

Closure Report

Site Description

Site Name:	Cedar Canyon 15 1 WTF South
Company:	Oxy USA Inc.
Legal Description:	U/L K, Section 15, T24S, R29E
County:	Eddy County, NM
GPS Coordinates:	N 32.21560 W-103.97514

Release Data

Date of Release:	8/15/18
Type of Release:	Produced water
Source of Release:	Transfer pump seal caused leak between AST Cluster
Volume of Release:	25 bbls
Volume Recovered:	20 bbls

Remediation Specifications

Remediation Parameters:	Excavate the areas of SP1 & SP2 to a depth of 1 foot. Excavate the area of SP3 to a depth of 4 feet. Obtain bottom confirmation samples. Backfill the site with clean soil.	
Remediation Activities:	10/1/19 to 10/21/19	
Plan Sent to OCD:	6/28/19	Email from Cliff Brunson to NMOCD
OCD Approval of Plan:	7/2/19	Email from Robert Hamlet to Cliff Brunson
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

Supporting Documentation

Initial C-141	Signed 11/2/18
C-141, page 6	Signed and included
Site Diagram	September 2018
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.

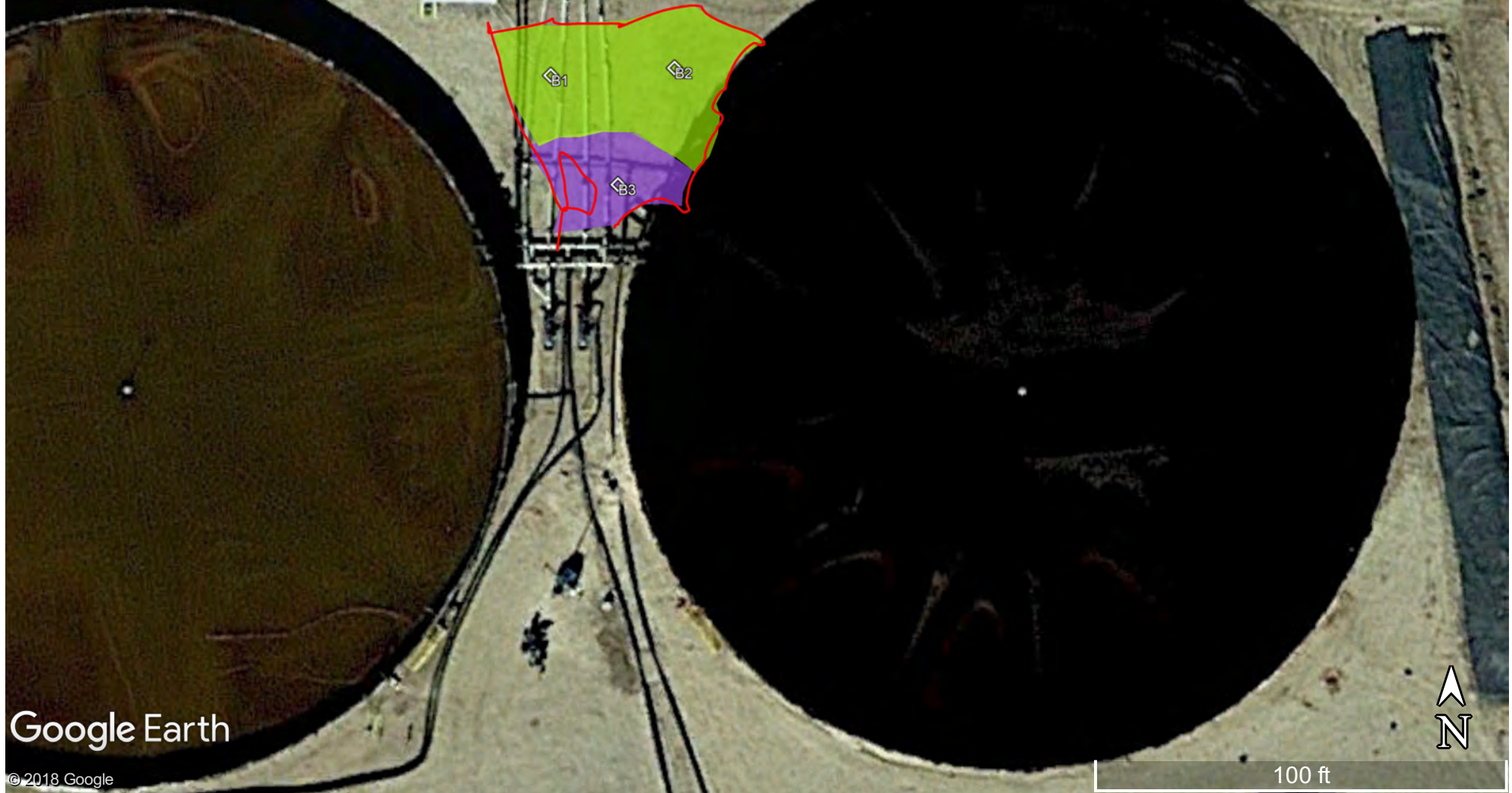
10/29/2019

Oxy, Cedar Canyon 15 1 WTF South

Leak date: 8/15/18
Eddy County, NM
2RP-5037

Legend

-  3 ft Excavation
-  6 in Excavation
-  Confirmation samples
-  Leak Area South



Oxy, Cedar Canyon 15 1 WTF South

Confirmation Sample points

B1, N 32.21555 W-103.97518

B2, N 32.21556 W-103.97508

B3, N 32.21547 W-103.97512





Laboratory Analytical Results Summary
Cedar Canyon 15 1 WTF South (8/15/18)

		Sample ID	BOTTOM 1
Analyte	Method	Date	10/7/19
			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
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	BOTTOM 2
Analyte	Method	Date	10/7/19
			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
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	BOTTOM 3
Analyte	Method	Date	10/7/19
			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
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0



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

October 09, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON 15-1 WTF

Enclosed are the results of analyses for samples received by the laboratory on 10/08/19 11:50.

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/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



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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: 10/08/2019
 Reported: 10/09/2019
 Project Name: CEDAR CANYON 15-1 WTF
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/07/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 1 (H903413-01)

BTEX 8021B			mg/kg	Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2019	ND	1.87	93.3	2.00	0.838		
Toluene*	<0.050	0.050	10/08/2019	ND	1.84	92.0	2.00	0.0585		
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	1.82	91.1	2.00	0.907		
Total Xylenes*	<0.150	0.150	10/08/2019	ND	5.47	91.1	6.00	0.463		
Total BTEX	<0.300	0.300	10/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 84.3 % 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	10/08/2019	ND	400	100	400	7.69		

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	10/09/2019	ND	217	109	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/09/2019	ND	213	107	200	0.704	
EXT DRO >C28-C36	<10.0	10.0	10/09/2019	ND					

Surrogate: 1-Chlorooctane 92.9 % 41-142

Surrogate: 1-Chlorooctadecane 94.0 % 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:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15-1 WTF	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: BOTTOM 2 (H903413-02)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2019	ND	1.87	93.3	2.00	0.838	
Toluene*	<0.050	0.050	10/08/2019	ND	1.84	92.0	2.00	0.0585	
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	1.82	91.1	2.00	0.907	
Total Xylenes*	<0.150	0.150	10/08/2019	ND	5.47	91.1	6.00	0.463	
Total BTEX	<0.300	0.300	10/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.0 % 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	10/08/2019	ND	400	100	400	7.69	

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	10/09/2019	ND	217	109	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/09/2019	ND	213	107	200	0.704	
EXT DRO >C28-C36	<10.0	10.0	10/09/2019	ND					

Surrogate: 1-Chlorooctane 90.4 % 41-142

Surrogate: 1-Chlorooctadecane 92.1 % 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:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15-1 WTF	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

Sample ID: BOTTOM 3 (H903413-03)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2019	ND	1.87	93.3	2.00	0.838	
Toluene*	<0.050	0.050	10/08/2019	ND	1.84	92.0	2.00	0.0585	
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	1.82	91.1	2.00	0.907	
Total Xylenes*	<0.150	0.150	10/08/2019	ND	5.47	91.1	6.00	0.463	
Total BTEX	<0.300	0.300	10/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 80.3 % 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	10/08/2019	ND	400	100	400	7.69	

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	10/09/2019	ND	217	109	200	1.33	
DRO >C10-C28*	<10.0	10.0	10/09/2019	ND	213	107	200	0.704	
EXT DRO >C28-C36	<10.0	10.0	10/09/2019	ND					

Surrogate: 1-Chlorooctane 94.3 % 41-142

Surrogate: 1-Chlorooctadecane 95.2 % 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

Page 6 of 6



ORDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

Rush!! added 10/8/19 @ 13:10pm

Form C-141

Page 6

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-5037
Facility ID	
Application ID	

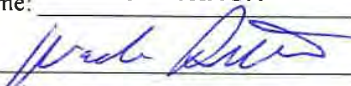
Closure

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 OCD 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: 10/29/19
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: _____