

**Closure Report****1CVWL-190806-C-1440****Site Description**

Site Name:	Christopher Federal 2 CTB
Company:	Oxy USA Inc.
Legal Description:	U/L H, Section 31, T23S, R31E
County:	Eddy County, NM
GPS Coordinates:	N 32.26272 W-103.80942

**Release Data**

Date of Release:	11/14/18
Type of Release:	Oil
Source of Release:	Fatigue of circulating pump caused small leak
Volume of Release:	5.4 bbls
Volume Recovered:	0 bbls

**Remediation Specifications**

Remediation Parameters:	Excavated the entire leak area to a depth of 1 foot. Obtained bottom confirmation samples. Backfilled the site with clean soil.	
Remediation Activities:	7/2/19 to 7/12/19	
Plan Sent to OCD:	2/21/19	Email from Cliff Brunson to Victoria Venegas
OCD Approval of Plan:	2/26/19	Email from Victoria Venegas to Cliff Brunson
Plan Sent to BLM:	2/21/19	Email from Cliff Brunson to Jim Amos
BLM Approval of Plan:	6/13/19	Email from Jim Amos to Cliff Brunson

**Supporting Documentation**

Initial C-141	Signed 1/9/19
C-141, page 6	Signed and included
Site Diagram	January 2019
Pictures	Remediation pictures prior to and after 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.

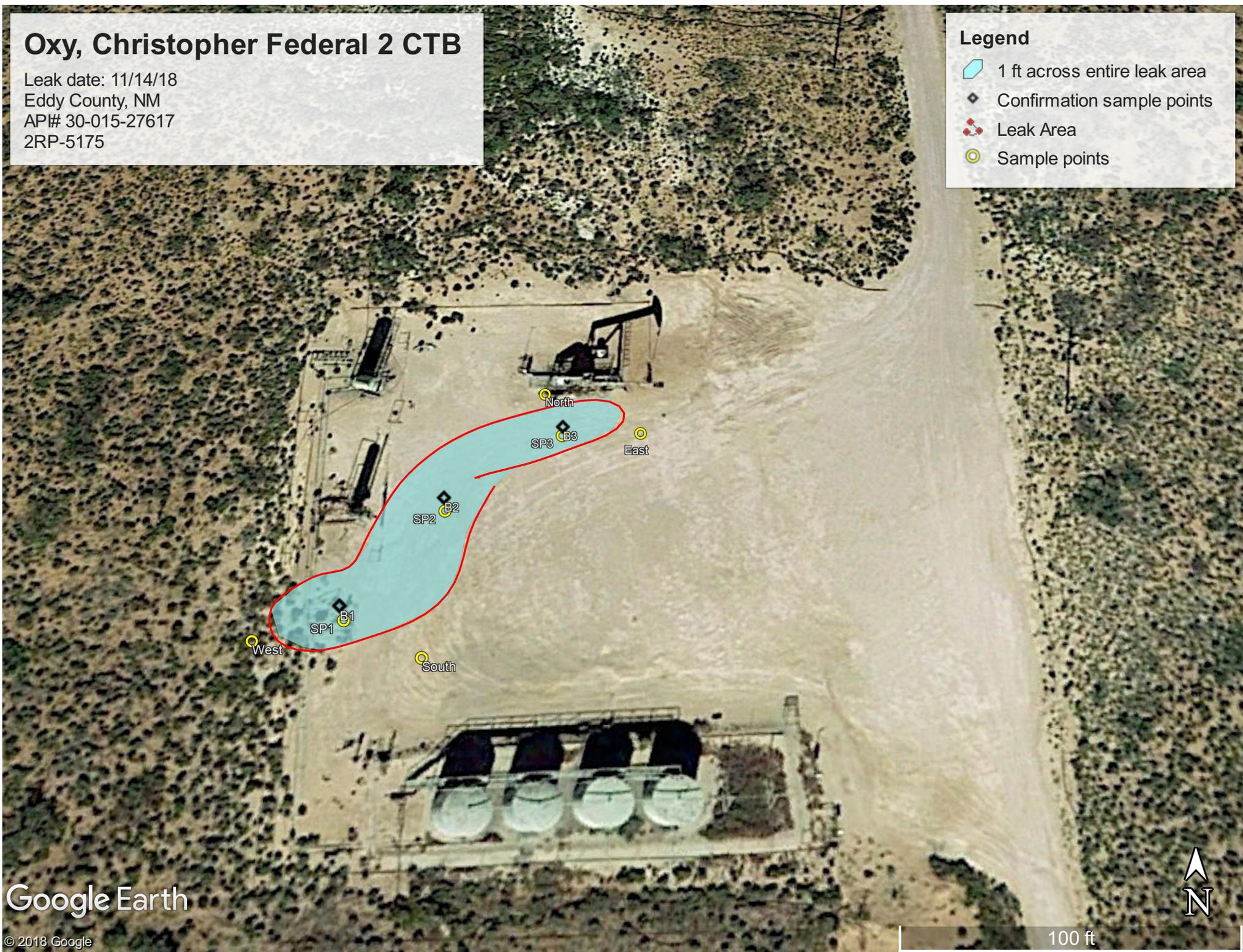
07/17/2019

# Oxy, Christopher Federal 2 CTB

Leak date: 11/14/18  
Eddy County, NM  
API# 30-015-27617  
2RP-5175

## Legend

-  1 ft across entire leak area
-  Confirmation sample points
-  Leak Area
-  Sample points



Oxy, Christopher Federal 2 CTB

Sample points:

SP1, N 32.26247 W-103.80975

SP2, N 32.26258 W-103.80965

SP3, N 32.26267 W-103.80952

NORTH, N 32.26271 W-103.80954

SOUTH, N 32.26244 W-103.80966

EAST, N 32.26267 W-103.80943

WEST, N 32.26245 W-103.80984

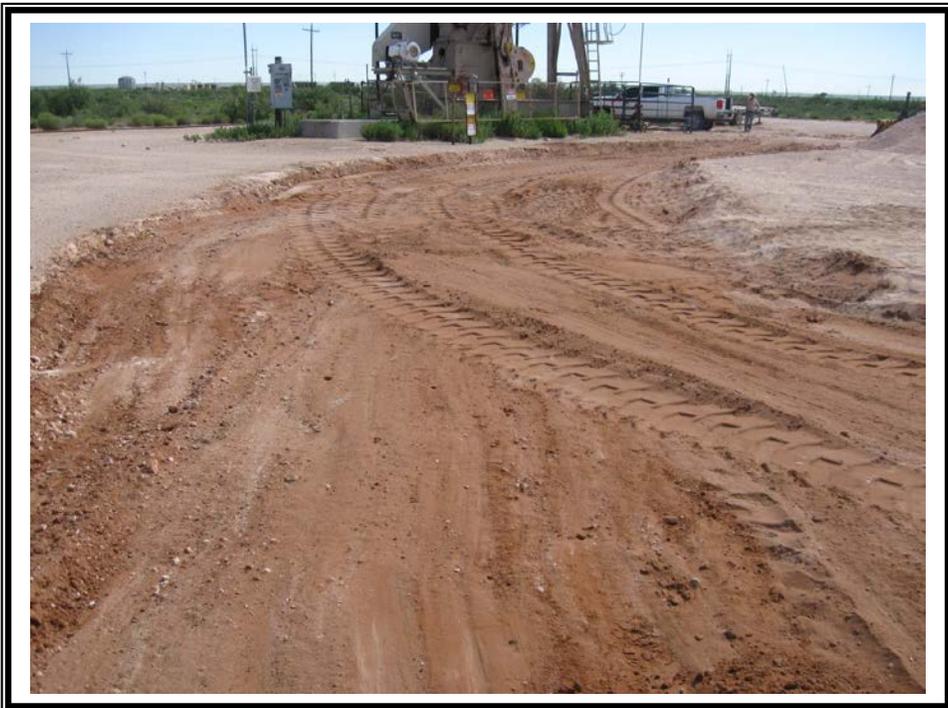
Confirmation sample points

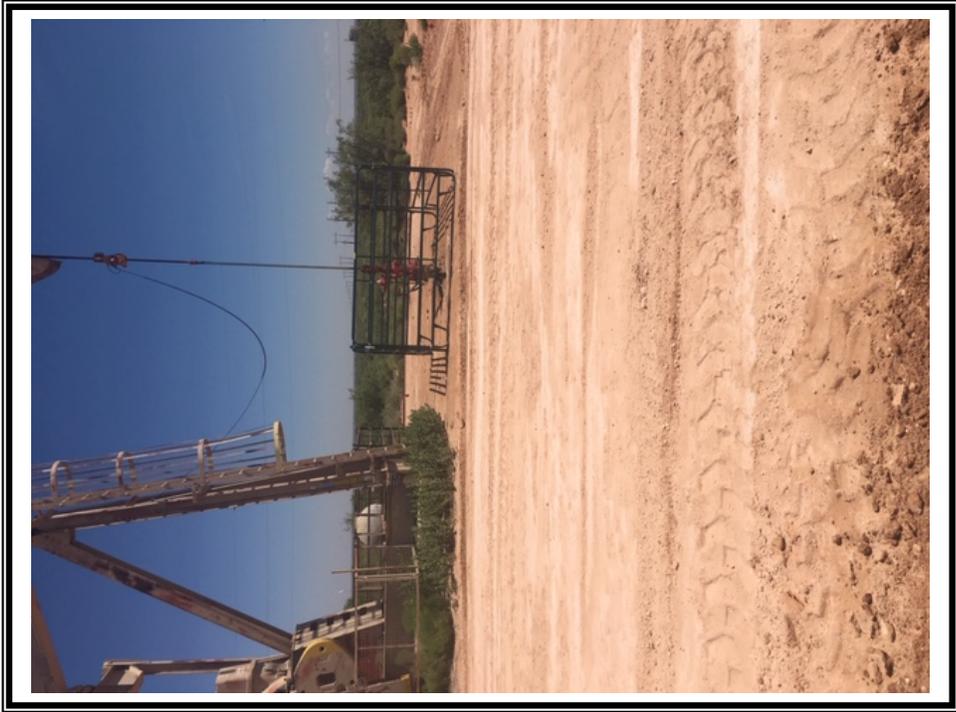
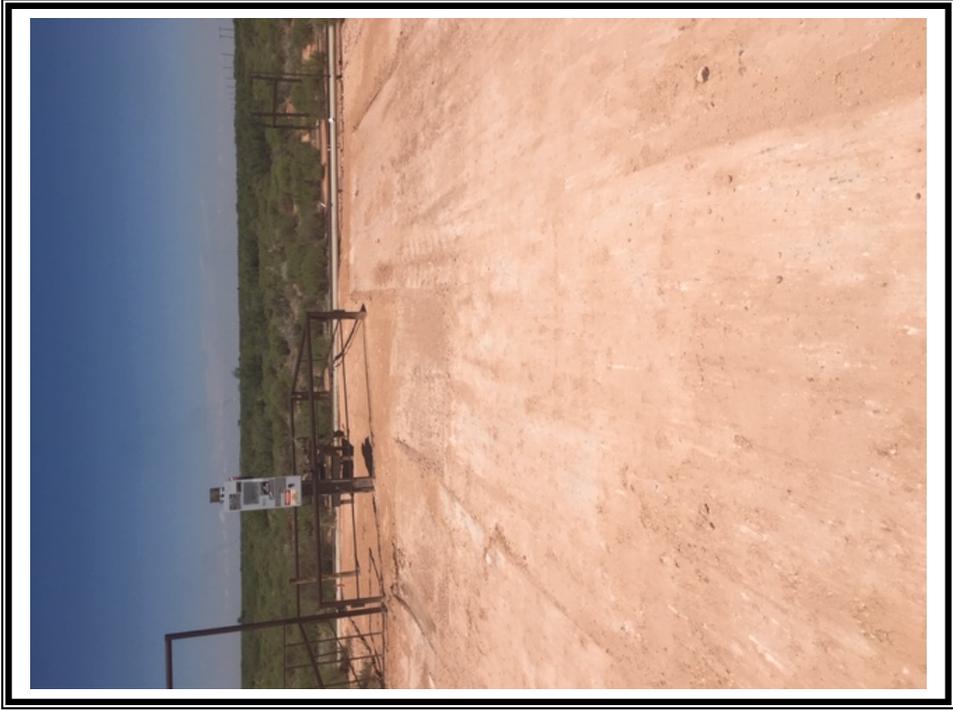
B1, N 32.26248 W-103.80975

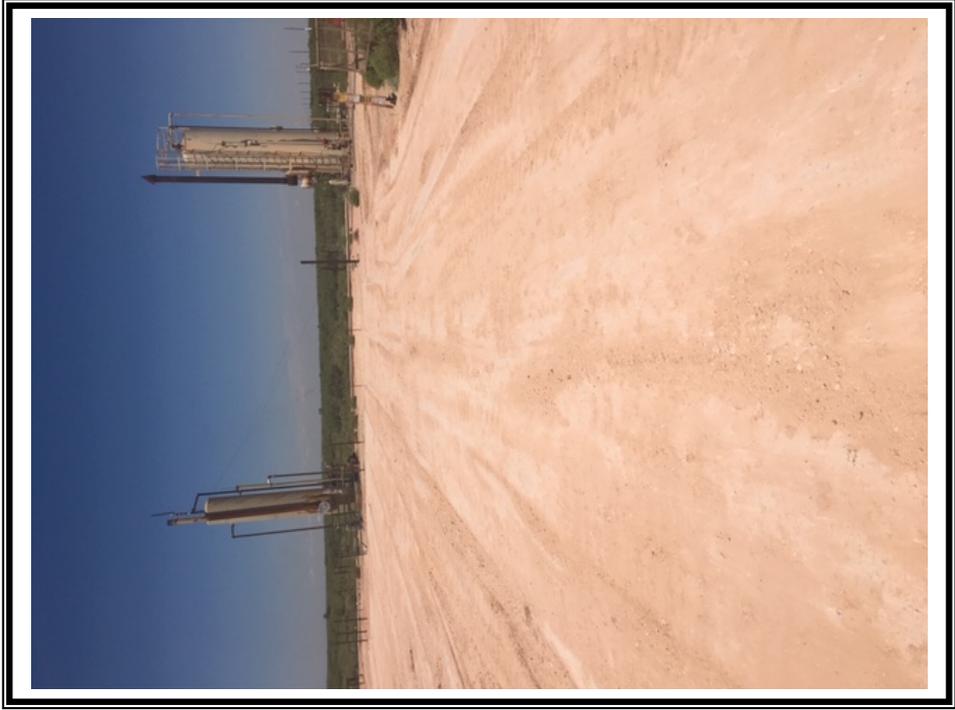
B2, N 32.26260 W-103.80965

B3, N 32.26268 W-103.80952









Laboratory Analytical Results Summary  
 Christopher Federal #2 CTB (11/14/18)

		Sample ID	BOTTOM 1
Analyte	Method	Date	7/3/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		<16.0
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	BOTTOM 2
Analyte	Method	Date	7/3/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		<16.0
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	BOTTOM 3
Analyte	Method	Date	7/3/19
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		<16.0
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0



July 05, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CHRISTOPHER FEDERAL #2 CTB

Enclosed are the results of analyses for samples received by the laboratory on 07/03/19 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive.

Mike Snyder For 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:	07/03/2019	Sampling Date:	07/03/2019
Reported:	07/05/2019	Sampling Type:	Soil
Project Name:	CHRISTOPHER FEDERAL #2 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - EDDY CO NM		

**Sample ID: BOTTOM 1 (H902294-01)**

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	07/04/2019	ND	1.66	82.9	2.00	2.61		
Toluene*	<0.050	0.050	07/04/2019	ND	1.76	88.1	2.00	2.88		
Ethylbenzene*	<0.050	0.050	07/04/2019	ND	1.72	85.8	2.00	2.61		
m,p-Xylene*	<0.100	0.100	07/04/2019							
o-Xylene*	<0.050	0.050	07/04/2019							
Total Xylenes*	<0.150	0.150	07/04/2019	ND	5.23	87.1	6.00	3.57		
Total BTEX	<0.300	0.300	07/04/2019	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	
Chloride	<16.0	16.0	07/04/2019	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	07/04/2019	ND	197	98.7	200	2.49		
DRO >C10-C28*	<10.0	10.0	07/04/2019	ND	199	99.3	200	0.396		
EXT DRO >C28-C36	<10.0	10.0	07/04/2019	ND						

Surrogate: 1-Chlorooctane 123 % 41-142

Surrogate: 1-Chlorooctadecane 125 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For 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:	07/03/2019	Sampling Date:	07/03/2019
Reported:	07/05/2019	Sampling Type:	Soil
Project Name:	CHRISTOPHER FEDERAL #2 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - EDDY CO NM		

**Sample ID: BOTTOM 2 (H902294-02)**

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	07/04/2019	ND	1.66	82.9	2.00	2.61		
Toluene*	<0.050	0.050	07/04/2019	ND	1.76	88.1	2.00	2.88		
Ethylbenzene*	<0.050	0.050	07/04/2019	ND	1.72	85.8	2.00	2.61		
m,p-Xylene*	<0.100	0.100	07/04/2019							
o-Xylene*	<0.050	0.050	07/04/2019							
Total Xylenes*	<0.150	0.150	07/04/2019	ND	5.23	87.1	6.00	3.57		
Total BTEX	<0.300	0.300	07/04/2019	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	
Chloride	<16.0	16.0	07/04/2019	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	07/04/2019	ND	197	98.7	200	2.49		
DRO >C10-C28*	<10.0	10.0	07/04/2019	ND	199	99.3	200	0.396		
EXT DRO >C28-C36	<10.0	10.0	07/04/2019	ND						

Surrogate: 1-Chlorooctane 112 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For 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:	07/03/2019	Sampling Date:	07/03/2019
Reported:	07/05/2019	Sampling Type:	Soil
Project Name:	CHRISTOPHER FEDERAL #2 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY - EDDY CO NM		

**Sample ID: BOTTOM 3 (H902294-03)**

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	07/04/2019	ND	1.66	82.9	2.00	2.61		
Toluene*	<0.050	0.050	07/04/2019	ND	1.76	88.1	2.00	2.88		
Ethylbenzene*	<0.050	0.050	07/04/2019	ND	1.72	85.8	2.00	2.61		
m,p-Xylene*	<0.100	0.100	07/04/2019							
o-Xylene*	<0.050	0.050	07/04/2019							
Total Xylenes*	<0.150	0.150	07/04/2019	ND	5.23	87.1	6.00	3.57		
Total BTEX	<0.300	0.300	07/04/2019	ND						

*Surrogate: 4-Bromofluorobenzene (PID)*      98.5 %      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	<16.0	16.0	07/04/2019	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	07/04/2019	ND	197	98.7	200	2.49		
DRO >C10-C28*	<10.0	10.0	07/04/2019	ND	199	99.3	200	0.396		
EXT DRO >C28-C36	<10.0	10.0	07/04/2019	ND						

*Surrogate: 1-Chlorooctane*      110 %      41-142

*Surrogate: 1-Chlorooctadecane*      113 %      37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For 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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Mike Snyder For 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**

1 of 1

Company Name: <b>BBC International, Inc.</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
Project Manager: <b>Cliff Brunson</b>		P.O. #:		Company:	
Address: <b>P.O. Box 805</b>		Attn:		Address:	
City: <b>Hobbs</b>		State: <b>NM</b>		Zip: <b>88241</b>	
Phone #: <b>575-397-6388</b>		Fax #: <b>575-397-0397</b>		Address:	
Project #:		Project Owner: <b>OKY</b>		City:	
Project Name: <b>CHRISTOPHER FEO 2 CTB</b>		State:		Zip:	
Project Location:		Phone #:		Fax #:	
Sampler Name: <b>ROGER HEINZDOERZ</b>		MATRIX		PRESERV	
FOR LAB USE ONLY		# CONTAINERS		SAMPLING	
Lab I.D. <b>Sample I.D.</b>		(G)RAB OR (C)OMP.		DATE	
#902294		1		7-3-19 1105	
1 Bottom 1		1		7-3-19 1110	
2 Bottom 2		1		7-3-19 1120	
3 Bottom 3		1		7-3-19 1120	
Relinquished By:		Received By:		Phone Result:	
Roger Heinzdoerz		Cliff Brunson		Yes <input type="checkbox"/> No <input type="checkbox"/>	
Date: 7-3-19		Date:		Add'l Phone #:	
Time: 2:00		Time:		Add'l Fax #:	
Relinquished By:		Received By:		REMARKS:	
Roger Heinzdoerz		Cliff Brunson		RUSH !!	
Date:		Date:		Add'l Phone #:	
Time:		Time:		Add'l Fax #:	
Delivered By: (Circle One)		Sample Condition		CHECKED BY:	
Sampler - UPS - Bus - Other:		Cool <input type="checkbox"/> Intact <input type="checkbox"/>		(Initials)	
-3.6e / #97		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		[Signature]	

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

Incident ID	
District RP	2RP-5175
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: 7-17-19

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: \_\_\_\_\_