



## **OXY – CEDAR CANYON 16 STATE #8H**

### **REMEDIATION PLAN**

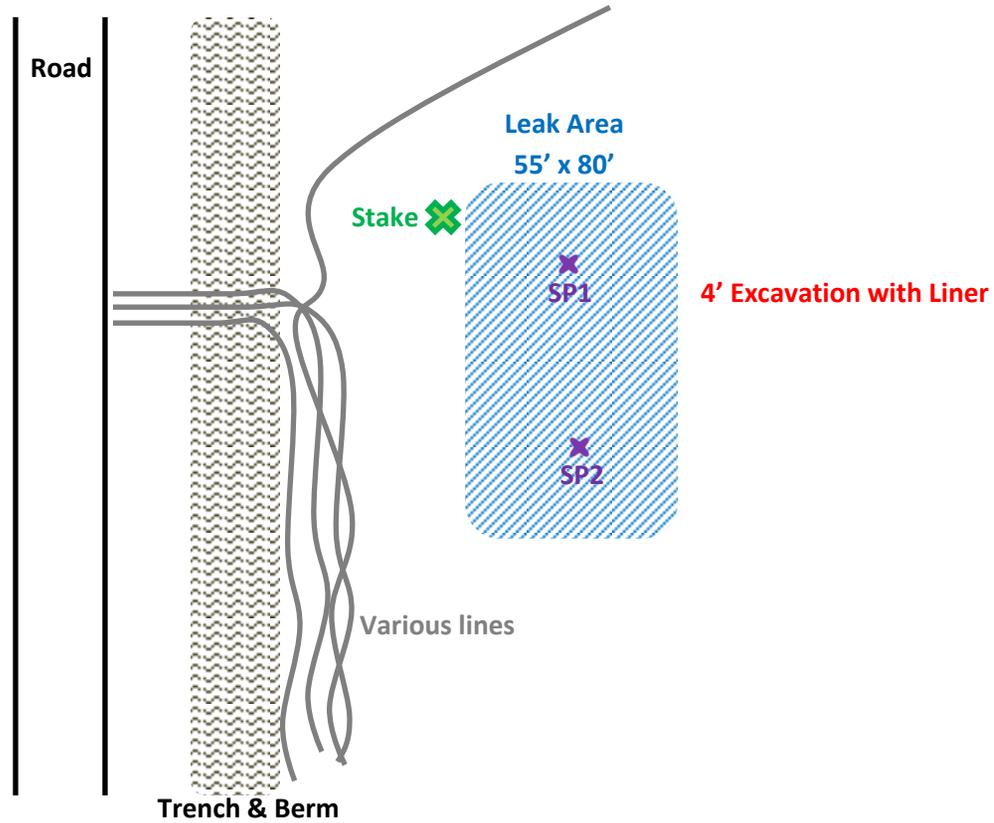
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OXY will excavate the spill area as depicted on the following site diagram. The entire spill area will be excavated to a depth of 4 feet, then a 20 mil liner will be placed in the bottom of the excavation. The entire site will be backfilled with clean soil.

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



Oxy  
Cedar Canyon 16 State #8H



U/L A, Section 16, T24S, R29E

Eddy County, NM

N 32.22223° W 103.98106°

API# 30-015-41596

**BBC International, Inc.**

**Oxy**  
**Cedar Canyon 16 State #8H**

Date: 12/04/2015	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2015

# Groundwater Plot

## Oxy Cedar Canyon 16 State #8H

County  
Eddy

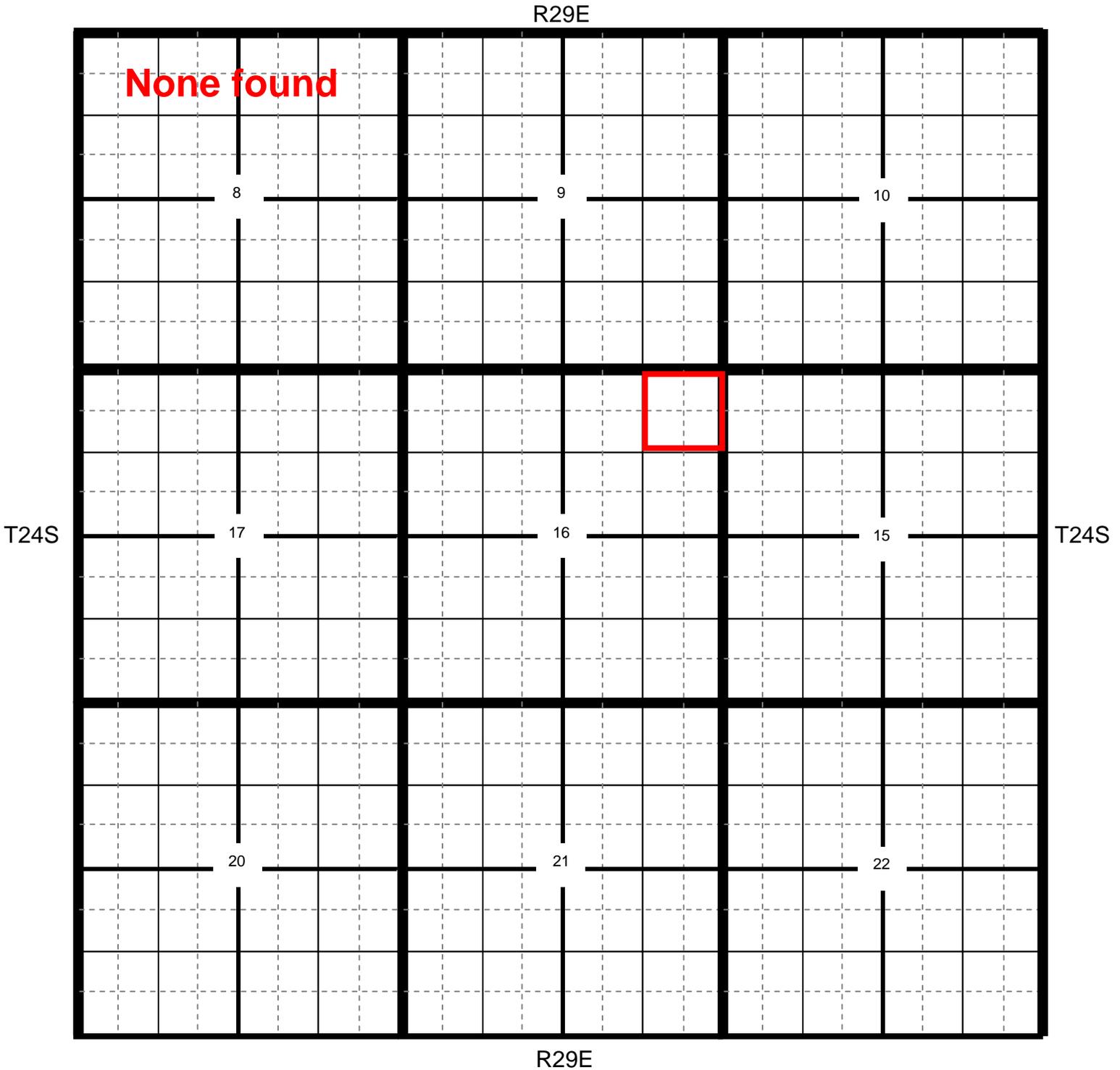
Unit Letter  
A

Section  
16

Township  
24S

Range  
29E

Trend Map 75'-100'



📍 Location

● OCD

● USGS

● SEO

● All Databases

## Oxy Cedar Canyon 16 State #8H

County Eddy      Unit Letter A      Section 16      Township 24S      Range 29E

Trend Map 75'-100'

1

2

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

3

4

**Laboratory Analytical Results Summary  
CEDAR CANYON 16 STATE #8H**

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 7'	SP1 @ 9'	SP1 @ 11'	SP1 @ 13'
Analyte	Method	Date	1/14/16	1/14/16	1/14/16	1/14/16	1/14/16	1/14/16	1/14/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>5920</b>	<b>4960</b>	<b>832</b>	<b>704</b>	<b>1760</b>	<b>448</b>	<b>96</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'	SP2 @ 7'	SP2 @ 9'	SP2 @ 11'	SP2 @ 13'
Analyte	Method	Date	1/14/16	1/14/16	1/14/16	1/14/16	1/14/16	1/14/16	1/14/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>10100</b>	<b>6660</b>	<b>4320</b>	<b>912</b>	<b>1700</b>	<b>480</b>	<b>32</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>11</b>	<10.0	<b>23.3</b>	<10.0	<10.0	<10.0	<10.0



January 21, 2016

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

RE: CEDAR CANYON 16 STATE #8H

Enclosed are the results of analyses for samples received by the laboratory on 01/18/16 10:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 1 @ 1' (H600092-01)**

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	01/18/2016	ND	1.70	84.8	2.00	8.33	
Toluene*	<0.050	0.050	01/18/2016	ND	1.69	84.7	2.00	7.32	
Ethylbenzene*	<0.050	0.050	01/18/2016	ND	1.55	77.6	2.00	7.40	
Total Xylenes*	<0.150	0.150	01/18/2016	ND	4.86	81.0	6.00	6.60	
Total BTEX	<0.300	0.300	01/18/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 100 % 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>5920</b>	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/18/2016	ND	181	90.3	200	5.02	
DRO >C10-C28	<10.0	10.0	01/18/2016	ND	177	88.6	200	5.42	

*Surrogate: 1-Chlorooctane 86.0 % 35-147*
*Surrogate: 1-Chlorooctadecane 90.9 % 28-171*

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:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 1 @ 3' (H600092-02)**

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	01/18/2016	ND	1.70	84.8	2.00	8.33	
Toluene*	<0.050	0.050	01/18/2016	ND	1.69	84.7	2.00	7.32	
Ethylbenzene*	<0.050	0.050	01/18/2016	ND	1.55	77.6	2.00	7.40	
Total Xylenes*	<0.150	0.150	01/18/2016	ND	4.86	81.0	6.00	6.60	
Total BTEX	<0.300	0.300	01/18/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 100 % 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>4960</b>	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/18/2016	ND	181	90.3	200	5.02	
DRO >C10-C28	<10.0	10.0	01/18/2016	ND	177	88.6	200	5.42	

*Surrogate: 1-Chlorooctane 92.9 % 35-147*
*Surrogate: 1-Chlorooctadecane 90.3 % 28-171*

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\*=Accredited Analyte

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

Received:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 1 @ 5' (H600092-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2016	ND	1.70	84.8	2.00	8.33	
Toluene*	<0.050	0.050	01/18/2016	ND	1.69	84.7	2.00	7.32	
Ethylbenzene*	<0.050	0.050	01/18/2016	ND	1.55	77.6	2.00	7.40	
Total Xylenes*	<0.150	0.150	01/18/2016	ND	4.86	81.0	6.00	6.60	
Total BTEX	<0.300	0.300	01/18/2016	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
<b>Chloride</b>	<b>832</b>	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/18/2016	ND	181	90.3	200	5.02	
DRO >C10-C28	<10.0	10.0	01/18/2016	ND	177	88.6	200	5.42	

*Surrogate: 1-Chlorooctane 92.0 % 35-147*
*Surrogate: 1-Chlorooctadecane 95.6 % 28-171*

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

Received:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 1 @ 7' (H600092-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2016	ND	1.70	84.8	2.00	8.33	
Toluene*	<0.050	0.050	01/18/2016	ND	1.69	84.7	2.00	7.32	
Ethylbenzene*	<0.050	0.050	01/18/2016	ND	1.55	77.6	2.00	7.40	
Total Xylenes*	<0.150	0.150	01/18/2016	ND	4.86	81.0	6.00	6.60	
Total BTEX	<0.300	0.300	01/18/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 101 % 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>704</b>	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/18/2016	ND	181	90.3	200	5.02	
DRO >C10-C28	<10.0	10.0	01/18/2016	ND	177	88.6	200	5.42	

*Surrogate: 1-Chlorooctane 87.6 % 35-147*
*Surrogate: 1-Chlorooctadecane 88.0 % 28-171*

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 Fax To: (575) 397-0397

Received:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 1 @ 9' (H600092-05)**

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	01/19/2016	ND	1.70	84.8	2.00	8.33	
Toluene*	<0.050	0.050	01/19/2016	ND	1.69	84.7	2.00	7.32	
Ethylbenzene*	<0.050	0.050	01/19/2016	ND	1.55	77.6	2.00	7.40	
Total Xylenes*	<0.150	0.150	01/19/2016	ND	4.86	81.0	6.00	6.60	
Total BTEX	<0.300	0.300	01/19/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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>1760</b>	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/18/2016	ND	181	90.3	200	5.02	
DRO >C10-C28	<10.0	10.0	01/18/2016	ND	177	88.6	200	5.42	

Surrogate: 1-Chlorooctane 86.4 % 35-147

Surrogate: 1-Chlorooctadecane 88.2 % 28-171

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\*=Accredited Analyte

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 Fax To: (575) 397-0397

Received:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 1 @ 11' (H600092-06)**

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	01/20/2016	ND	1.77	88.3	2.00	1.48	
Toluene*	<0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520	
Ethylbenzene*	<0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16	
Total Xylenes*	<0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16	
Total BTEX	<0.300	0.300	01/20/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 100 % 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>448</b>	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/18/2016	ND	181	90.3	200	5.02	
DRO >C10-C28	<10.0	10.0	01/18/2016	ND	177	88.6	200	5.42	

*Surrogate: 1-Chlorooctane 82.5 % 35-147*
*Surrogate: 1-Chlorooctadecane 86.6 % 28-171*

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

Received:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 1 @ 13' (H600092-07)**

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	01/20/2016	ND	1.77	88.3	2.00	1.48	
Toluene*	<0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520	
Ethylbenzene*	<0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16	
Total Xylenes*	<0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16	
Total BTEX	<0.300	0.300	01/20/2016	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	96.0	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/18/2016	ND	181	90.3	200	5.02	
DRO >C10-C28	<10.0	10.0	01/18/2016	ND	177	88.6	200	5.42	

Surrogate: 1-Chlorooctane 87.3 % 35-147

Surrogate: 1-Chlorooctadecane 90.2 % 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:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 2 @ 1' (H600092-08)**

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	01/20/2016	ND	1.77	88.3	2.00	1.48	
Toluene*	<0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520	
Ethylbenzene*	<0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16	
Total Xylenes*	<0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16	
Total BTEX	<0.300	0.300	01/20/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 101 % 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>10100</b>	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/18/2016	ND	181	90.3	200	5.02	
<b>DRO &gt;C10-C28</b>	<b>11.0</b>	10.0	01/18/2016	ND	177	88.6	200	5.42	

*Surrogate: 1-Chlorooctane 86.0 % 35-147*
*Surrogate: 1-Chlorooctadecane 89.5 % 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:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 2 @ 3' (H600092-09)**

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	01/20/2016	ND	1.77	88.3	2.00	1.48	
Toluene*	<0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520	
Ethylbenzene*	<0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16	
Total Xylenes*	<0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16	
Total BTEX	<0.300	0.300	01/20/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 101 % 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>6660</b>	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/18/2016	ND	181	90.3	200	5.02	
DRO >C10-C28	<10.0	10.0	01/18/2016	ND	177	88.6	200	5.42	

*Surrogate: 1-Chlorooctane 81.9 % 35-147*
*Surrogate: 1-Chlorooctadecane 85.4 % 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:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 2 @ 5' (H600092-10)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2016	ND	1.77	88.3	2.00	1.48	
Toluene*	<0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520	
Ethylbenzene*	<0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16	
Total Xylenes*	<0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16	
Total BTEX	<0.300	0.300	01/20/2016	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
<b>Chloride</b>	<b>4320</b>	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/18/2016	ND	181	90.3	200	5.02	
<b>DRO &gt;C10-C28</b>	<b>23.3</b>	10.0	01/18/2016	ND	177	88.6	200	5.42	

*Surrogate: 1-Chlorooctane 87.3 % 35-147*
*Surrogate: 1-Chlorooctadecane 88.1 % 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:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 2 @ 7' (H600092-11)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2016	ND	1.77	88.3	2.00	1.48	
Toluene*	<0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520	
Ethylbenzene*	<0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16	
Total Xylenes*	<0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16	
Total BTEX	<0.300	0.300	01/20/2016	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
<b>Chloride</b>	<b>912</b>	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/18/2016	ND	181	90.3	200	5.02	
DRO >C10-C28	<10.0	10.0	01/18/2016	ND	177	88.6	200	5.42	

*Surrogate: 1-Chlorooctane 83.7 % 35-147*
*Surrogate: 1-Chlorooctadecane 84.1 % 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:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 2 @ 9' (H600092-12)**

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	01/20/2016	ND	1.77	88.3	2.00	1.48	
Toluene*	<0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520	
Ethylbenzene*	<0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16	
Total Xylenes*	<0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16	
Total BTEX	<0.300	0.300	01/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	1700	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/18/2016	ND	181	90.3	200	5.02	
DRO >C10-C28	<10.0	10.0	01/18/2016	ND	177	88.6	200	5.42	

Surrogate: 1-Chlorooctane 79.4 % 35-147

Surrogate: 1-Chlorooctadecane 83.7 % 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:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 2 @ 11' (H600092-13)**

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	01/20/2016	ND	1.77	88.3	2.00	1.48	
Toluene*	<0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520	
Ethylbenzene*	<0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16	
Total Xylenes*	<0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16	
Total BTEX	<0.300	0.300	01/20/2016	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
<b>Chloride</b>	<b>480</b>	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/19/2016	ND	194	96.9	200	3.69	
DRO >C10-C28	<10.0	10.0	01/19/2016	ND	179	89.5	200	4.37	

*Surrogate: 1-Chlorooctane 76.7 % 35-147*
*Surrogate: 1-Chlorooctadecane 80.1 % 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:	01/18/2016	Sampling Date:	01/14/2016
Reported:	01/21/2016	Sampling Type:	Soil
Project Name:	CEDAR CANYON 16 STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 2 @ 13' (H600092-14)**

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	01/20/2016	ND	1.77	88.3	2.00	1.48	
Toluene*	<0.050	0.050	01/20/2016	ND	1.75	87.7	2.00	0.520	
Ethylbenzene*	<0.050	0.050	01/20/2016	ND	1.61	80.4	2.00	1.16	
Total Xylenes*	<0.150	0.150	01/20/2016	ND	4.99	83.2	6.00	1.16	
Total BTEX	<0.300	0.300	01/20/2016	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 101 % 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>32.0</b>	16.0	01/18/2016	ND	432	108	400	3.77	

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	01/19/2016	ND	194	96.9	200	3.69	
DRO >C10-C28	<10.0	10.0	01/19/2016	ND	179	89.5	200	4.37	

*Surrogate: 1-Chlorooctane 78.0 % 35-147*
*Surrogate: 1-Chlorooctadecane 82.8 % 28-171*

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report



---

Celey D. Keene, Lab Director/Quality Manager



**ARDINAL LABORATORIES**

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

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: BBC International, Inc. P.O. #:  
Project Manager: Cliff Brunson Company:  
Address: P.O. Box 805 State: NM zip: 88241 Attn:  
City: Hobbs Address:  
Phone #: 575-397-6388 Fax #: 575-397-0397 City:  
Project #: Project Owner: OXY State: Zip:  
Project Name: Cedar Canyon 16 State #84 Phone #:  
Project Location: M2122 Fax #:

Sampler Name: Jeff Brunson  
FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	SAMPLING	DATE	TIME	TPH	BTEX	CI-
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
H1000089	SP101	G	1	X	X	X	X	X	X	X	1-14	015	X	X	X	
	03	G	1	X	X	X	X	X	X	X		059	X	X	X	
	05	G	1	X	X	X	X	X	X	X		030	X	X	X	
	07	G	1	X	X	X	X	X	X	X		1111	X	X	X	
	09	G	1	X	X	X	X	X	X	X		1128	X	X	X	
	11	G	1	X	X	X	X	X	X	X		1138	X	X	X	
	13	G	1	X	X	X	X	X	X	X		1149	X	X	X	
	201	G	1	X	X	X	X	X	X	X		1225	X	X	X	
	05	G	1	X	X	X	X	X	X	X		200	X	X	X	
	05	G	1	X	X	X	X	X	X	X		215	X	X	X	

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Relinquished By: *[Signature]* Date: 1-10-16 Received By: *[Signature]* Date: 1-10-16  
 Relinquished By: *[Signature]* Time: 10:20 AM Received By: *[Signature]* Time: 10:20 AM  
 Delivered By: (Circle One)  UPS  Bus  Other: *2:32*  
 Sample Condition:  Cool  Intact  Yes  No  
 CHECKED BY: *[Signature]*

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 #54



District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised August 8, 2011

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

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company	Oxy Permian Ltd.	Contact	Dusty Wilson
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	432-685-5771
Facility Name	Cedar Canyon 16 State #8H	Facility Type	Well
Surface Owner	State	Mineral Owner	API No. 30-015-41596

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	16	24S	29E					Eddy

Latitude N 32.22223° Longitude N 103.98106°

**NATURE OF RELEASE**

Type of Release	Oil and Produced water	Volume of Release	5 bbls oil, 40 bbls produced water	Volume Recovered	0 bbls
Source of Release	Discharge fire on suction line	Date and Hour of Occurrence	11/11/15	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?	Heather Patterson, Mike Bratcher		
By Whom?	Kathy Purvis @ BBC International	Date and Hour	11/16/15 @ 11:53 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

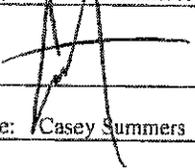
Describe Cause of Problem and Remedial Action Taken.\*

A static discharge fire on the gas compressor suction line caused 5 bbls of oil and 40 bbls of produced water to leak onto the ground. No fluids were recovered and the line was repaired/replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 55' x 80' off location near the trench. 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.

Signature:		<b>OIL CONSERVATION DIVISION</b>	
Printed Name:	Casey Summers	Approved by Environmental Specialist:	
Title:	NM Environmental Advisor	Approval Date:	Expiration Date:
E-mail Address:	: casey_summers@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date:	12-9-15	Phone:	(575)513-8289

\* Attach Additional Sheets If Necessary