



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

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## **Oxy – Sundance 8 Federal #1 CTB (12/11/2016)**

### **REMEDIATION PLAN, RP # 2RP-4054**

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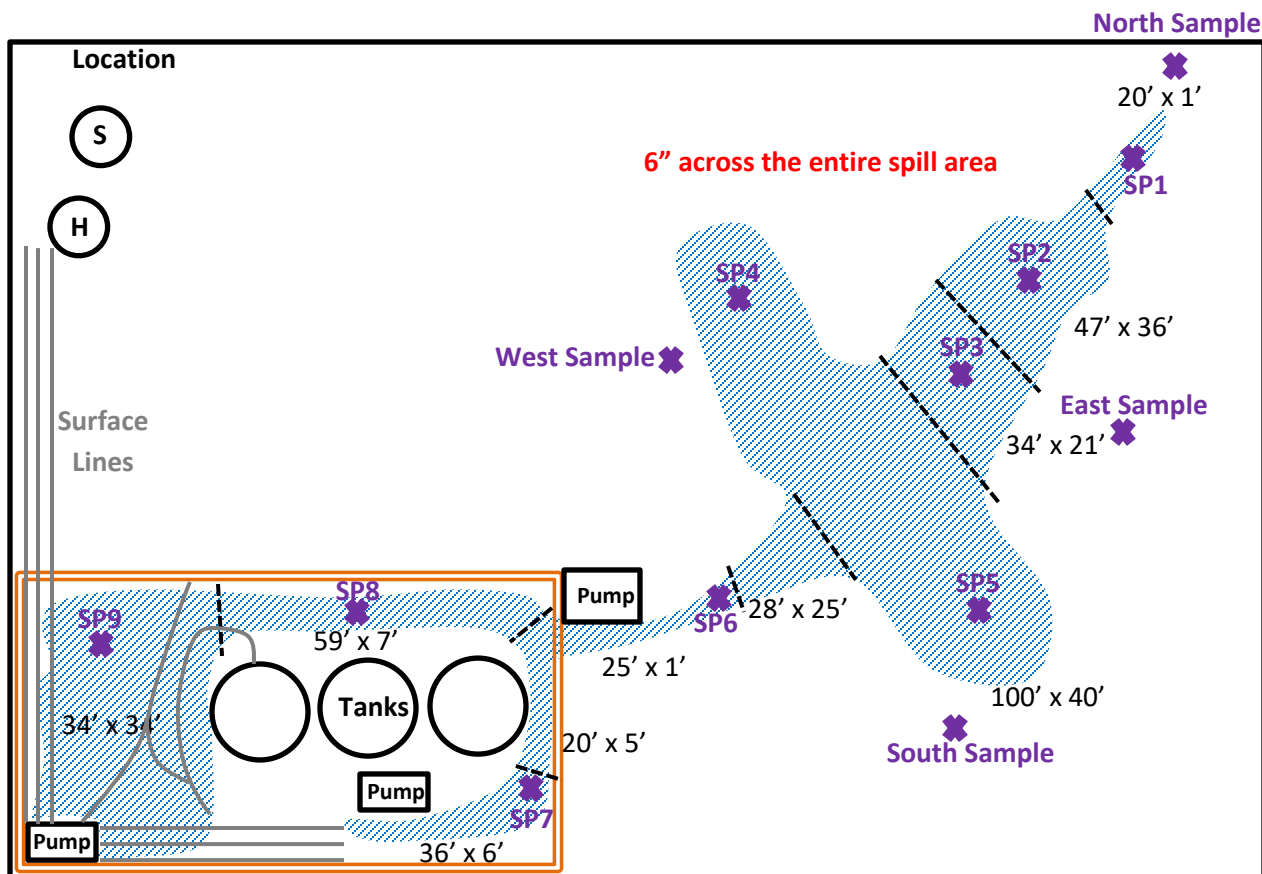
Oxy will excavate the spill area as depicted on the following site diagram. The entire leak area will be excavated to a depth of 6 inches. The entire site will then be backfilled with clean soil.

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



Oxy

Sundance 8 Federal #1 CTB (12/11/16)



U/L C, Section 8, T24S, R31E

Eddy County, NM

N 32.23798° W 103.80333°

API# 30-015-27228

BBC International, Inc.

Oxy

Sundance 8 Federal #1 CTB

Date: 12/28/2016

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2016



# Groundwater Plot

## Oxy Sundance 8 Federal #1 CTB

County  
Eddy

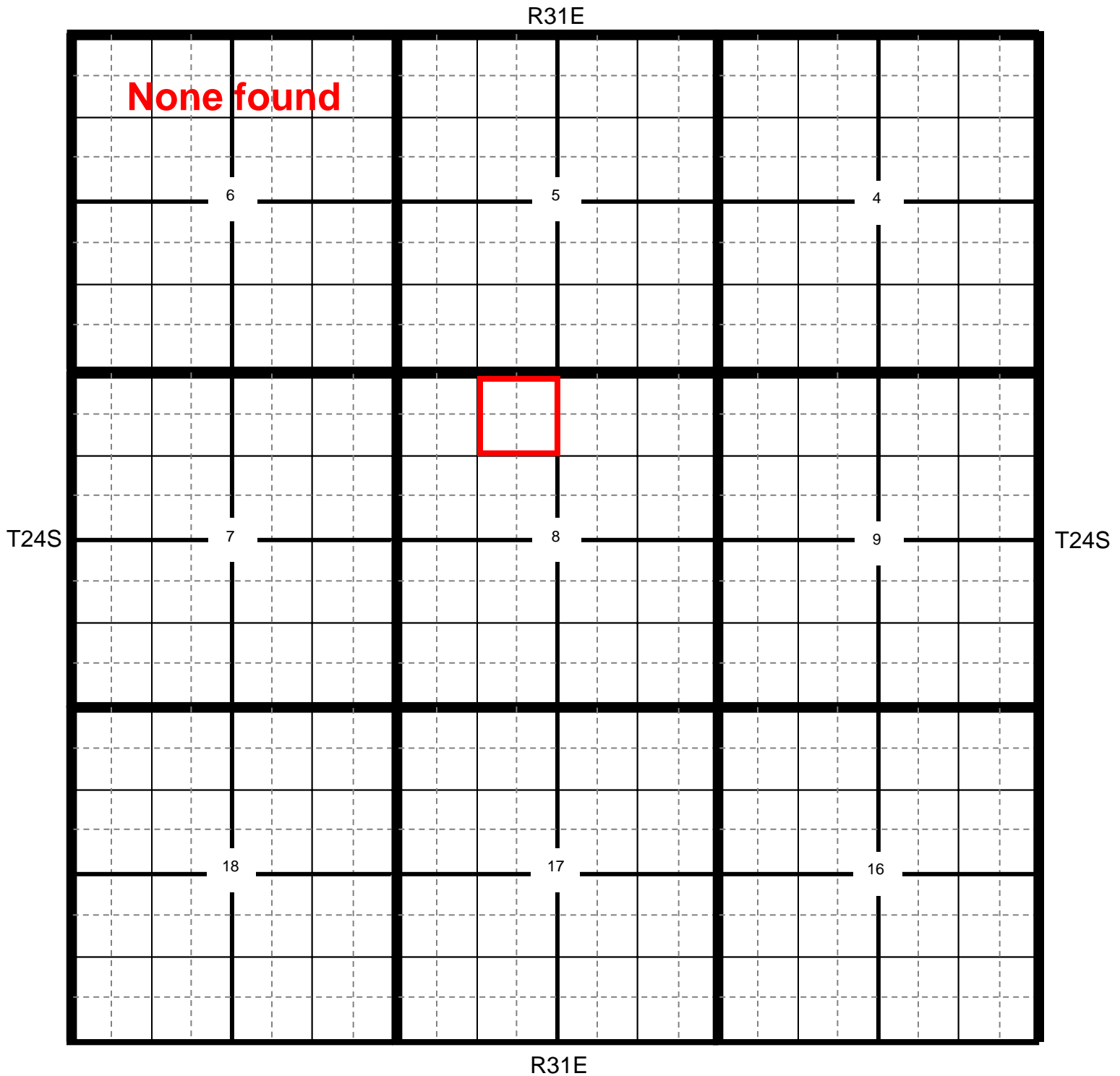
Unit Letter  
C

Section  
8

Township  
24S

Range  
31E

Trend Map 200'



★ Location

● OCD

● USGS

● SEO

● All Databases

## Oxy Sundance 8 Federal #1 CTB

**County** Eddy      **Unit Letter** C      **Section** 8      **Township** 24S      **Range** 31E

Trend Map 200'

1

2

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

3

4

**Laboratory Analytical Results Summary**  
**Sundance 8 Federal #1 CTB**

		Sample	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	1/10/17	1/10/17
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300
<b>GRO</b>	TPH 8015M		<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0

		Sample	SP6 @ 1'	SP6 @ 2'
Analyte	Method	Date	1/10/17	1/10/17
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300
<b>GRO</b>	TPH 8015M		<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<b>25.8</b>

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	1/10/17	1/10/17	1/10/17
			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>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'
Analyte	Method	Date	1/11/17	1/11/17	1/11/17
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.109</b>	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>0.196</b>	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>0.579</b>	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>0.884</b>	<0.300	<0.300
<b>GRO</b>	TPH 8015M		<b>14.7</b>	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>816</b>	<b>61.3</b>	<b>21.2</b>

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	1/10/17	1/10/17	1/10/17
			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>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP8 @ 1'	SP8 @ 2'	SP8 @ 3'
Analyte	Method	Date	1/11/17	1/11/17	1/11/17
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.119</b>	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>0.156</b>	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>0.569</b>	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>0.844</b>	<0.300	<0.300
<b>GRO</b>	TPH 8015M		<50.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>1340</b>	<b>85.8</b>	<10.0

		Sample	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	1/10/17	1/10/17	1/10/17
			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>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'
Analyte	Method	Date	1/11/17	1/11/17	1/11/17
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.219</b>	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>0.187</b>	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>0.681</b>	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>1.09</b>	<0.300	<0.300
<b>GRO</b>	TPH 8015M		<50.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>917</b>	<b>24.5</b>	<10.0

		Sample	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'
Analyte	Method	Date	1/10/17	1/10/17	1/10/17
			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>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0	<10.0

		Sample	North Sample	East Sample	West Sample	South Sample
Analyte	Method	Date	1/11/17	1/11/17	1/11/17	1/11/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0

January 19, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SUNDANCE 8 #1

Enclosed are the results of analyses for samples received by the laboratory on 01/13/17 16:45.

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,



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:	01/13/2017	Sampling Date:	01/10/2017
Reported:	01/19/2017	Sampling Type:	Soil
Project Name:	SUNDANCE 8 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 1 @ 1' (H700096-01)**

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2017	ND	2.25	112	2.00	1.42	
Toluene*	<0.050	0.050	01/17/2017	ND	2.22	111	2.00	1.47	
Ethylbenzene*	<0.050	0.050	01/17/2017	ND	2.24	112	2.00	1.26	
Total Xylenes*	<0.150	0.150	01/17/2017	ND	6.34	106	6.00	1.39	
Total BTEX	<0.300	0.300	01/17/2017	ND					

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2017	ND	211	105	200	3.72	
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	231	116	200	1.17	

Surrogate: 1-Chlorooctane 85.4 % 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: 01/13/2017  
Reported: 01/19/2017  
Project Name: SUNDANCE 8 #1  
Project Number: NONE GIVEN  
Project Location: OXY

Sampling Date: 01/10/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 2' (H700096-02)**

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2017	ND	2.25	112	2.00	1.42		
Toluene*	<0.050	0.050	01/17/2017	ND	2.22	111	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/17/2017	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	01/17/2017	ND	6.34	106	6.00	1.39		
Total BTEX	<0.300	0.300	01/17/2017	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/17/2017	ND	211	105	200	3.72		
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	231	116	200	1.17		

Surrogate: 1-Chlorooctane 85.2 % 35-147

Surrogate: 1-Chlorooctadecane 87.7 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Received: 01/13/2017  
Reported: 01/19/2017  
Project Name: SUNDANCE 8 #1  
Project Number: NONE GIVEN  
Project Location: OXY

Sampling Date: 01/10/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1' (H700096-03)**

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	01/17/2017	ND	2.25	112	2.00	1.42		
Toluene*	<0.050	0.050	01/17/2017	ND	2.22	111	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/17/2017	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	01/17/2017	ND	6.34	106	6.00	1.39		
Total BTX	<0.300	0.300	01/17/2017	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2017	ND	211	105	200	3.72	
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	231	116	200	1.17	

Surrogate: 1-Chlorooctane 86.6 % 35-147

Surrogate: 1-Chlorooctadecane 91.4 % 28-171

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

Received:	01/13/2017	Sampling Date:	01/10/2017
Reported:	01/19/2017	Sampling Type:	Soil
Project Name:	SUNDANCE 8 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 2 @ 2' (H700096-04)**

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	01/17/2017	ND	2.25	112	2.00	1.42		
Toluene*	<0.050	0.050	01/17/2017	ND	2.22	111	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/17/2017	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	01/17/2017	ND	6.34	106	6.00	1.39		
Total BTEX	<0.300	0.300	01/17/2017	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2017	ND	211	105	200	3.72	
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	231	116	200	1.17	

Surrogate: 1-Chlorooctane 97.1 % 35-147

Surrogate: 1-Chlorooctadecane 113 % 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:	01/13/2017	Sampling Date:	01/10/2017
Reported:	01/19/2017	Sampling Type:	Soil
Project Name:	SUNDANCE 8 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 2 @ 3' (H700096-05)**

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	01/17/2017	ND	2.25	112	2.00	1.42		
Toluene*	<0.050	0.050	01/17/2017	ND	2.22	111	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/17/2017	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	01/17/2017	ND	6.34	106	6.00	1.39		
Total BTEX	<0.300	0.300	01/17/2017	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/17/2017	ND	211	105	200	3.72		
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	231	116	200	1.17		

Surrogate: 1-Chlorooctane 81.0 % 35-147

Surrogate: 1-Chlorooctadecane 83.6 % 28-171

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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:	01/13/2017	Sampling Date:	01/10/2017
Reported:	01/19/2017	Sampling Type:	Soil
Project Name:	SUNDANCE 8 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 3 @ 1' (H700096-06)**

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	01/17/2017	ND	2.25	112	2.00	1.42		
Toluene*	<0.050	0.050	01/17/2017	ND	2.22	111	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/17/2017	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	01/17/2017	ND	6.34	106	6.00	1.39		
Total BTX	<0.300	0.300	01/17/2017	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2017	ND	211	105	200	3.72	
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	231	116	200	1.17	

Surrogate: 1-Chlorooctane 95.9 % 35-147

Surrogate: 1-Chlorooctadecane 94.6 % 28-171

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\*=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:	01/13/2017	Sampling Date:	01/10/2017
Reported:	01/19/2017	Sampling Type:	Soil
Project Name:	SUNDANCE 8 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 3 @ 2' (H700096-07)**

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2017	ND	2.25	112	2.00	1.42		
Toluene*	<0.050	0.050	01/17/2017	ND	2.22	111	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/17/2017	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	01/17/2017	ND	6.34	106	6.00	1.39		
Total BTEX	<0.300	0.300	01/17/2017	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/17/2017	ND	211	105	200	3.72		
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	231	116	200	1.17		

Surrogate: 1-Chlorooctane 91.4 % 35-147

Surrogate: 1-Chlorooctadecane 92.1 % 28-171

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**Analytical Results For:**

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

Received:	01/13/2017	Sampling Date:	01/10/2017
Reported:	01/19/2017	Sampling Type:	Soil
Project Name:	SUNDANCE 8 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 3 @ 3' (H700096-08)**

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	01/17/2017	ND	2.25	112	2.00	1.42	
Toluene*	<0.050	0.050	01/17/2017	ND	2.22	111	2.00	1.47	
Ethylbenzene*	<0.050	0.050	01/17/2017	ND	2.24	112	2.00	1.26	
Total Xylenes*	<0.150	0.150	01/17/2017	ND	6.34	106	6.00	1.39	
Total BTEX	<0.300	0.300	01/17/2017	ND					

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2017	ND	211	105	200	3.72	
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	231	116	200	1.17	

Surrogate: 1-Chlorooctane 78.4 % 35-147

Surrogate: 1-Chlorooctadecane 80.6 % 28-171

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

Received: 01/13/2017  
Reported: 01/19/2017  
Project Name: SUNDANCE 8 #1  
Project Number: NONE GIVEN  
Project Location: OXY

Sampling Date: 01/10/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 1' (H700096-09)**

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2017	ND	2.25	112	2.00	1.42	
Toluene*	<0.050	0.050	01/17/2017	ND	2.22	111	2.00	1.47	
Ethylbenzene*	<0.050	0.050	01/17/2017	ND	2.24	112	2.00	1.26	
Total Xylenes*	<0.150	0.150	01/17/2017	ND	6.34	106	6.00	1.39	
Total BTEX	<0.300	0.300	01/17/2017	ND					

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2017	ND	211	105	200	3.72	
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	231	116	200	1.17	

Surrogate: 1-Chlorooctane 85.3 % 35-147

Surrogate: 1-Chlorooctadecane 85.4 % 28-171

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Cliff Brunson  
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Fax To: (575) 397-0397

Received: 01/13/2017  
Reported: 01/19/2017  
Project Name: SUNDANCE 8 #1  
Project Number: NONE GIVEN  
Project Location: OXY

Sampling Date: 01/10/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 2' (H700096-10)**

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/17/2017	ND	2.25	112	2.00	1.42		
Toluene*	<0.050	0.050	01/17/2017	ND	2.22	111	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/17/2017	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	01/17/2017	ND	6.34	106	6.00	1.39		
Total BTEX	<0.300	0.300	01/17/2017	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2017	ND	211	105	200	3.72	
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	231	116	200	1.17	

Surrogate: 1-Chlorooctane 81.1 % 35-147

Surrogate: 1-Chlorooctadecane 88.2 % 28-171

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 Fax To: (575) 397-0397

Received:	01/13/2017	Sampling Date:	01/10/2017
Reported:	01/19/2017	Sampling Type:	Soil
Project Name:	SUNDANCE 8 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 4 @ 3' (H700096-11)**

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	01/17/2017	ND	2.25	112	2.00	1.42		
Toluene*	<0.050	0.050	01/17/2017	ND	2.22	111	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/17/2017	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	01/17/2017	ND	6.34	106	6.00	1.39		
Total BTEX	<0.300	0.300	01/17/2017	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2017	ND	211	105	200	3.72	
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	231	116	200	1.17	

Surrogate: 1-Chlorooctane 76.8 % 35-147

Surrogate: 1-Chlorooctadecane 84.9 % 28-171

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

Received:	01/13/2017	Sampling Date:	01/10/2017
Reported:	01/19/2017	Sampling Type:	Soil
Project Name:	SUNDANCE 8 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 5 @ 1' (H700096-12)**

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	01/17/2017	ND	2.25	112	2.00	1.42		
Toluene*	<0.050	0.050	01/17/2017	ND	2.22	111	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/17/2017	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	01/17/2017	ND	6.34	106	6.00	1.39		
Total BTEX	<0.300	0.300	01/17/2017	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/17/2017	ND	211	105	200	3.72		
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	231	116	200	1.17		

Surrogate: 1-Chlorooctane 86.1 % 35-147

Surrogate: 1-Chlorooctadecane 86.9 % 28-171

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

Received: 01/13/2017  
Reported: 01/19/2017  
Project Name: SUNDANCE 8 #1  
Project Number: NONE GIVEN  
Project Location: OXY

Sampling Date: 01/10/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 2' (H700096-13)**

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	01/17/2017	ND	2.25	112	2.00	1.42	
Toluene*	<0.050	0.050	01/17/2017	ND	2.22	111	2.00	1.47	
Ethylbenzene*	<0.050	0.050	01/17/2017	ND	2.24	112	2.00	1.26	
Total Xylenes*	<0.150	0.150	01/17/2017	ND	6.34	106	6.00	1.39	
Total BTEX	<0.300	0.300	01/17/2017	ND					

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2017	ND	211	105	200	3.72	
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	231	116	200	1.17	

Surrogate: 1-Chlorooctane 80.0 % 35-147

Surrogate: 1-Chlorooctadecane 91.1 % 28-171

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

Received:	01/13/2017	Sampling Date:	01/10/2017
Reported:	01/19/2017	Sampling Type:	Soil
Project Name:	SUNDANCE 8 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 5 @ 3' (H700096-14)**

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	01/17/2017	ND	2.25	112	2.00	1.42		
Toluene*	<0.050	0.050	01/17/2017	ND	2.22	111	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/17/2017	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	01/17/2017	ND	6.34	106	6.00	1.39		
Total BTEX	<0.300	0.300	01/17/2017	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/17/2017	ND	211	105	200	3.72		
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	231	116	200	1.17		

Surrogate: 1-Chlorooctane 80.4 % 35-147

Surrogate: 1-Chlorooctadecane 89.1 % 28-171

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Fax To: (575) 397-0397

Received: 01/13/2017  
Reported: 01/19/2017  
Project Name: SUNDANCE 8 #1  
Project Number: NONE GIVEN  
Project Location: OXY

Sampling Date: 01/10/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 6 @ 1' (H700096-15)**

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	01/17/2017	ND	2.25	112	2.00	1.42		
Toluene*	<0.050	0.050	01/17/2017	ND	2.22	111	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/17/2017	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	01/17/2017	ND	6.34	106	6.00	1.39		
Total BTEX	<0.300	0.300	01/17/2017	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2017	ND	211	105	200	3.72	
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	231	116	200	1.17	

Surrogate: 1-Chlorooctane 85.7 % 35-147

Surrogate: 1-Chlorooctadecane 92.4 % 28-171

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 Fax To: (575) 397-0397

Received:	01/13/2017	Sampling Date:	01/10/2017
Reported:	01/19/2017	Sampling Type:	Soil
Project Name:	SUNDANCE 8 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 6 @ 2' (H700096-16)**

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	01/17/2017	ND	2.25	112	2.00	1.42		
Toluene*	<0.050	0.050	01/17/2017	ND	2.22	111	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/17/2017	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	01/17/2017	ND	6.34	106	6.00	1.39		
Total BTEX	<0.300	0.300	01/17/2017	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/17/2017	ND	211	105	200	3.72		
<b>DRO &gt;C10-C28</b>	<b>25.8</b>	10.0	01/17/2017	ND	231	116	200	1.17		

Surrogate: 1-Chlorooctane 79.9 % 35-147

Surrogate: 1-Chlorooctadecane 86.9 % 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: 01/13/2017  
Reported: 01/19/2017  
Project Name: SUNDANCE 8 #1  
Project Number: NONE GIVEN  
Project Location: OXY

Sampling Date: 01/11/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 1' (H700096-17)**

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	01/17/2017	ND	2.25	112	2.00	1.42	
Toluene*	0.109	0.050	01/17/2017	ND	2.22	111	2.00	1.47	
Ethylbenzene*	0.196	0.050	01/17/2017	ND	2.24	112	2.00	1.26	
Total Xylenes*	0.579	0.150	01/17/2017	ND	6.34	106	6.00	1.39	
Total BTEX	0.884	0.300	01/17/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	14.7	10.0	01/17/2017	ND	211	105	200	3.72	
DRO >C10-C28	816	10.0	01/17/2017	ND	231	116	200	1.17	

Surrogate: 1-Chlorooctane 77.0 % 35-147

Surrogate: 1-Chlorooctadecane 91.3 % 28-171

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

Received:	01/13/2017	Sampling Date:	01/11/2017
Reported:	01/19/2017	Sampling Type:	Soil
Project Name:	SUNDANCE 8 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 7 @ 2' (H700096-18)**

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	01/17/2017	ND	2.25	112	2.00	1.42		
Toluene*	<0.050	0.050	01/17/2017	ND	2.22	111	2.00	1.47		
Ethylbenzene*	<0.050	0.050	01/17/2017	ND	2.24	112	2.00	1.26		
Total Xylenes*	<0.150	0.150	01/17/2017	ND	6.34	106	6.00	1.39		
Total BTEX	<0.300	0.300	01/17/2017	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/17/2017	ND	195	97.5	200	1.18		
<b>DRO &gt;C10-C28</b>	<b>61.3</b>	10.0	01/17/2017	ND	202	101	200	1.74	QM-07	

Surrogate: 1-Chlorooctane 70.1 % 35-147

Surrogate: 1-Chlorooctadecane 82.5 % 28-171

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

Received:	01/13/2017	Sampling Date:	01/11/2017
Reported:	01/19/2017	Sampling Type:	Soil
Project Name:	SUNDANCE 8 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 7 @ 3' (H700096-19)**

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	01/18/2017	ND	1.87	93.7	2.00	0.661		
Toluene*	<0.050	0.050	01/18/2017	ND	1.85	92.6	2.00	0.536		
Ethylbenzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.354		
Total Xylenes*	<0.150	0.150	01/18/2017	ND	5.31	88.5	6.00	0.366		
Total BTEX	<0.300	0.300	01/18/2017	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/17/2017	ND	195	97.5	200	1.18		
<b>DRO &gt;C10-C28</b>	<b>21.2</b>	10.0	01/17/2017	ND	202	101	200	1.74		

Surrogate: 1-Chlorooctane 56.0 % 35-147

Surrogate: 1-Chlorooctadecane 65.3 % 28-171

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

Received:	01/13/2017	Sampling Date:	01/11/2017
Reported:	01/19/2017	Sampling Type:	Soil
Project Name:	SUNDANCE 8 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 8 @ 1' (H700096-20)**

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	01/18/2017	ND	1.87	93.7	2.00	0.661	
Toluene*	0.119	0.050	01/18/2017	ND	1.85	92.6	2.00	0.536	
Ethylbenzene*	0.156	0.050	01/18/2017	ND	1.87	93.7	2.00	0.354	
Total Xylenes*	0.569	0.150	01/18/2017	ND	5.31	88.5	6.00	0.366	
Total BTX	0.844	0.300	01/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	01/17/2017	ND	195	97.5	200	1.18	
DRO >C10-C28	1340	50.0	01/17/2017	ND	202	101	200	1.74	

Surrogate: 1-Chlorooctane 78.4 % 35-147

Surrogate: 1-Chlorooctadecane 108 % 28-171

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

Received: 01/13/2017  
Reported: 01/19/2017  
Project Name: SUNDANCE 8 #1  
Project Number: NONE GIVEN  
Project Location: OXY

Sampling Date: 01/11/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 8 @ 2' (H700096-21)**

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	01/18/2017	ND	1.87	93.7	2.00	0.661	
Toluene*	<0.050	0.050	01/18/2017	ND	1.85	92.6	2.00	0.536	
Ethylbenzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.354	
Total Xylenes*	<0.150	0.150	01/18/2017	ND	5.31	88.5	6.00	0.366	
Total BTEX	<0.300	0.300	01/18/2017	ND					

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2017	ND	195	97.5	200	1.18	
DRO >C10-C28	85.8	10.0	01/17/2017	ND	202	101	200	1.74	

Surrogate: 1-Chlorooctane 63.4 % 35-147

Surrogate: 1-Chlorooctadecane 70.6 % 28-171

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

Received:	01/13/2017	Sampling Date:	01/11/2017
Reported:	01/19/2017	Sampling Type:	Soil
Project Name:	SUNDANCE 8 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 8 @ 3' (H700096-22)**

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	01/18/2017	ND	1.87	93.7	2.00	0.661	
Toluene*	<0.050	0.050	01/18/2017	ND	1.85	92.6	2.00	0.536	
Ethylbenzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.354	
Total Xylenes*	<0.150	0.150	01/18/2017	ND	5.31	88.5	6.00	0.366	
Total BTEX	<0.300	0.300	01/18/2017	ND					

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2017	ND	195	97.5	200	1.18	
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	202	101	200	1.74	

Surrogate: 1-Chlorooctane 86.6 % 35-147

Surrogate: 1-Chlorooctadecane 91.0 % 28-171

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

Received: 01/13/2017  
Reported: 01/19/2017  
Project Name: SUNDANCE 8 #1  
Project Number: NONE GIVEN  
Project Location: OXY

Sampling Date: 01/11/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 9 @ 1' (H700096-23)**

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	01/18/2017	ND	1.87	93.7	2.00	0.661	
Toluene*	0.219	0.050	01/18/2017	ND	1.85	92.6	2.00	0.536	
Ethylbenzene*	0.187	0.050	01/18/2017	ND	1.87	93.7	2.00	0.354	
Total Xylenes*	0.681	0.150	01/18/2017	ND	5.31	88.5	6.00	0.366	
Total BTX	1.09	0.300	01/18/2017	ND					

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	01/17/2017	ND	195	97.5	200	1.18	
DRO >C10-C28	917	50.0	01/17/2017	ND	202	101	200	1.74	

Surrogate: 1-Chlorooctane 71.1 % 35-147

Surrogate: 1-Chlorooctadecane 108 % 28-171

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

Received:	01/13/2017	Sampling Date:	01/11/2017
Reported:	01/19/2017	Sampling Type:	Soil
Project Name:	SUNDANCE 8 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SP 9 @ 2' (H700096-24)**

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	01/18/2017	ND	1.87	93.7	2.00	0.661		
Toluene*	<0.050	0.050	01/18/2017	ND	1.85	92.6	2.00	0.536		
Ethylbenzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.354		
Total Xylenes*	<0.150	0.150	01/18/2017	ND	5.31	88.5	6.00	0.366		
Total BTEX	<0.300	0.300	01/18/2017	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2017	ND	195	97.5	200	1.18	
DRO >C10-C28	24.5	10.0	01/17/2017	ND	202	101	200	1.74	

Surrogate: 1-Chlorooctane 74.5 % 35-147

Surrogate: 1-Chlorooctadecane 82.7 % 28-171

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

Received: 01/13/2017  
Reported: 01/19/2017  
Project Name: SUNDANCE 8 #1  
Project Number: NONE GIVEN  
Project Location: OXY

Sampling Date: 01/11/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 9 @ 3' (H700096-25)**

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	01/18/2017	ND	1.87	93.7	2.00	0.661		
Toluene*	<0.050	0.050	01/18/2017	ND	1.85	92.6	2.00	0.536		
Ethylbenzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.354		
Total Xylenes*	<0.150	0.150	01/18/2017	ND	5.31	88.5	6.00	0.366		
Total BTEX	<0.300	0.300	01/18/2017	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2017	ND	195	97.5	200	1.18	
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	202	101	200	1.74	

Surrogate: 1-Chlorooctane 75.0 % 35-147

Surrogate: 1-Chlorooctadecane 86.0 % 28-171

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

Received:	01/13/2017	Sampling Date:	01/11/2017
Reported:	01/19/2017	Sampling Type:	Soil
Project Name:	SUNDANCE 8 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: NORTH (H700096-26)**

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	01/18/2017	ND	1.87	93.7	2.00	0.661		
Toluene*	<0.050	0.050	01/18/2017	ND	1.85	92.6	2.00	0.536		
Ethylbenzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.354		
Total Xylenes*	<0.150	0.150	01/18/2017	ND	5.31	88.5	6.00	0.366		
Total BTEX	<0.300	0.300	01/18/2017	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/17/2017	ND	195	97.5	200	1.18		
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	202	101	200	1.74		

Surrogate: 1-Chlorooctane 91.0 % 35-147

Surrogate: 1-Chlorooctadecane 94.7 % 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: 01/13/2017  
Reported: 01/19/2017  
Project Name: SUNDANCE 8 #1  
Project Number: NONE GIVEN  
Project Location: OXY

Sampling Date: 01/11/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: EAST (H700096-27)**

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	01/18/2017	ND	1.87	93.7	2.00	0.661		
Toluene*	<0.050	0.050	01/18/2017	ND	1.85	92.6	2.00	0.536		
Ethylbenzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.354		
Total Xylenes*	<0.150	0.150	01/18/2017	ND	5.31	88.5	6.00	0.366		
Total BTEX	<0.300	0.300	01/18/2017	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2017	ND	195	97.5	200	1.18	
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	202	101	200	1.74	

Surrogate: 1-Chlorooctane 88.1 % 35-147

Surrogate: 1-Chlorooctadecane 96.7 % 28-171

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/13/2017	Sampling Date:	01/11/2017
Reported:	01/19/2017	Sampling Type:	Soil
Project Name:	SUNDANCE 8 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: WEST (H700096-28)**

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	01/18/2017	ND	1.87	93.7	2.00	0.661		
Toluene*	<0.050	0.050	01/18/2017	ND	1.85	92.6	2.00	0.536		
Ethylbenzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.354		
Total Xylenes*	<0.150	0.150	01/18/2017	ND	5.31	88.5	6.00	0.366		
Total BTEX	<0.300	0.300	01/18/2017	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/17/2017	ND	195	97.5	200	1.18		
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	202	101	200	1.74		

Surrogate: 1-Chlorooctane 87.2 % 35-147

Surrogate: 1-Chlorooctadecane 97.4 % 28-171

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/13/2017	Sampling Date:	01/11/2017
Reported:	01/19/2017	Sampling Type:	Soil
Project Name:	SUNDANCE 8 #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY		

**Sample ID: SOUTH (H700096-29)**

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	01/18/2017	ND	1.87	93.7	2.00	0.661		
Toluene*	<0.050	0.050	01/18/2017	ND	1.85	92.6	2.00	0.536		
Ethylbenzene*	<0.050	0.050	01/18/2017	ND	1.87	93.7	2.00	0.354		
Total Xylenes*	<0.150	0.150	01/18/2017	ND	5.31	88.5	6.00	0.366		
Total BTEX	<0.300	0.300	01/18/2017	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/17/2017	ND	195	97.5	200	1.18		
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	202	101	200	1.74		

Surrogate: 1-Chlorooctane 80.3 % 35-147

Surrogate: 1-Chlorooctadecane 91.8 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

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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Cardinal Laboratories

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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**

Company Name: BBC International, Inc.  
Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

P.O. #:

Company:

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

**ANALYSIS REQUEST**

Address: P.O. Box 805		P.O. #:	
City: Hobbs		Company:	
State: NM Zip: 88241		Attn:	
Phone #: 575-397-6388		Address:	
Fax #: 575-397-0397		City:	
Project #:		State:	
Project Name: Sundance O Field #1		Zip:	
Project Location:		Phone #:	
Sample Name: 109 Crncls		Fax #:	
FOR LAB USE ONLY		MATRIX	
Lab I.D.		PRESERV	
Sample I.D.		SAMPLING	
H100096			
(G)RAB OR (C)OMP.			
# CONTAINERS			
GROUNDWATER			
WASTEWATER			
SOIL			
OIL			
SLUDGE			
OTHER :			
ACID/BASE:			
ICE / COOL			
OTHER :			
DATE		TIME	
1-10		930	
SP 101		X	
SP 202		X	
SP 301		X	
SP 41		X	
SP 42		X	
SP 43		X	
SP 44		X	
SP 45		X	
SP 46		X	
SP 47		X	
SP 48		X	
SP 49		X	
SP 50		X	
SP 51		X	
SP 52		X	
SP 53		X	
SP 54		X	
SP 55		X	
SP 56		X	
SP 57		X	
SP 58		X	
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SP 104		X	
SP 105		X	
SP 106		X	
SP 107		X	
SP 108		X	
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SP 138		X	
SP 139		X	
SP 140		X	
SP 141		X	
SP 142		X	
SP 143		X	
SP 144		X	
SP 145		X	
SP 146		X	
SP 147		X	
SP 148		X	
SP 149		X	
SP 150		X	
SP 151		X	
SP 152		X	
SP 153		X	
SP 154		X	
SP 155		X	
SP 156		X	
SP 157		X	
SP 158		X	
SP 159		X	
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SP 161		X	
SP 162		X	
SP 163		X	
SP 164		X	
SP 165		X	
SP 166		X	
SP 167		X	
SP 168		X	
SP 169		X	
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SP 171		X	
SP 172		X	
SP 173		X	
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SP 194		X	
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SP 196		X	
SP 197		X	
SP 198		X	
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SP 201		X	
SP 202		X	
SP 203		X	
SP 204		X	
SP 205		X	
SP 206		X	
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SP 208		X	
SP 209		X	
SP 210		X	
SP 211		X	
SP 212		X	
SP 213		X	
SP 214		X	
SP 215		X	
SP 216		X	
SP 217		X	
SP 218		X	
SP 219		X	
SP 220		X	
SP 221		X	
SP 222		X	
SP 223		X	
SP 224		X	
SP 225		X	
SP 226		X	
SP 227		X	
SP 228		X	
SP 229		X	
SP 230		X	
SP 231		X	
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SP 236		X	
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SP 238		X	
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SP 240		X	
SP 241		X	
SP 242		X	
SP 243		X	
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SP 250		X	
SP 251		X	
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SP 256		X	
SP 257		X	
SP 258		X	
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SP 261		X	
SP 262		X	
SP 263		X	
SP 264		X	
SP 265		X	
SP 266		X	
SP 267		X	
SP 268		X	
SP 269		X	
SP 270		X	
SP 271		X	
SP 272		X	
SP 273		X	
SP 274		X	
SP 275		X	
SP 276		X	
SP 277		X	
SP 278		X	
SP 279		X	
SP 280		X	
SP 281		X	
SP 282		X	
SP 283		X	
SP 284		X	
SP 285		X	
SP 286		X	
SP 287		X	
SP 288		X	
SP 289		X	
SP 290		X	
SP 291		X	
SP 292		X	
SP 293		X	
SP 294		X	
SP 295		X	
SP 296		X	
SP 297		X	
SP 298		X	
SP 299		X	
SP 300		X	
SP 301		X	
SP 302		X	
SP 303		X	
SP 304		X	
SP 305		X	
SP 306		X	
SP 307		X	
SP 308		X	
SP 309		X	
SP 310		X	
SP 311		X	
SP 312		X	
SP 313		X	
SP 314		X	
SP 315		X	
SP 316		X	
SP 317		X	
SP 318		X	
SP 319		X	
SP 320		X	
SP 321		X	
SP 322		X	
SP 323		X	
SP 324		X	
SP 325		X	
SP 326		X	
SP 327		X	
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SP 329		X	
SP 330		X	
SP 331		X	
SP 332		X	
SP 333		X	
SP 334		X	
SP 335		X	
SP 336		X	
SP 337		X	
SP 338		X	
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SP 340		X	
SP 341		X	
SP 342		X	
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SP 344		X	
SP 345		X	
SP 346		X	
SP 347		X	
SP 348		X	
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SP 355		X	
SP 356		X	
SP 357		X	
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SP 359		X	
SP 360		X	
SP 361		X	
SP 362		X	
SP 363		X	
SP 364		X	
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SP 366		X	
SP 367		X	
SP 368		X	
SP 369		X	
SP 370		X	
SP 371		X	
SP 372		X	
SP 373		X	
SP 374		X	
SP 375		X	
SP 376		X	
SP 377		X	
SP 378		X	
SP 379		X	
SP 380		X	
SP 381		X	
SP 382		X	
SP 383		X	
SP 384		X	
SP 385		X	
SP 386		X	
SP 387		X	
SP 388		X	
SP 389		X	
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SP 394		X	
SP 395		X	
SP 396		X	
SP 397		X	
SP 398		X	
SP 399		X	
SP 400		X	
SP 401		X	
SP 402		X	
SP 403		X	
SP 404		X	
SP 405		X	
SP 406		X	
SP 407		X	
SP 408		X	
SP 409		X	
SP 410		X	
SP 411		X	
SP 412		X	
SP 413		X	
SP 414		X	
SP 415		X	
SP 416		X	
SP 417		X	
SP 418		X	
SP 419		X	
SP 420		X	
SP 421		X	
SP 422		X	
SP 423		X	
SP 424		X	
SP 425		X	
SP 426		X	
SP 427		X	
SP 428		X	
SP 429		X	
SP 430		X	
SP 431		X	
SP 432		X	
SP 433		X	
SP 434		X	
SP 435		X	
SP 436		X	
SP 437		X	
SP 438		X	
SP 439		X	
SP 440		X	
SP 441		X	
SP 442		X	
SP 443		X	
SP 444		X	
SP 445		X	
SP 446		X	
SP 447		X	
SP 448		X	
SP 449		X	
SP 450		X	
SP 451		X	
SP 452		X	
SP 453		X	
SP 454		X	
SP 455		X	
SP 456		X	
SP 457		X	
SP 458		X	
SP 459		X	
SP 460		X	
SP 461		X	
SP 462		X	
SP 463		X	
SP 464		X	
SP 465		X	
SP 466		X	
SP 467		X	
SP 468		X	
SP 469		X	
SP 470		X	
SP 471		X	
SP 472		X	
SP 473		X	
SP 474		X	
SP 475		X	
SP 476		X	
SP 477		X	
SP 478		X	
SP 479		X	
SP 480		X	
SP 481		X	
SP 482		X	
SP 483		X	
SP 484		X	
SP 485		X	
SP 486		X	
SP 487		X	
SP 488		X	
SP 489		X	
SP 490		X	

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Relinquished By: \_\_\_\_\_ Date: 1/13/17 Received By: \_\_\_\_\_

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

REMARKS:

Relinquished By: \_\_\_\_\_ Date: 1/13/17 Received By: \_\_\_\_\_  
Delivered By: (Circle One) 75 Sample Condition ☒ Cool ☐ Intact  
Sampler - UPS - Bus - Other: 2.26 ☒ Yes ☐ No

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





**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.  
Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name:

Project Location:

Sampler Name:

**BILL TO**

**ANALYSIS REQUEST**

P.O. #:

Company:

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

HTD00916

SP 403

SP 501

SP 601

SP 701

SP 801

SP 901

SP 1001

SP 1101

SP 1201

SP 1301

SP 1401

SP 1501

SP 1601

SP 1701

SP 1801

SP 1901

SP 2001

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

BTEX  
TPH

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising from weather based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Phone Result:

Fax Result:

REMARKS:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Phone Result:

Fax Result:

REMARKS:

Delivered By: (Circle One)

Date:

Time:

Received By:

Date:

Time:

Phone Result:

Fax Result:

REMARKS:

Sampler - UPS - Bus - Other:

Date:

Time:

Received By:

Date:

Time:

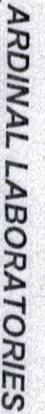
Phone Result:

Fax Result:

REMARKS:

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





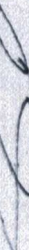

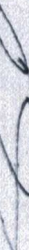


101 East Marland, Hobbs, NM 88240  
(505) 393-2326 FAX (505) 393-2476

**BILL TO**

## ANALYSIS REQUEST

[illegible]

**PLEASE NOTE:** Liability and Damages Cardnet's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardnet within 30 days after completion of the applicable service. In no event shall Cardnet be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardnet, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: 		Date: 1/3/8	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: 		Time:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Date: 1/3/7		Received By: 	REMARKS:		
Time:					
Delivered By: (Circle One)		Sample Condition		CHECKED BY: 	
Sampler - UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>			
#75 2.2c		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
		Yes <input type="checkbox"/> No <input type="checkbox"/>			

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



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	Sundance 8 Federal #1 CTB	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	API No. 30-015-27228

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	8	24S	31E					Eddy

Latitude N 32.23798° Longitude W 103.80333°

### NATURE OF RELEASE

Type of Release	Oil	Volume of Release	13 bbls	Volume Recovered	3 bbls
Source of Release	Bleeder valve on the circulating pump was left open	Date and Hour of Occurrence	12/11/2016	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, Heather Patterson- NMOCD; Shelly Tucker- BLM		
By Whom?	Kathy Purvis @ BBC International Inc.	Date and Hour	12/13/2016 @ 11:37 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.\*

The bleeder valve on the circulating pump was left open spilling 13 bbls of oil on location. A vacuum truck recovered 3 bbls of oil and the valve was closed.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 250' x 40' on location. Remediation will be completed in accordance with an approved remediation plan from NMOCD and the BLM.

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

Signature:	<u>OIL CONSERVATION DIVISION</u>		
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:	12-29-16	Phone:	(575) 513-8289

\* Attach Additional Sheets If Necessary