

## Closure Report

### Site Description

Site Name:	Sand Dunes 34 Federal #2 CTB
Company:	Oxy USA Inc.
Legal Description:	U/L H, Section 34, T23S, R31E
County:	Eddy County, NM
GPS Coordinates:	N 32.26168 W-103.76094

### Release Data

Date of Release:	2/5/19
Type of Release:	Produced water
Source of Release:	Damaged 3 inch poly water transfer line
Volume of Release:	18 bbls
Volume Recovered:	15 bbls

### Remediation Specifications

Remediation Parameters:	Excavated the area on the road to a depth of 6 inches. Excavated the area off the road to a depth of 4 feet at which acceptable chloride levels were observed. Obtained bottom confirmation samples. Backfilled the excavation with clean soil.	
Remediation Activities:	10/24/19 to 11/8/19	
Plan Sent to OCD:	6/26/19	Email from Cliff Brunson to NMOCD
OCD Approval of Plan:	7/3/19	Email from Victoria Venegas to Cliff Brunson
Plan Sent to BLM:	6/26/19	Email from Cliff Brunson to the BLM
BLM Approval of Plan:	7/5/19	Email from Jim Amos to Cliff Brunson

### Supporting Documentation

Initial C-141	Signed 2/8/19
C-141, page 6	Signed and included
Site Diagram	February 2019
Pictures	Remediation photos prior to backfill

### Request for Closure

Based on the completion of the remediation plan, BBC International, Inc. requests closure approval from NMOCD.

Cliff Brunson, President, BBC International, Inc.

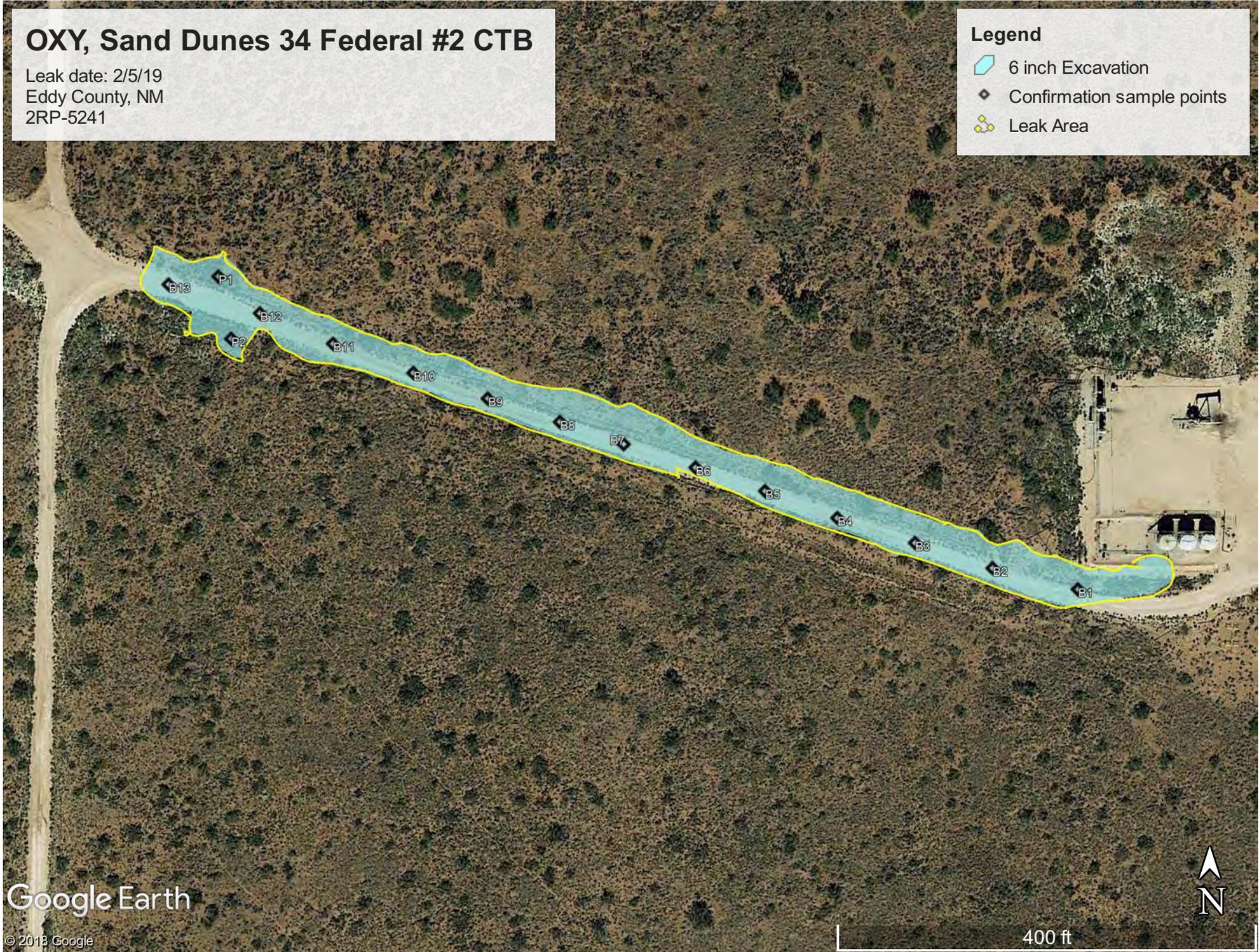
11/12/19

# OXY, Sand Dunes 34 Federal #2 CTB

Leak date: 2/5/19  
Eddy County, NM  
2RP-5241

## Legend

-  6 inch Excavation
-  Confirmation sample points
-  Leak Area



Google Earth

© 2013 Google

400 ft



Oxy, Sand Dunes 34 Federal #2 CTB

Confirmation sample points

B1, N 32.26140 W-103.75971

B2, N 32.26145 W-103.75997

B3, N 32.26452 W-103.76021

B4, N 32.26159 W-103.76045

B5, N 32.26166 W-103.76068

B6, N 32.26172 W-103.76089

B7, N 32.26178 W-103.76112

B8, N 32.26184 W-103.76132

B9, N 32.26190 W-103.76154

B10, N 32.26197 W-103.76177

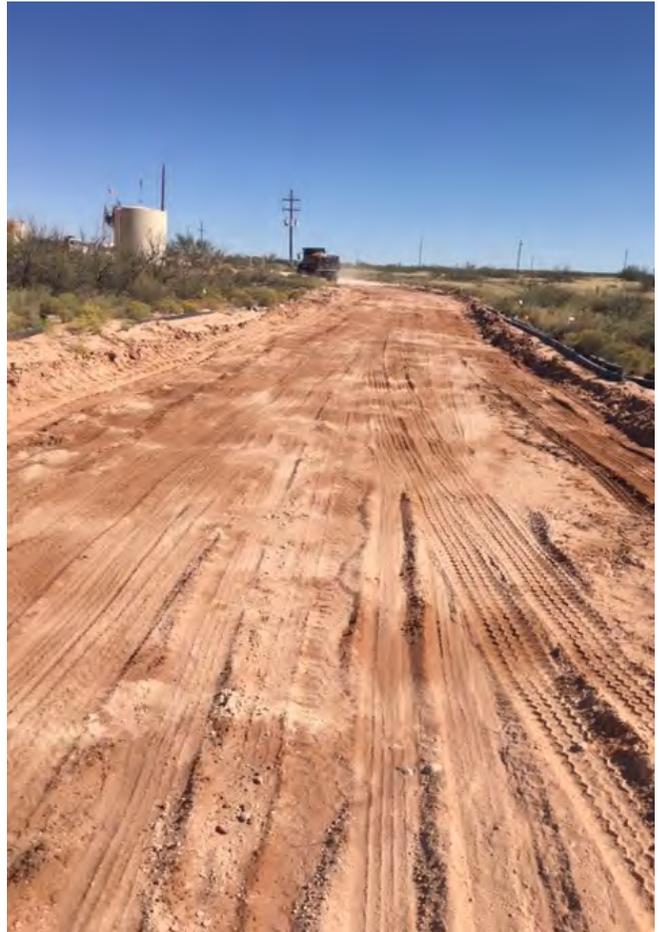
B11, N 32.26205 W-103.76203

B12, N 32.26213 W-103.76226

B13, N 32.26221 W-103.76254

P1, N 32.26223 W-103.76239

P2, N 32.26206 W-103.76235









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

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November 04, 2019

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

RE: SAND DUNES 34 #2

Enclosed are the results of analyses for samples received by the laboratory on 11/01/19 8:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/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



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

**Analytical Results For:**

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

Received:	11/01/2019	Sampling Date:	10/31/2019
Reported:	11/04/2019	Sampling Type:	Soil
Project Name:	SAND DUNES 34 #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-		

**Sample ID: BOTTOM 1 (H903730-01)**

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	11/01/2019	ND	1.82	90.9	2.00	2.81		
Toluene*	<0.050	0.050	11/01/2019	ND	1.81	90.6	2.00	3.19		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.85	92.4	2.00	2.61		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.52	91.9	6.00	2.43		
Total BTEX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>64.0</b>	16.0	11/01/2019	ND	400	100	400	3.92		

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	11/01/2019	ND	225	112	200	1.60		
<b>DRO &gt;C10-C28*</b>	<b>26.4</b>	10.0	11/01/2019	ND	226	113	200	2.40		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 75.9 % 41-142

Surrogate: 1-Chlorooctadecane 81.5 % 37.6-147

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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:	11/01/2019	Sampling Date:	10/31/2019
Reported:	11/04/2019	Sampling Type:	Soil
Project Name:	SAND DUNES 34 #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-		

**Sample ID: BOTTOM 2 (H903730-02)**

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	11/01/2019	ND	1.82	90.9	2.00	2.81		
Toluene*	<0.050	0.050	11/01/2019	ND	1.81	90.6	2.00	3.19		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.85	92.4	2.00	2.61		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.52	91.9	6.00	2.43		
Total BTEX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>48.0</b>	16.0	11/01/2019	ND	400	100	400	3.92		

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	11/01/2019	ND	225	112	200	1.60		
<b>DRO &gt;C10-C28*</b>	<b>36.6</b>	10.0	11/01/2019	ND	226	113	200	2.40		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 93.0 % 41-142

Surrogate: 1-Chlorooctadecane 99.8 % 37.6-147

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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:	11/01/2019	Sampling Date:	10/31/2019
Reported:	11/04/2019	Sampling Type:	Soil
Project Name:	SAND DUNES 34 #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-		

**Sample ID: BOTTOM 3 (H903730-03)**

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	11/01/2019	ND	1.82	90.9	2.00	2.81		
Toluene*	<0.050	0.050	11/01/2019	ND	1.81	90.6	2.00	3.19		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.85	92.4	2.00	2.61		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.52	91.9	6.00	2.43		
Total BTEX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>48.0</b>	16.0	11/01/2019	ND	400	100	400	3.92		

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	11/01/2019	ND	225	112	200	1.60		
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	226	113	200	2.40		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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\* = 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:	11/01/2019	Sampling Date:	10/31/2019
Reported:	11/04/2019	Sampling Type:	Soil
Project Name:	SAND DUNES 34 #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-		

**Sample ID: BOTTOM 4 (H903730-04)**

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	11/01/2019	ND	1.82	90.9	2.00	2.81		
Toluene*	<0.050	0.050	11/01/2019	ND	1.81	90.6	2.00	3.19		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.85	92.4	2.00	2.61		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.52	91.9	6.00	2.43		
Total BTEX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>48.0</b>	16.0	11/01/2019	ND	400	100	400	3.92		

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	11/01/2019	ND	225	112	200	1.60		
<b>DRO &gt;C10-C28*</b>	<b>22.7</b>	10.0	11/01/2019	ND	226	113	200	2.40		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 94.5 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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:	11/01/2019	Sampling Date:	10/31/2019
Reported:	11/04/2019	Sampling Type:	Soil
Project Name:	SAND DUNES 34 #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-		

**Sample ID: BOTTOM 5 (H903730-05)**

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	11/01/2019	ND	1.82	90.9	2.00	2.81		
Toluene*	<0.050	0.050	11/01/2019	ND	1.81	90.6	2.00	3.19		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.85	92.4	2.00	2.61		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.52	91.9	6.00	2.43		
Total BTEX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/01/2019	ND	400	100	400	3.92		

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	11/01/2019	ND	225	112	200	1.60		
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	226	113	200	2.40		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 97.7 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/01/2019	Sampling Date:	10/31/2019
Reported:	11/04/2019	Sampling Type:	Soil
Project Name:	SAND DUNES 34 #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-		

**Sample ID: BOTTOM 6 (H903730-06)**

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	11/01/2019	ND	1.82	90.9	2.00	2.81		
Toluene*	<0.050	0.050	11/01/2019	ND	1.81	90.6	2.00	3.19		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.85	92.4	2.00	2.61		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.52	91.9	6.00	2.43		
Total BTEX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>48.0</b>	16.0	11/01/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/01/2019	ND	225	112	200	1.60		
<b>DRO &gt;C10-C28*</b>	<b>19.1</b>	10.0	11/01/2019	ND	226	113	200	2.40		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 82.8 % 41-142

Surrogate: 1-Chlorooctadecane 89.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	11/01/2019	Sampling Date:	10/31/2019
Reported:	11/04/2019	Sampling Type:	Soil
Project Name:	SAND DUNES 34 #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-		

**Sample ID: BOTTOM 7 (H903730-07)**

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	11/01/2019	ND	1.82	90.9	2.00	2.81		
Toluene*	<0.050	0.050	11/01/2019	ND	1.81	90.6	2.00	3.19		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.85	92.4	2.00	2.61		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.52	91.9	6.00	2.43		
Total BTEX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>48.0</b>	16.0	11/01/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/01/2019	ND	225	112	200	1.60		
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	226	113	200	2.40		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 95.3 % 41-142

Surrogate: 1-Chlorooctadecane 95.8 % 37.6-147

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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:	11/01/2019	Sampling Date:	10/31/2019
Reported:	11/04/2019	Sampling Type:	Soil
Project Name:	SAND DUNES 34 #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-		

**Sample ID: BOTTOM 8 (H903730-08)**

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	11/01/2019	ND	1.82	90.9	2.00	2.81		
Toluene*	<0.050	0.050	11/01/2019	ND	1.81	90.6	2.00	3.19		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.85	92.4	2.00	2.61		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.52	91.9	6.00	2.43		
Total BTEX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>64.0</b>	16.0	11/01/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/01/2019	ND	225	112	200	1.60		
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	226	113	200	2.40		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 90.8 % 41-142

Surrogate: 1-Chlorooctadecane 93.2 % 37.6-147

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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:	11/01/2019	Sampling Date:	10/31/2019
Reported:	11/04/2019	Sampling Type:	Soil
Project Name:	SAND DUNES 34 #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-		

**Sample ID: BOTTOM 9 (H903730-09)**

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	11/01/2019	ND	1.82	90.9	2.00	2.81		
Toluene*	<0.050	0.050	11/01/2019	ND	1.81	90.6	2.00	3.19		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.85	92.4	2.00	2.61		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.52	91.9	6.00	2.43		
Total BTEX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>64.0</b>	16.0	11/01/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/01/2019	ND	225	112	200	1.60		
<b>DRO &gt;C10-C28*</b>	<b>39.2</b>	10.0	11/01/2019	ND	226	113	200	2.40		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 90.5 % 41-142

Surrogate: 1-Chlorooctadecane 94.2 % 37.6-147

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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:	11/01/2019	Sampling Date:	10/31/2019
Reported:	11/04/2019	Sampling Type:	Soil
Project Name:	SAND DUNES 34 #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-		

**Sample ID: BOTTOM 10 (H903730-10)**

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	11/01/2019	ND	1.82	90.9	2.00	2.81		
Toluene*	<0.050	0.050	11/01/2019	ND	1.81	90.6	2.00	3.19		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.85	92.4	2.00	2.61		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.52	91.9	6.00	2.43		
Total BTEX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>64.0</b>	16.0	11/01/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/01/2019	ND	225	112	200	1.60		
<b>DRO &gt;C10-C28*</b>	<b>49.3</b>	10.0	11/01/2019	ND	226	113	200	2.40		
<b>EXT DRO &gt;C28-C36</b>	<b>14.5</b>	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 98.8 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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:	11/01/2019	Sampling Date:	10/31/2019
Reported:	11/04/2019	Sampling Type:	Soil
Project Name:	SAND DUNES 34 #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-		

**Sample ID: BOTTOM 11 (H903730-11)**

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	11/01/2019	ND	1.82	90.9	2.00	2.81		
Toluene*	<0.050	0.050	11/01/2019	ND	1.81	90.6	2.00	3.19		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.85	92.4	2.00	2.61		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.52	91.9	6.00	2.43		
Total BTEX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>64.0</b>	16.0	11/01/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/01/2019	ND	225	112	200	1.60		
<b>DRO &gt;C10-C28*</b>	<b>19.6</b>	10.0	11/01/2019	ND	226	113	200	2.40		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 67.7 % 41-142

Surrogate: 1-Chlorooctadecane 71.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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:	11/01/2019	Sampling Date:	10/31/2019
Reported:	11/04/2019	Sampling Type:	Soil
Project Name:	SAND DUNES 34 #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-		

**Sample ID: BOTTOM 12 (H903730-12)**

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	11/01/2019	ND	1.82	90.9	2.00	2.81		
Toluene*	<0.050	0.050	11/01/2019	ND	1.81	90.6	2.00	3.19		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.85	92.4	2.00	2.61		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.52	91.9	6.00	2.43		
Total BTEX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>48.0</b>	16.0	11/01/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/01/2019	ND	225	112	200	1.60		
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	226	113	200	2.40		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 89.4 % 41-142

Surrogate: 1-Chlorooctadecane 93.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/01/2019	Sampling Date:	10/31/2019
Reported:	11/04/2019	Sampling Type:	Soil
Project Name:	SAND DUNES 34 #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-		

**Sample ID: BOTTOM 13 (H903730-13)**

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	11/01/2019	ND	1.82	90.9	2.00	2.81		
Toluene*	<0.050	0.050	11/01/2019	ND	1.81	90.6	2.00	3.19		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.85	92.4	2.00	2.61		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.52	91.9	6.00	2.43		
Total BTEX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>64.0</b>	16.0	11/01/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/01/2019	ND	225	112	200	1.60		
<b>DRO &gt;C10-C28*</b>	<b>17.5</b>	10.0	11/01/2019	ND	226	113	200	2.40		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 65.4 % 41-142

Surrogate: 1-Chlorooctadecane 71.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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:	11/01/2019	Sampling Date:	10/31/2019
Reported:	11/04/2019	Sampling Type:	Soil
Project Name:	SAND DUNES 34 #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-		

**Sample ID: PASTURE 1 (H903730-14)**

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	11/01/2019	ND	1.82	90.9	2.00	2.81		
Toluene*	<0.050	0.050	11/01/2019	ND	1.81	90.6	2.00	3.19		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.85	92.4	2.00	2.61		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.52	91.9	6.00	2.43		
Total BTEX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>64.0</b>	16.0	11/01/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/01/2019	ND	222	111	200	3.50		
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	221	111	200	2.54		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 86.3 % 41-142

Surrogate: 1-Chlorooctadecane 87.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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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:	11/01/2019	Sampling Date:	10/31/2019
Reported:	11/04/2019	Sampling Type:	Soil
Project Name:	SAND DUNES 34 #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY-		

**Sample ID: PASTURE 2 (H903730-15)**

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	11/01/2019	ND	1.82	90.9	2.00	2.81		
Toluene*	<0.050	0.050	11/01/2019	ND	1.81	90.6	2.00	3.19		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.85	92.4	2.00	2.61		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.52	91.9	6.00	2.43		
Total BTEX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>80.0</b>	16.0	11/01/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/01/2019	ND	222	111	200	3.50		
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	221	111	200	2.54		
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND						

Surrogate: 1-Chlorooctane 88.3 % 41-142

Surrogate: 1-Chlorooctadecane 89.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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### 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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A handwritten signature in black ink that reads "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager

61 Jo 81 e6d



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

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

1 of 2

Company Name: BBC International, Inc.		<b>BILL TO</b>		ANALYSIS REQUEST																																																																																																																	
Project Manager: Cliff Brunson		P.O. #:																																																																																																																			
Address: P.O. Box 805		Company:																																																																																																																			
City: Hobbs		Attn:																																																																																																																			
State: NIM Zip: 88241		Address:																																																																																																																			
Phone #: 575-397-6388		City:																																																																																																																			
Fax #: 575-397-0397		State:																																																																																																																			
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Sample Name:		FOR LAB USE ONLY																																																																																																																			
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<table border="1"> <thead> <tr> <th>Lab I.D.</th> <th>Sample I.D.</th> <th>(G)RAB OR (C)OMP.</th> <th># CONTAINERS</th> <th>MATRIX</th> <th>PRESERV.</th> <th>SAMPLING</th> <th>DATE</th> <th>TIME</th> <th>ANALYSIS</th> </tr> </thead> <tbody> <tr> <td>4995230</td> <td>1</td> <td>G</td> <td>1</td> <td>GROUNDWATER</td> <td></td> <td></td> <td>10-31-19</td> <td>1000</td> <td>TPH EXT</td> </tr> <tr> <td></td> <td>2</td> <td>G</td> <td>1</td> <td>WASTEWATER</td> <td></td> <td></td> <td>10-31-19</td> <td>1010</td> <td>BTEX</td> </tr> <tr> <td></td> <td>3</td> <td>G</td> <td>1</td> <td>SOIL</td> <td></td> <td></td> <td>10-31-19</td> <td>1070</td> <td>CL-</td> </tr> <tr> <td></td> <td>4</td> <td>G</td> <td>1</td> <td>OIL</td> <td></td> <td></td> <td>10-31-19</td> <td>1030</td> <td></td> </tr> <tr> <td></td> <td>5</td> <td>G</td> <td>1</td> <td>SLUDGE</td> <td></td> <td></td> <td>10-31-19</td> <td>1040</td> <td></td> </tr> <tr> <td></td> <td>6</td> <td>G</td> <td>1</td> <td>OTHER :</td> <td></td> <td></td> <td>10-31-19</td> <td>1050</td> <td></td> </tr> <tr> <td></td> <td>7</td> <td>G</td> <td>1</td> <td>ACID/BASE:</td> <td></td> <td></td> <td>10-31-19</td> <td>1100</td> <td></td> </tr> <tr> <td></td> <td>8</td> <td>G</td> <td>1</td> <td>ICE / COOL</td> <td></td> <td></td> <td>10-31-19</td> <td>1110</td> <td></td> </tr> <tr> <td></td> <td>9</td> <td>G</td> <td>1</td> <td>OTHER :</td> <td></td> <td></td> <td>10-31-19</td> <td>1120</td> <td></td> </tr> <tr> <td></td> <td>10</td> <td>G</td> <td>1</td> <td></td> <td></td> <td></td> <td>10-31-19</td> <td>1130</td> <td></td> </tr> </tbody> </table>		Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	ANALYSIS	4995230	1	G	1	GROUNDWATER			10-31-19	1000	TPH EXT		2	G	1	WASTEWATER			10-31-19	1010	BTEX		3	G	1	SOIL			10-31-19	1070	CL-		4	G	1	OIL			10-31-19	1030			5	G	1	SLUDGE			10-31-19	1040			6	G	1	OTHER :			10-31-19	1050			7	G	1	ACID/BASE:			10-31-19	1100			8	G	1	ICE / COOL			10-31-19	1110			9	G	1	OTHER :			10-31-19	1120			10	G	1				10-31-19	1130		RECEIVED BY: <i>Remyer Bell</i> DATE: 10-31-19 TIME: 8:00		RECEIVED BY: <i>Juanita White</i> DATE: 11-1-19 TIME: 8:55		CHECKED BY: <i>RUSH</i> (Initials)	
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RELINQUISHED BY: <i>Roger Hernandez</i> DATE: 10-31-19 TIME: 8:00		RELINQUISHED BY: <i>R. C. White</i> DATE: 11-1-19 TIME: 8:55		DELIVERED BY: <i>R. C. White</i> DATE: 11-1-19 TIME: 8:55																																																																																																																	
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



Form C-141  
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State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	2RP-5241
Facility ID	
Application ID	

### Closure

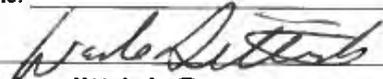
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Title: Environmental Coordinator

Signature:  Date: 11-11-19  
 email: wade\_dittrich@oxy.com Telephone: (575) 390-2828

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_