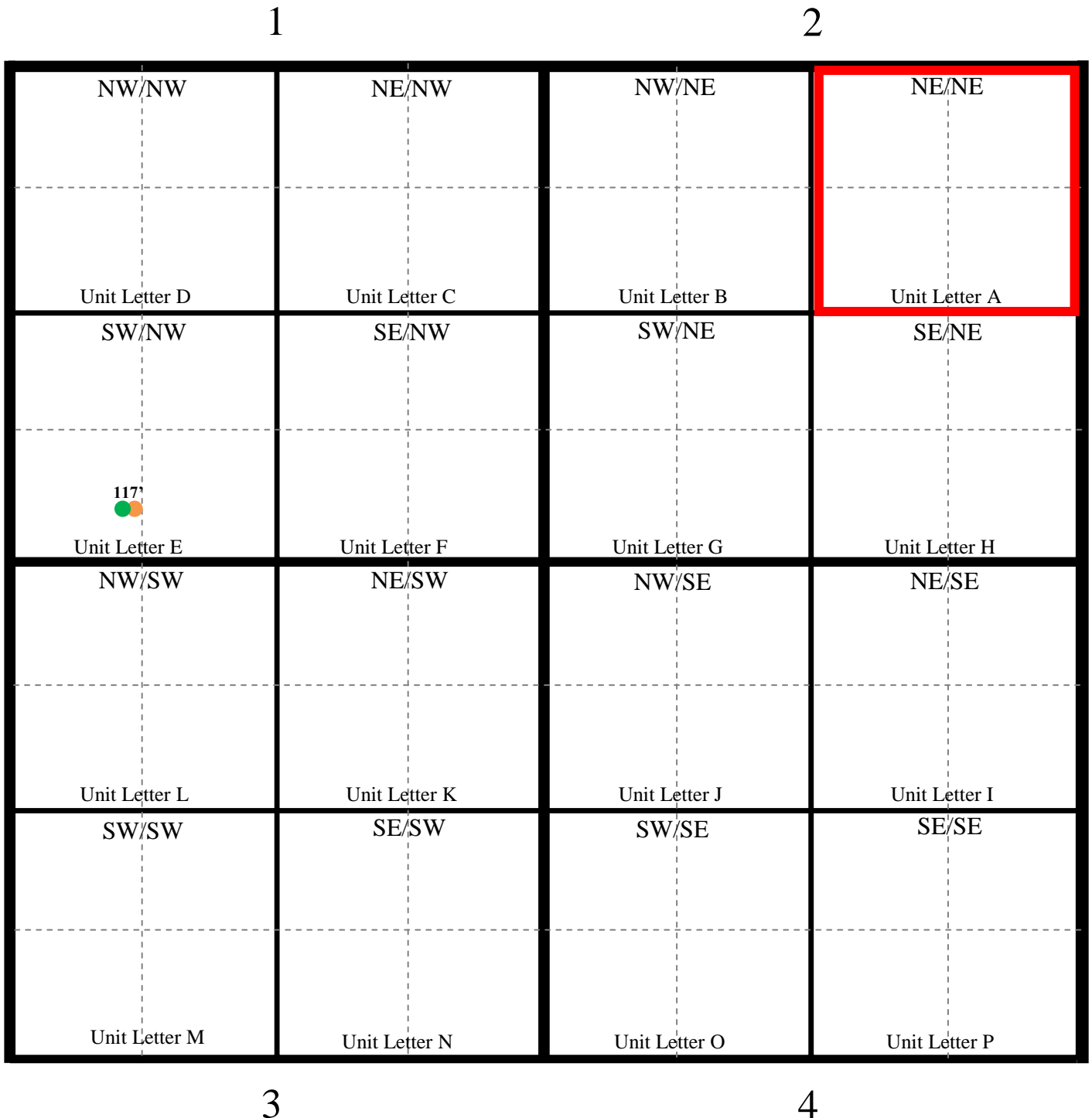
SEO

All Databases

## Oxy CE Lamunyon #1 CTB

<b>County</b>	<b>Unit Letter</b>	<b>Section</b>	<b>Township</b>	<b>Range</b>
Lea	A	28	23S	37E

Trend Map 75'-100'



**Laboratory Analytical Results Summary**  
**CE Lamunyon #1 CTB**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	5/5/15	5/5/15	5/5/15
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<16.0	<16.0	<16.0
<b>GRO</b>	TPH 8015M		<100	<50.0	<50.0
<b>DRO</b>	TPH 8015M		<b>898</b>	<b>68.3</b>	<b>203</b>

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	5/5/15	5/5/15	5/5/15
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.194</b>	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>1.87</b>	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>3.11</b>	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>5.17</b>	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<16.0	<16.0	<16.0
<b>GRO</b>	TPH 8015M		<100	<50.0	<100
<b>DRO</b>	TPH 8015M		<b>4710</b>	<b>243</b>	<b>203</b>

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 4'
Analyte	Method	Date	5/5/15	5/5/15	5/5/15
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.113</b>	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>0.334</b>	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>0.585</b>	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>1.03</b>	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>96</b>	<16.0	<16.0
<b>GRO</b>	TPH 8015M		<200	<50.0	<10.0
<b>DRO</b>	TPH 8015M		<b>6150</b>	<b>227</b>	<10.0

		Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 4'	SP4 @ 5'
Analyte	Method	Date	5/5/15	5/5/15	5/5/15	5/5/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.100	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.191</b>	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>1.57</b>	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>3.97</b>	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>5.73</b>	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<16.0	<16.0	<16.0	<16.0
<b>GRO</b>	TPH 8015M		<b>223</b>	<50.0	<100	<10.0
<b>DRO</b>	TPH 8015M		<b>15100</b>	<b>331</b>	<b>917</b>	<10.0

May 12, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CE LAMUNYON CTB

Enclosed are the results of analyses for samples received by the laboratory on 05/06/15 9:40.

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,



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: 05/06/2015  
Reported: 05/12/2015  
Project Name: CE LAMUNYON CTB  
Project Number: NONE GIVEN  
Project Location: JAL

Sampling Date: 05/05/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1' (H501169-01)**

BTX 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	05/08/2015	ND	1.84	92.1	2.00	3.61	
Toluene*	<0.050	0.050	05/08/2015	ND	1.66	82.8	2.00	3.22	
Ethylbenzene*	<0.050	0.050	05/08/2015	ND	1.58	79.1	2.00	3.86	
Total Xylenes*	<0.150	0.150	05/08/2015	ND	5.23	87.1	6.00	4.27	
Total BTX	<0.300	0.300	05/08/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 61-154

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	05/08/2015	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	05/07/2015	ND	199	99.7	200	0.783	
DRO >C10-C28	898	100	05/07/2015	ND	205	103	200	2.40	

Surrogate: 1-Chlorooctane 98.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 167 % 52.1-176

Cardinal Laboratories

\*=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: 05/06/2015  
Reported: 05/12/2015  
Project Name: CE LAMUNYON CTB  
Project Number: NONE GIVEN  
Project Location: JAL

Sampling Date: 05/05/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 2' (H501169-02)**

BTX 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	05/08/2015	ND	1.84	92.1	2.00	3.61	
Toluene*	<0.050	0.050	05/08/2015	ND	1.66	82.8	2.00	3.22	
Ethylbenzene*	<0.050	0.050	05/08/2015	ND	1.58	79.1	2.00	3.86	
Total Xylenes*	<0.150	0.150	05/08/2015	ND	5.23	87.1	6.00	4.27	
Total BTX	<0.300	0.300	05/08/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 61-154

Chloride, SM4500CI-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	05/08/2015	ND	416	104	400	3.77	

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	05/07/2015	ND	199	99.7	200	0.783	
DRO >C10-C28	68.3	50.0	05/07/2015	ND	205	103	200	2.40	

Surrogate: 1-Chlorooctane 88.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 97.6 % 52.1-176

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

Received: 05/06/2015  
Reported: 05/12/2015  
Project Name: CE LAMUNYON CTB  
Project Number: NONE GIVEN  
Project Location: JAL

Sampling Date: 05/05/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 3' (H501169-03)**

BTX 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	05/08/2015	ND	1.84	92.1	2.00	3.61	
Toluene*	<0.050	0.050	05/08/2015	ND	1.66	82.8	2.00	3.22	
Ethylbenzene*	<0.050	0.050	05/08/2015	ND	1.58	79.1	2.00	3.86	
Total Xylenes*	<0.150	0.150	05/08/2015	ND	5.23	87.1	6.00	4.27	
Total BTX	<0.300	0.300	05/08/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 61-154

Chloride, SM4500CI-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	05/08/2015	ND	416	104	400	3.77	

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	05/07/2015	ND	199	99.7	200	0.783	
DRO >C10-C28	203	50.0	05/07/2015	ND	205	103	200	2.40	

Surrogate: 1-Chlorooctane 88.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 105 % 52.1-176

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

Received: 05/06/2015  
Reported: 05/12/2015  
Project Name: CE LAMUNYON CTB  
Project Number: NONE GIVEN  
Project Location: JAL

Sampling Date: 05/05/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1' (H501169-04)**

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	05/08/2015	ND	1.84	92.1	2.00	3.61	
Toluene*	0.194	0.050	05/08/2015	ND	1.66	82.8	2.00	3.22	
Ethylbenzene*	1.87	0.050	05/08/2015	ND	1.58	79.1	2.00	3.86	
Total Xylenes*	3.11	0.150	05/08/2015	ND	5.23	87.1	6.00	4.27	
Total BTEX	5.17	0.300	05/08/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 61-154

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	05/08/2015	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	05/07/2015	ND	199	99.7	200	0.783	
DRO >C10-C28	4710	100	05/07/2015	ND	205	103	200	2.40	

Surrogate: 1-Chlorooctane 91.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 294 % 52.1-176

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

Received: 05/06/2015  
Reported: 05/12/2015  
Project Name: CE LAMUNYON CTB  
Project Number: NONE GIVEN  
Project Location: JAL

Sampling Date: 05/05/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 3' (H501169-05)**

BTX 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	05/08/2015	ND	1.84	92.1	2.00	3.61	
Toluene*	<0.050	0.050	05/08/2015	ND	1.66	82.8	2.00	3.22	
Ethylbenzene*	<0.050	0.050	05/08/2015	ND	1.58	79.1	2.00	3.86	
Total Xylenes*	<0.150	0.150	05/08/2015	ND	5.23	87.1	6.00	4.27	
Total BTX	<0.300	0.300	05/08/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 61-154

Chloride, SM4500CI-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	05/08/2015	ND	416	104	400	3.77	

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	05/07/2015	ND	199	99.7	200	0.783	
DRO >C10-C28	243	50.0	05/07/2015	ND	205	103	200	2.40	

Surrogate: 1-Chlorooctane 95.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 97.3 % 52.1-176

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

Received: 05/06/2015  
Reported: 05/12/2015  
Project Name: CE LAMUNYON CTB  
Project Number: NONE GIVEN  
Project Location: JAL

Sampling Date: 05/05/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 4' (H501169-06)**

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	05/08/2015	ND	1.84	92.1	2.00	3.61	
Toluene*	<0.050	0.050	05/08/2015	ND	1.66	82.8	2.00	3.22	
Ethylbenzene*	<0.050	0.050	05/08/2015	ND	1.58	79.1	2.00	3.86	
Total Xylenes*	<0.150	0.150	05/08/2015	ND	5.23	87.1	6.00	4.27	
Total BTEX	<0.300	0.300	05/08/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 61-154

Chloride, SM4500CI-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	05/08/2015	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	05/07/2015	ND	199	99.7	200	0.783	
DRO >C10-C28	203	100	05/07/2015	ND	205	103	200	2.40	

Surrogate: 1-Chlorooctane 91.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 112 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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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: 05/06/2015  
Reported: 05/12/2015  
Project Name: CE LAMUNYON CTB  
Project Number: NONE GIVEN  
Project Location: JAL

Sampling Date: 05/05/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1' (H501169-07)**

BTX 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	05/08/2015	ND	1.84	92.1	2.00	3.61	
Toluene*	0.113	0.050	05/08/2015	ND	1.66	82.8	2.00	3.22	
Ethylbenzene*	0.334	0.050	05/08/2015	ND	1.58	79.1	2.00	3.86	
Total Xylenes*	0.585	0.150	05/08/2015	ND	5.23	87.1	6.00	4.27	
Total BTX	1.03	0.300	05/08/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/08/2015	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: CK						S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	05/07/2015	ND	199	99.7	200	0.783	
DRO >C10-C28	<b>6150</b>	200	05/07/2015	ND	205	103	200	2.40	

Surrogate: 1-Chlorooctane 81.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 309 % 52.1-176

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: 05/06/2015  
Reported: 05/12/2015  
Project Name: CE LAMUNYON CTB  
Project Number: NONE GIVEN  
Project Location: JAL

Sampling Date: 05/05/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 3' (H501169-08)**

BTX 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	05/08/2015	ND	1.84	92.1	2.00	3.61	
Toluene*	<0.050	0.050	05/08/2015	ND	1.66	82.8	2.00	3.22	
Ethylbenzene*	<0.050	0.050	05/08/2015	ND	1.58	79.1	2.00	3.86	
Total Xylenes*	<0.150	0.150	05/08/2015	ND	5.23	87.1	6.00	4.27	
Total BTX	<0.300	0.300	05/08/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 61-154

Chloride, SM4500CI-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	05/08/2015	ND	416	104	400	3.77	

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	05/07/2015	ND	199	99.7	200	0.783	
DRO >C10-C28	227	50.0	05/07/2015	ND	205	103	200	2.40	

Surrogate: 1-Chlorooctane 93.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 102 % 52.1-176

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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: 05/06/2015  
Reported: 05/12/2015  
Project Name: CE LAMUNYON CTB  
Project Number: NONE GIVEN  
Project Location: JAL

Sampling Date: 05/05/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 4' (H501169-09)**

BTX 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	05/08/2015	ND	1.84	92.1	2.00	3.61	
Toluene*	<0.050	0.050	05/08/2015	ND	1.66	82.8	2.00	3.22	
Ethylbenzene*	<0.050	0.050	05/08/2015	ND	1.58	79.1	2.00	3.86	
Total Xylenes*	<0.150	0.150	05/08/2015	ND	5.23	87.1	6.00	4.27	
Total BTX	<0.300	0.300	05/08/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 61-154

Chloride, SM4500CI-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	05/08/2015	ND	416	104	400	0.00	

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	05/07/2015	ND	199	99.7	200	0.783	
DRO >C10-C28	<10.0	10.0	05/07/2015	ND	205	103	200	2.40	

Surrogate: 1-Chlorooctane 97.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 94.7 % 52.1-176

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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: 05/06/2015  
Reported: 05/12/2015  
Project Name: CE LAMUNYON CTB  
Project Number: NONE GIVEN  
Project Location: JAL

Sampling Date: 05/05/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 1' (H501169-10)**

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	05/08/2015	ND	1.84	92.1	2.00	3.61	
Toluene*	0.191	0.100	05/08/2015	ND	1.66	82.8	2.00	3.22	
Ethylbenzene*	1.57	0.100	05/08/2015	ND	1.58	79.1	2.00	3.86	
Total Xylenes*	3.97	0.300	05/08/2015	ND	5.23	87.1	6.00	4.27	
Total BTX	5.73	0.600	05/08/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 61-154

Chloride, SM4500CI-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	05/08/2015	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	223	100	05/07/2015	ND	199	99.7	200	0.783		
DRO >C10-C28	15100	100	05/07/2015	ND	205	103	200	2.40		

Surrogate: 1-Chlorooctane 139 % 47.2-157

Surrogate: 1-Chlorooctadecane 321 % 52.1-176

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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: 05/06/2015  
Reported: 05/12/2015  
Project Name: CE LAMUNYON CTB  
Project Number: NONE GIVEN  
Project Location: JAL

Sampling Date: 05/05/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 3' (H501169-11)**

BTX 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	05/08/2015	ND	1.84	92.1	2.00	3.61	
Toluene*	<0.050	0.050	05/08/2015	ND	1.66	82.8	2.00	3.22	
Ethylbenzene*	<0.050	0.050	05/08/2015	ND	1.58	79.1	2.00	3.86	
Total Xylenes*	<0.150	0.150	05/08/2015	ND	5.23	87.1	6.00	4.27	
Total BTX	<0.300	0.300	05/08/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 61-154

Chloride, SM4500CI-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	05/08/2015	ND	416	104	400	0.00	

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	05/07/2015	ND	199	99.7	200	0.783	
DRO >C10-C28	331	50.0	05/07/2015	ND	205	103	200	2.40	

Surrogate: 1-Chlorooctane 93.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 117 % 52.1-176

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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: 05/06/2015  
Reported: 05/12/2015  
Project Name: CE LAMUNYON CTB  
Project Number: NONE GIVEN  
Project Location: JAL

Sampling Date: 05/05/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 4' (H501169-12)**

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	05/08/2015	ND	1.84	92.1	2.00	3.61	
Toluene*	<0.050	0.050	05/08/2015	ND	1.66	82.8	2.00	3.22	
Ethylbenzene*	<0.050	0.050	05/08/2015	ND	1.58	79.1	2.00	3.86	
Total Xylenes*	<0.150	0.150	05/08/2015	ND	5.23	87.1	6.00	4.27	
Total BTEX	<0.300	0.300	05/08/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 61-154

Chloride, SM4500CI-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	05/08/2015	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	05/07/2015	ND	199	99.7	200	0.783	
DRO >C10-C28	917	100	05/07/2015	ND	205	103	200	2.40	

Surrogate: 1-Chlorooctane 87.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 157 % 52.1-176

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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: 05/06/2015  
Reported: 05/12/2015  
Project Name: CE LAMUNYON CTB  
Project Number: NONE GIVEN  
Project Location: JAL

Sampling Date: 05/05/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 5' (H501169-13)**

BTX 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	05/08/2015	ND	1.84	92.1	2.00	3.61	
Toluene*	<0.050	0.050	05/08/2015	ND	1.66	82.8	2.00	3.22	
Ethylbenzene*	<0.050	0.050	05/08/2015	ND	1.58	79.1	2.00	3.86	
Total Xylenes*	<0.150	0.150	05/08/2015	ND	5.23	87.1	6.00	4.27	
Total BTX	<0.300	0.300	05/08/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 61-154

Chloride, SM4500CI-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	05/08/2015	ND	416	104	400	0.00	

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	05/07/2015	ND	199	99.7	200	0.783	
DRO >C10-C28	<10.0	10.0	05/07/2015	ND	205	103	200	2.40	

Surrogate: 1-Chlorooctane 97.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 93.9 % 52.1-176

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\*=Accredited Analyte

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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



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

#54





**ARDINAL 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.		<b>BILL TO</b>		ANALYSIS REQUEST																																							
Project Manager: Cliff Brunson		P.O. #:																																									
Address: P.O. Box 805		Company:																																									
City: Hobbs		Attn:																																									
State: NM Zip: 88241		Address:																																									
Phone #: 575-397-6388 Fax #: 575-397-0397		City:																																									
Project #:		State:																																									
Project Name: <i>CE Laguna #1 CTB</i>		Zip:																																									
Project Location: <i>V21</i>		Phone #:																																									
Sample Name: <i>Left Ornelas</i>		Fax #:																																									
FOR LAB USE ONLY		PRESERV		SAMPLING																																							
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME																									
H501169		SP 403		G 1		1		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		X		5-5		315		X		X		X													
11		12		13		13		X		X		X		X		X		X		X		X		X		X		X		X													
12		13		13		13		X		X		X		X		X		X		X		X		X		X		X		X													
13		13		13		13		X		X		X		X		X		X		X		X		X		X		X		X													
13		13		13		13		X		X		X		X		X		X		X		X		X		X		X		X													
13		13		13		13		X		X		X		X		X		X		X		X		X		X		X		X													
13		13		13		13		X		X		X		X		X		X		X		X		X		X		X		X													
13		13		13		13		X		X		X		X		X		X		X		X		X		X		X		X													
13		13		13		13		X		X		X		X		X		X		X		X		X		X		X		X													
13		13		13		13		X		X		X		X		X		X		X		X		X		X		X		X													
13		13		13		13		X		X		X		X		X		X		X		X		X		X		X		X													
13		13		13		13		X		X		X		X		X		X		X		X		X		X		X		X													
13		13		13		13		X		X		X		X		X		X		X		X		X		X		X		X													
13		13		13		13		X		X		X		X		X		X		X		X		X		X		X		X													
13		13		13		13		X		X		X		X		X		X		X		X		X		X		X		X													
13		13		13		13		X		X		X		X		X		X		X		X		X		X		X		X													
13		13		13		13		X		X		X		X		X		X		X		X		X		X		X		X													
13		13		13		13		X		X		X		X		X		X		X		X		X		X		X		X													
13		13		13		13		X		X		X		X		X		X		X		X		X		X		X		X													
13		13		13		13		X		X		X		X		X		X		X		X		X		X		X		X													
13		13		13		13		X		X		X		X		X		X		X		X		X		X		X		X													
13		13		13		13		X		X		X		X		X		X		X		X		X		X		X		X													
13		13		13		13		X		X		X		X		X		X		X		X		X		X		X		X													
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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	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	CE Lamunyon #1 CTB	Facility Type	Battery
Surface Owner	State/Oxy	Mineral Owner	API No. Lease# NM LC-03018

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	28	23S	37E					Lea County, NM

Latitude N 32.27974° Longitude W 103.16290°

### NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	25 bbls oil, 5 bbls produced water	Volume Recovered	8 bbls
Source of Release	Stress/fatigue split the fire tube gasket on the south middle test separator	Date and Hour of Occurrence	03/25/2015	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?	Tomas Oberding, NMOCD		
By Whom?	Kathy Purvis, BBC International	Date and Hour	03/25/2015 @ 4:10 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.\*

Stress/ fatigue caused a fire tube gasket on the south middle test separator to leak 25 bbls of oil and 5 bbls of produced water onto the ground. The gasket was replaced and 8 total bbls of fluid were recovered via vacuum truck.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 70' x 80' on location inside the facility. Remediation will be completed in accordance with a remediation plan approved by NMOCD.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <b>Chris Jones</b> <small>Digitally signed by Chris Jones DN: cn=Chris Jones, o, ou, email=ckjones888@yahoo.com, c=US Date: 2015.04.21 11:27:12 -05'00'</small>	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Christopher Jones	Approved by Environmental Specialist:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Christopher_Jones@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date:	Phone: (575) 628-4121		

\* Attach Additional Sheets If Necessary