

RECEIVED

By Kellie Jones at 1:59 pm, Jan 29, 2016

WORLD-WIDE ENVIRONMENTAL SPECIALISTS



APPROVED

By Kellie Jones at 1:59 pm, Jan 29, 2016

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

OXY – ANTELOPE RIDGE #011

REMEDIATION PLAN

OXY will excavate the spill area as depicted on the following site diagram. The spill area covering sample points SP1 will be excavated to a depth of 5 feet. In the area of sample point SP2, 4 feet will be excavated and in the area of SP3, 1.5 feet will be excavated. The entire site will be backfilled with clean soil.

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



Oxy

Antelope Ridge #011

Entry road

Antelope Ridge #011

U/L E, Section 34, T23S, R34E

Lea County, NM

N 32.26229° W 103.46425°

API# 30-025-37624

1.5 ft Excavation

27' x 15'

SP3

Leak Area

SP2

4 ft Excavation

5 ft Excavation

SP1

15' x 8'

Road

BBC International, Inc.

Oxy
Antelope Ridge #011

Date: 10/15/2015

DRWG by: K. Purvis

NOT TO SCALE

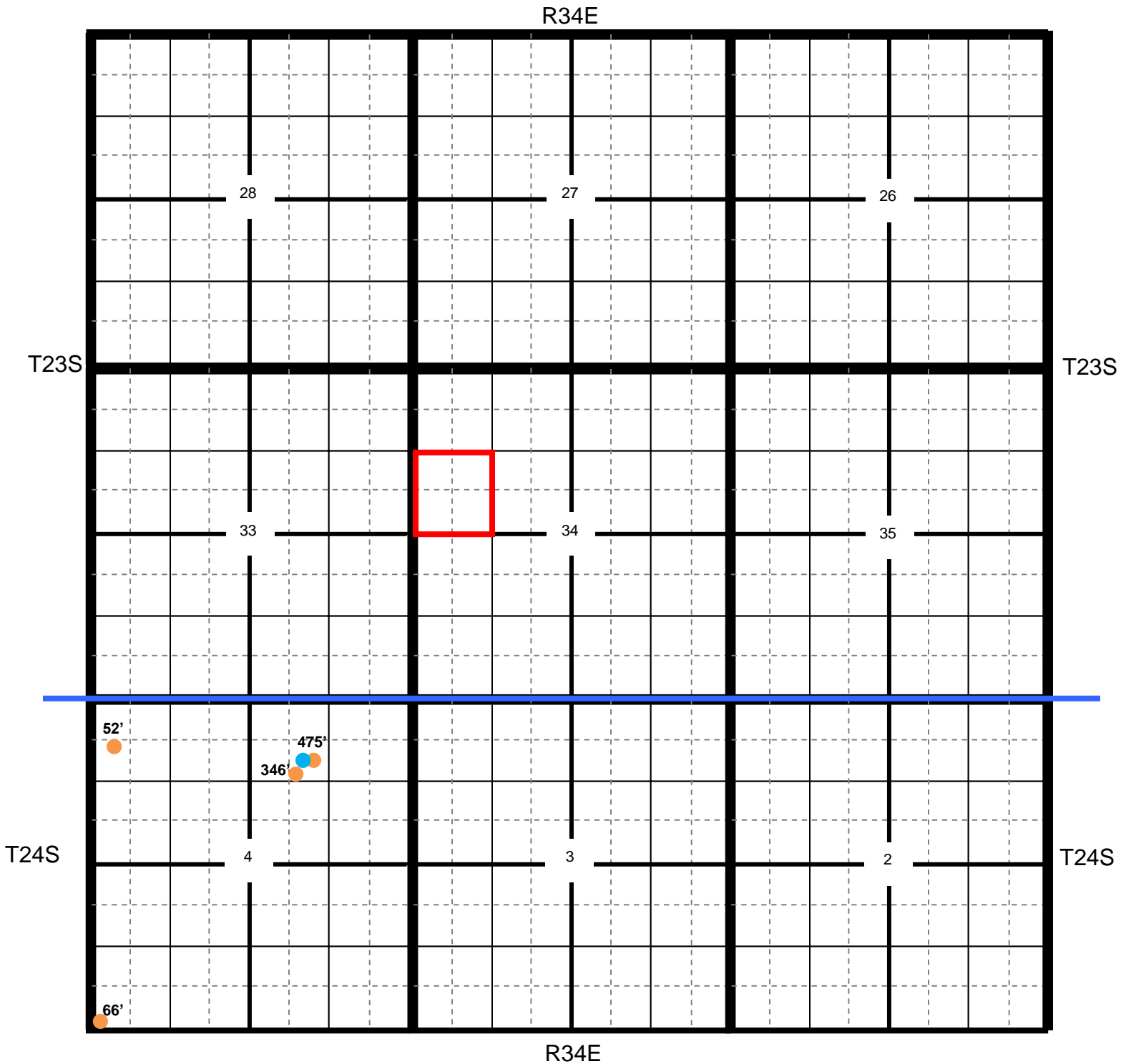
File: Oxy 2015

Groundwater Plot

Oxy Antelope Ridge #011

County	Unit Letter	Section	Township	Range
Lea County	E	34	23S	34E

Trend Map 275'-300'



Oxy Antelope Ridge #011

County	Unit Letter	Section	Township	Range
Lea	E	34	23S	34E

Trend Map 275'-300'

1

2

NW/NW None found	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
Antelope Ridge #11**

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 6'	SP1 @ 7'
Analyte	Method	Date	10/21/15	10/21/15	10/21/15	10/21/15	10/21/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		2200	1840	1380	176	64
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'	SP2 @ 6'	SP2 @ 7'
Analyte	Method	Date	10/21/15	10/21/15	10/22/15	10/22/15	10/22/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		3560	1780	800	288	144
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	11.2	12.1	11.2

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'
Analyte	Method	Date	10/22/15	10/22/15	10/22/15	10/22/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.100	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.155	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.100	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		7.96	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		8.13	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		2120	64	208	80
GRO	TPH 8015M		295	<10.0	<10.0	<10.0
DRO	TPH 8015M		2990	10.1	13.3	<10.0



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

October 28, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: ANTELOPE RIDGE #11

Enclosed are the results of analyses for samples received by the laboratory on 10/23/15 16:53.

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/23/2015
Reported: 10/28/2015
Project Name: ANTELOPE RIDGE #11
Project Number: NONE GIVEN
Project Location: DELAWARE BASIN

Sampling Date: 10/21/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP 1 @ 1' (H502770-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/27/2015	ND	2.04	102	2.00	0.447	
Toluene*	<0.050	0.050	10/27/2015	ND	2.26	113	2.00	0.556	
Ethylbenzene*	<0.050	0.050	10/27/2015	ND	2.05	103	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/27/2015	ND	6.53	109	6.00	1.84	
Total BTX	<0.300	0.300	10/27/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	10/26/2015	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	10/26/2015	ND	210	105	200	4.25	
DRO >C10-C28	<10.0	10.0	10/26/2015	ND	213	107	200	4.13	

Surrogate: 1-Chlorooctane 88.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 101 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Received: 10/23/2015
Reported: 10/28/2015
Project Name: ANTELOPE RIDGE #11
Project Number: NONE GIVEN
Project Location: DELAWARE BASIN

Sampling Date: 10/21/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP 1 @ 3' (H502770-02)

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	10/27/2015	ND	2.04	102	2.00	0.447	
Toluene*	<0.050	0.050	10/27/2015	ND	2.26	113	2.00	0.556	
Ethylbenzene*	<0.050	0.050	10/27/2015	ND	2.05	103	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/27/2015	ND	6.53	109	6.00	1.84	
Total BTEx	<0.300	0.300	10/27/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	10/26/2015	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	10/26/2015	ND	210	105	200	4.25	
DRO >C10-C28	<10.0	10.0	10/26/2015	ND	213	107	200	4.13	

Surrogate: 1-Chlorooctane 91.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 101 % 52.1-176

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Received: 10/23/2015
Reported: 10/28/2015
Project Name: ANTELOPE RIDGE #11
Project Number: NONE GIVEN
Project Location: DELAWARE BASIN

Sampling Date: 10/21/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP 1 @ 5' (H502770-03)

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	10/27/2015	ND	2.04	102	2.00	0.447		
Toluene*	<0.050	0.050	10/27/2015	ND	2.26	113	2.00	0.556		
Ethylbenzene*	<0.050	0.050	10/27/2015	ND	2.05	103	2.00	1.55		
Total Xylenes*	<0.150	0.150	10/27/2015	ND	6.53	109	6.00	1.84		
Total BTEx	<0.300	0.300	10/27/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	10/26/2015	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	10/26/2015	ND	210	105	200	4.25	
DRO >C10-C28	<10.0	10.0	10/26/2015	ND	213	107	200	4.13	

Surrogate: 1-Chlorooctane 90.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 100 % 52.1-176

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Received: 10/23/2015
Reported: 10/28/2015
Project Name: ANTELOPE RIDGE #11
Project Number: NONE GIVEN
Project Location: DELAWARE BASIN

Sampling Date: 10/21/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP 1 @ 6' (H502770-04)

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	10/27/2015	ND	2.04	102	2.00	0.447		
Toluene*	<0.050	0.050	10/27/2015	ND	2.26	113	2.00	0.556		
Ethylbenzene*	<0.050	0.050	10/27/2015	ND	2.05	103	2.00	1.55		
Total Xylenes*	<0.150	0.150	10/27/2015	ND	6.53	109	6.00	1.84		
Total BTEx	<0.300	0.300	10/27/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/26/2015	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	10/26/2015	ND	210	105	200	4.25	
DRO >C10-C28	<10.0	10.0	10/26/2015	ND	213	107	200	4.13	

Surrogate: 1-Chlorooctane 89.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 101 % 52.1-176

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Received: 10/23/2015
Reported: 10/28/2015
Project Name: ANTELOPE RIDGE #11
Project Number: NONE GIVEN
Project Location: DELAWARE BASIN

Sampling Date: 10/21/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP 1 @ 7' (H502770-05)

BTX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/27/2015	ND	2.04	102	2.00	0.447		
Toluene*	<0.050	0.050	10/27/2015	ND	2.26	113	2.00	0.556		
Ethylbenzene*	<0.050	0.050	10/27/2015	ND	2.05	103	2.00	1.55		
Total Xylenes*	<0.150	0.150	10/27/2015	ND	6.53	109	6.00	1.84		
Total BTX	<0.300	0.300	10/27/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/26/2015	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	10/26/2015	ND	210	105	200	4.25	
DRO >C10-C28	<10.0	10.0	10/26/2015	ND	213	107	200	4.13	

Surrogate: 1-Chlorooctane 90.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 99.8 % 52.1-176

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Fax To: (575) 397-0397

Received: 10/23/2015
Reported: 10/28/2015
Project Name: ANTELOPE RIDGE #11
Project Number: NONE GIVEN
Project Location: DELAWARE BASIN

Sampling Date: 10/21/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP 2 @ 1' (H502770-06)

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	10/27/2015	ND	2.04	102	2.00	0.447	
Toluene*	<0.050	0.050	10/27/2015	ND	2.26	113	2.00	0.556	
Ethylbenzene*	<0.050	0.050	10/27/2015	ND	2.05	103	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/27/2015	ND	6.53	109	6.00	1.84	
Total BTEx	<0.300	0.300	10/27/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	10/26/2015	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	10/27/2015	ND	200	100	200	0.0838	
DRO >C10-C28	<10.0	10.0	10/27/2015	ND	206	103	200	0.119	

Surrogate: 1-Chlorooctane 87.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 94.3 % 52.1-176

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Fax To: (575) 397-0397

Received: 10/23/2015
Reported: 10/28/2015
Project Name: ANTELOPE RIDGE #11
Project Number: NONE GIVEN
Project Location: DELAWARE BASIN

Sampling Date: 10/21/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP 2 @ 3' (H502770-07)

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	10/27/2015	ND	2.04	102	2.00	0.447	
Toluene*	<0.050	0.050	10/27/2015	ND	2.26	113	2.00	0.556	
Ethylbenzene*	<0.050	0.050	10/27/2015	ND	2.05	103	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/27/2015	ND	6.53	109	6.00	1.84	
Total BTEx	<0.300	0.300	10/27/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1780	16.0	10/26/2015	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	10/27/2015	ND	200	100	200	0.0838	
DRO >C10-C28	<10.0	10.0	10/27/2015	ND	206	103	200	0.119	

Surrogate: 1-Chlorooctane 84.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.8 % 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: 10/23/2015
Reported: 10/28/2015
Project Name: ANTELOPE RIDGE #11
Project Number: NONE GIVEN
Project Location: DELAWARE BASIN

Sampling Date: 10/22/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP 2 @ 5' (H502770-08)

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	10/27/2015	ND	2.04	102	2.00	0.447	
Toluene*	<0.050	0.050	10/27/2015	ND	2.26	113	2.00	0.556	
Ethylbenzene*	<0.050	0.050	10/27/2015	ND	2.05	103	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/27/2015	ND	6.53	109	6.00	1.84	
Total BTEx	<0.300	0.300	10/27/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	10/26/2015	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	10/27/2015	ND	200	100	200	0.0838	
DRO >C10-C28	11.2	10.0	10/27/2015	ND	206	103	200	0.119	

Surrogate: 1-Chlorooctane 89.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 97.2 % 52.1-176

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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:	10/23/2015	Sampling Date:	10/22/2015
Reported:	10/28/2015	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE #11	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	DELAWARE BASIN		

Sample ID: SP 2 @ 6' (H502770-09)

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	10/27/2015	ND	2.04	102	2.00	0.447	
Toluene*	<0.050	0.050	10/27/2015	ND	2.26	113	2.00	0.556	
Ethylbenzene*	<0.050	0.050	10/27/2015	ND	2.05	103	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/27/2015	ND	6.53	109	6.00	1.84	
Total BTEx	<0.300	0.300	10/27/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/26/2015	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	10/27/2015	ND	200	100	200	0.0838	
DRO >C10-C28	12.1	10.0	10/27/2015	ND	206	103	200	0.119	

Surrogate: 1-Chlorooctane 88.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 99.0 % 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: 10/23/2015
Reported: 10/28/2015
Project Name: ANTELOPE RIDGE #11
Project Number: NONE GIVEN
Project Location: DELAWARE BASIN

Sampling Date: 10/22/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP 2 @ 7' (H502770-10)

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	10/27/2015	ND	2.04	102	2.00	0.447	
Toluene*	<0.050	0.050	10/27/2015	ND	2.26	113	2.00	0.556	
Ethylbenzene*	<0.050	0.050	10/27/2015	ND	2.05	103	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/27/2015	ND	6.53	109	6.00	1.84	
Total BTEx	<0.300	0.300	10/27/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/26/2015	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	10/27/2015	ND	200	100	200	0.0838	
DRO >C10-C28	11.2	10.0	10/27/2015	ND	206	103	200	0.119	

Surrogate: 1-Chlorooctane 87.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 97.2 % 52.1-176

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

Received:	10/23/2015	Sampling Date:	10/22/2015
Reported:	10/28/2015	Sampling Type:	Soil
Project Name:	ANTELOPE RIDGE #11	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	DELAWARE BASIN		

Sample ID: SP 3 @ 1' (H502770-11)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	10/27/2015	ND	2.04	102	2.00	0.447	
Toluene*	0.155	0.100	10/27/2015	ND	2.26	113	2.00	0.556	
Ethylbenzene*	<0.100	0.100	10/27/2015	ND	2.05	103	2.00	1.55	
Total Xylenes*	7.96	0.300	10/27/2015	ND	6.53	109	6.00	1.84	
Total BTEX	8.13	0.600	10/27/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	10/26/2015	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	295	10.0	10/27/2015	ND	200	100	200	0.0838	
DRO >C10-C28	2990	10.0	10/27/2015	ND	206	103	200	0.119	

Surrogate: 1-Chlorooctane 137 % 47.2-157

Surrogate: 1-Chlorooctadecane 122 % 52.1-176

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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: 10/23/2015
Reported: 10/28/2015
Project Name: ANTELOPE RIDGE #11
Project Number: NONE GIVEN
Project Location: DELAWARE BASIN

Sampling Date: 10/22/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP 3 @ 3' (H502770-12)

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	10/27/2015	ND	2.04	102	2.00	0.447		
Toluene*	<0.050	0.050	10/27/2015	ND	2.26	113	2.00	0.556		
Ethylbenzene*	<0.050	0.050	10/27/2015	ND	2.05	103	2.00	1.55		
Total Xylenes*	<0.150	0.150	10/27/2015	ND	6.53	109	6.00	1.84		
Total BTEx	<0.300	0.300	10/27/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/26/2015	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	10/27/2015	ND	200	100	200	0.0838	
DRO >C10-C28	10.1	10.0	10/27/2015	ND	206	103	200	0.119	

Surrogate: 1-Chlorooctane 89.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 97.1 % 52.1-176

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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: 10/23/2015
Reported: 10/28/2015
Project Name: ANTELOPE RIDGE #11
Project Number: NONE GIVEN
Project Location: DELAWARE BASIN

Sampling Date: 10/22/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP 3 @ 4' (H502770-13)

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	10/28/2015	ND	2.04	102	2.00	0.447	
Toluene*	<0.050	0.050	10/28/2015	ND	2.26	113	2.00	0.556	
Ethylbenzene*	<0.050	0.050	10/28/2015	ND	2.05	103	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/28/2015	ND	6.53	109	6.00	1.84	
Total BTEx	<0.300	0.300	10/28/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/26/2015	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	10/27/2015	ND	200	100	200	0.0838	
DRO >C10-C28	13.3	10.0	10/27/2015	ND	206	103	200	0.119	

Surrogate: 1-Chlorooctane 92.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 102 % 52.1-176

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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: 10/23/2015
Reported: 10/28/2015
Project Name: ANTELOPE RIDGE #11
Project Number: NONE GIVEN
Project Location: DELAWARE BASIN

Sampling Date: 10/22/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: SP 3 @ 5' (H502770-14)

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	10/28/2015	ND	2.04	102	2.00	0.447	
Toluene*	<0.050	0.050	10/28/2015	ND	2.26	113	2.00	0.556	
Ethylbenzene*	<0.050	0.050	10/28/2015	ND	2.05	103	2.00	1.55	
Total Xylenes*	<0.150	0.150	10/28/2015	ND	6.53	109	6.00	1.84	
Total BTEx	<0.300	0.300	10/28/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/26/2015	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	10/27/2015	ND	200	100	200	0.0838	
DRO >C10-C28	<10.0	10.0	10/27/2015	ND	206	103	200	0.119	

Surrogate: 1-Chlorooctane 86.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 93.7 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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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

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: Antelope Ridge #11

Project Location: Pelupura Basin

Sampler Name: Jeff Daniels

FOR LAB USE ONLY

State: NM

Zip: 88241

Fax #: 575-397-0397

Project Owner: OXY

City: Jemmy

State: Zip:

Phone #:

Fax #:

P.O. #:

Company:

Attn:

Address:

Lab I.D. Sample I.D.

SP101

03

05

06

07

SP203

05

06

07

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

10-21

8:29

9:30

11:49

12:38

1:15

2:22

3:17

9:30

10:00

11:00

TPH

BTEX

CL-

Relinquished By: Jeff Daniels

Received By: Cheryl Davis

Delivered By: (Circle One) -58c

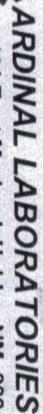
Sampler - UPS - Bus - Other:

REMARKS:

Phone Result: Yes No

Phone Fax #: Add'l Phone #: Add'l Fax #:

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(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

 $\frac{2}{2}$ Page 18 of 18