

Closure Report

Site Description

Site Name:	Cedar Canyon 15 Fed Com #5H
Company:	Oxy Permian Ltd.
Legal Description:	U/L D, Section 15, T24S, R29E
County:	Eddy County, NM
GPS Coordinates:	N 32.22168° W 103.98029°

Release Data

Date of Release:	05/28/2015
Type of Release:	Oil and produced water
Source of Release:	Broken water pump coupling caused water tanks to spill over
Volume of Release:	40 bbls oil, 100 bbls produced water
Volume Recovered:	100 bbls

Remediation Specifications

Remediation Parameters:	Excavate to a depth of 1 foot across the entire leak area. Backfill the site with clean soil.
Remediation Activities:	December 2015

Plan Sent to OCD:	08/10/2015	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	08/19/2015	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	08/10/2015	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	08/19/2015	Email from Shelly Tucker to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 06/08/2015
Final C-141	Signed 04/27/2016
Site Diagram	June 2015
Groundwater Plot	100'-125'
TOPO Maps	June 2015
Lab Summary	06/17/2015
Lab Analysis	06/17/2015
Correspondence	Request and approval of remediation plan via email

Request for Closure

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

Cliff Brunson, President of BBC International Inc.

05/02/2016

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(432) 685-5824
Facility Name	Cedar Canyon 15 Fed Com #5H	Facility Type	Satellite
Surface Owner	BLM	Mineral Owner	
		API No.	30-15-42421

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	15	24S	29E					Eddy County, NM

Latitude N 32.22168° Longitude W 103.98029°

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	40 bbls oil, 100 bbls produced water	Volume Recovered	100 bbls
Source of Release	A broken water pump coupling caused the water tanks to spill over	Date and Hour of Occurrence	05/28/2015	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher, Heather Patterson- NMOCD; James Amos- BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	05/29/2015 @ 10:02am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*


Describe Cause of Problem and Remedial Action Taken.*

A broken water pump coupling caused the water tanks to spill 40 bbls of oil and 100 bbls of produced water onto the ground. A vacuum truck recovered 100 bbls of fluids and the coupling was replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 100' x 45' with most of the leak staying on location. Remediation will be completed in accordance with a remediation plan approved by NMOCD and the BLM.

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

Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Chancey Summers		Approved by Environmental Specialist:	
Title: HES Lead	Approval Date:	Expiration Date:	
E-mail Address: Chancey_Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 6-18-15	Phone: (432) 685-5824		

* Attach Additional Sheets If Necessary

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1625 N. French Dr., Hobbs, NM 88240
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District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	Cedar Canyon 15 Fed Com #5H	Facility Type	Satellite
Surface Owner	BLM	Mineral Owner	
		API No.	30-15-42421

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	15	24S	29E					Eddy County, NM

Latitude N 32.22168° Longitude W 103.98029°

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	40 bbls oil, 100 bbls produced water	Volume Recovered	100 bbls
Source of Release	A broken water pump coupling caused the water tanks to spill over	Date and Hour of Occurrence	05/28/2015	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher, Heather Patterson- NMOCD; James Amos- BLM			
By Whom?	Kathy Purvis, BBC International	Date and Hour 05/29/2015 @ 10:02am			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

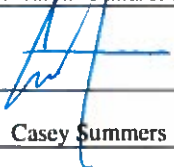
Describe Cause of Problem and Remedial Action Taken.*

A broken water pump coupling caused the water tanks to spill 40 bbls of oil and 100 bbls of produced water onto the ground. A vacuum truck recovered 100 bbls of fluids and the coupling was replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 100' x 45' with most of the leak staying on location. Remediation was completed in accordance with a remediation plan approved by Mike Bratcher of NMOCD via email on 08/19/2015 and Shelly Tucker of the BLM via email on 08/19/2015.

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

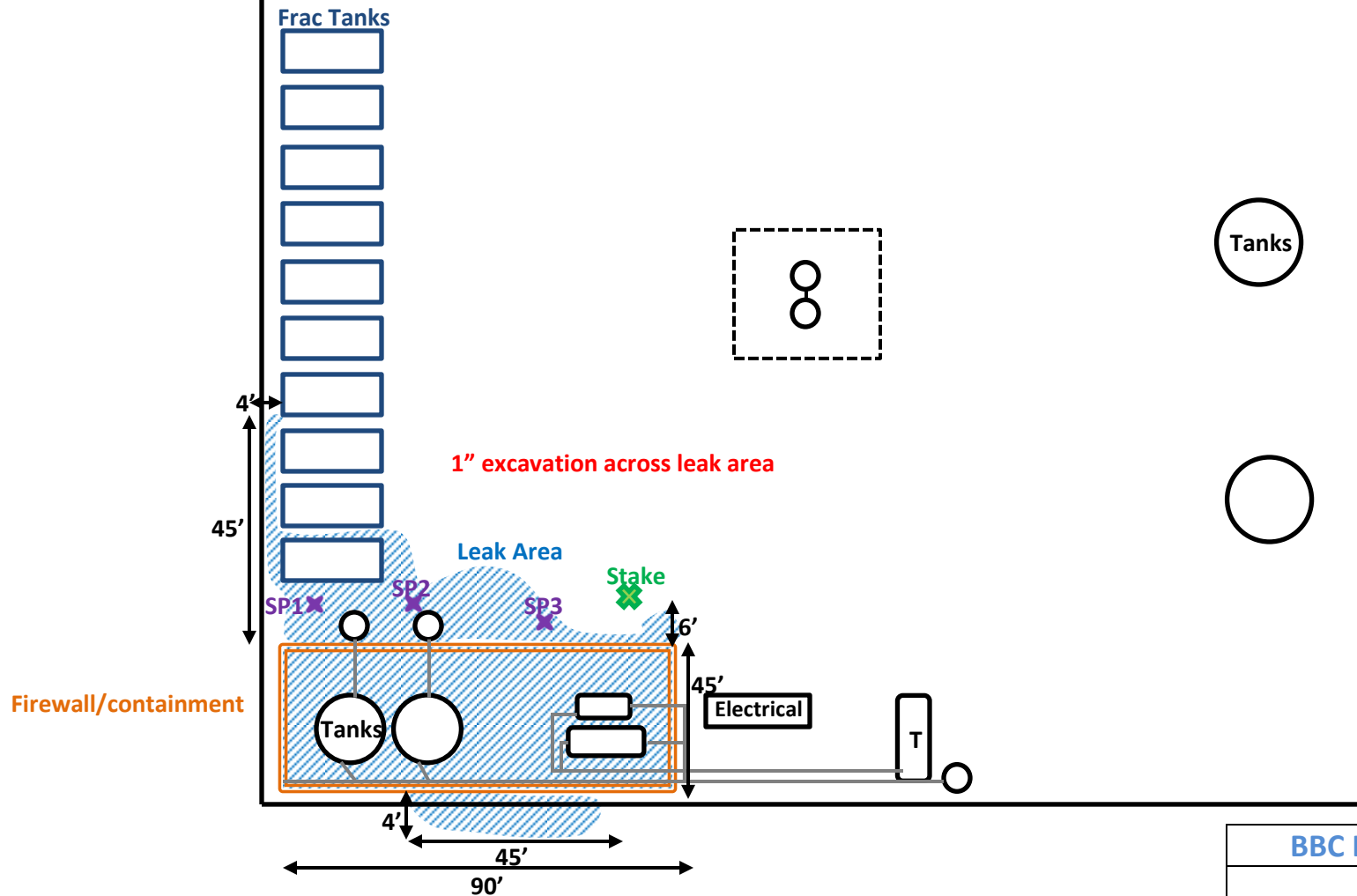
Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Casey Summers		Approved by Environmental Specialist:	
Title: NM Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: Casey_Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 4-27-16	Phone: (575) 513-8289		

* Attach Additional Sheets If Necessary



Oxy

Cedar Canyon 15 Fed Com #5H



NW ¼, Section 15, T24S, R29E
Eddy County, NM
N 32.22168° W 103.98029°
API# 30-015-42421

BBC International, Inc.

Oxy

Cedar Canyon 15 Fed Com #5H

Date: 06/10/2015

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2015



Groundwater Plot

Oxy Cedar Canyon 15 Fed Com #5H

County
Eddy

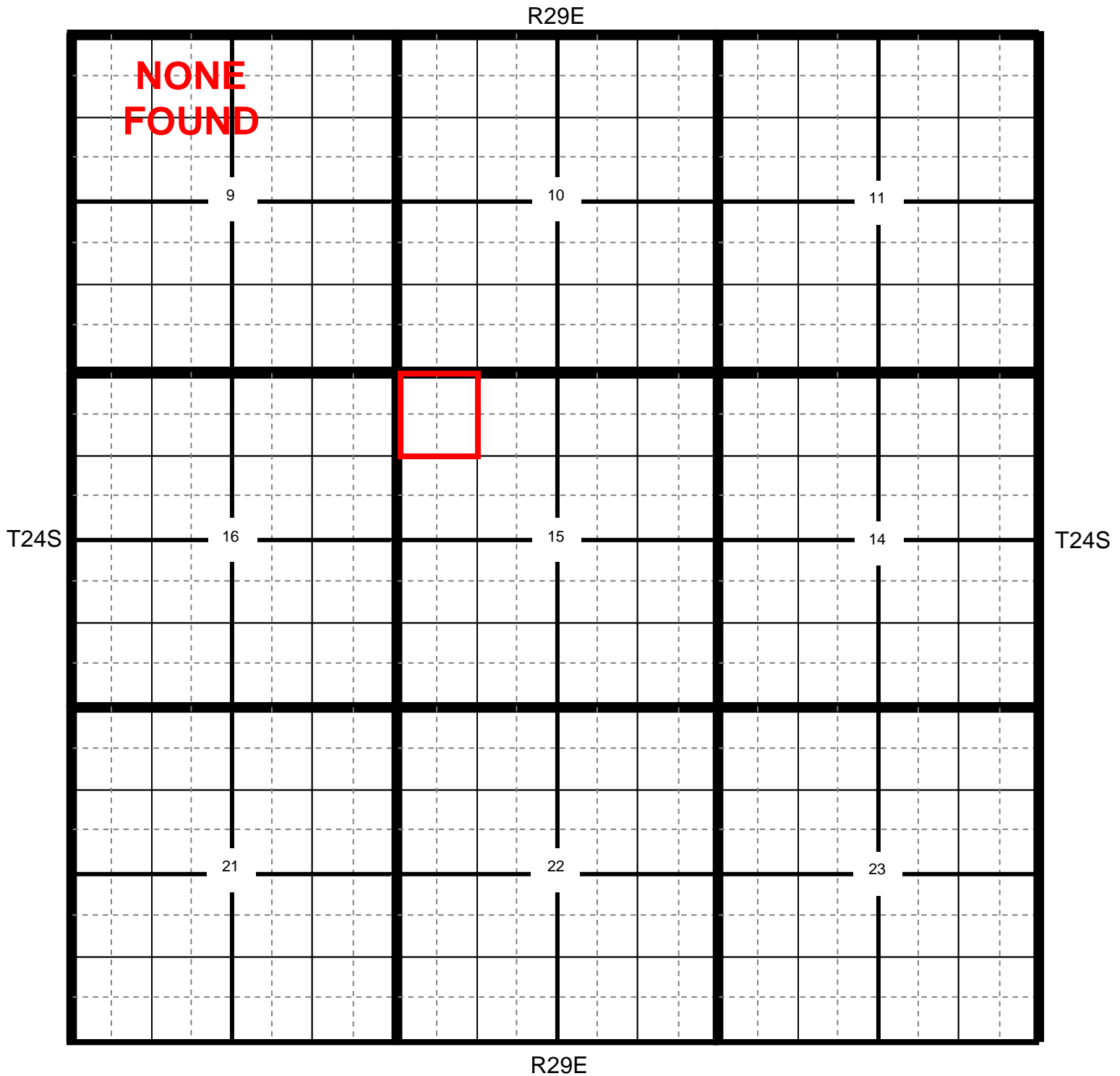
Unit Letter
D

Section
15

Township
24S

Range
29E

Trend Map 100'-125'



📍 Location

● OCD

● USGS

● SEO

● All Databases

Section Quarters

Oxy Cedar Canyon 15 Fed Com #5H

County Eddy
 Unit Letter D
 Section 15
 Township 24S
 Range 29E

Trend Map 100'-125'

1

2

NW/NW NONE FOUND Unit Letter D	NE/NW Unit Letter C	NW/NE Unit Letter B	NE/NE Unit Letter A
SW/NW Unit Letter E	SE/NW Unit Letter F	SW/NE Unit Letter G	SE/NE Unit Letter H
NW/SW Unit Letter L	NE/SW Unit Letter K	NW/SE Unit Letter J	NE/SE Unit Letter I
SW/SW Unit Letter M	SE/SW Unit Letter N	SW/SE Unit Letter O	SE/SE Unit Letter P

3

4

Oxy

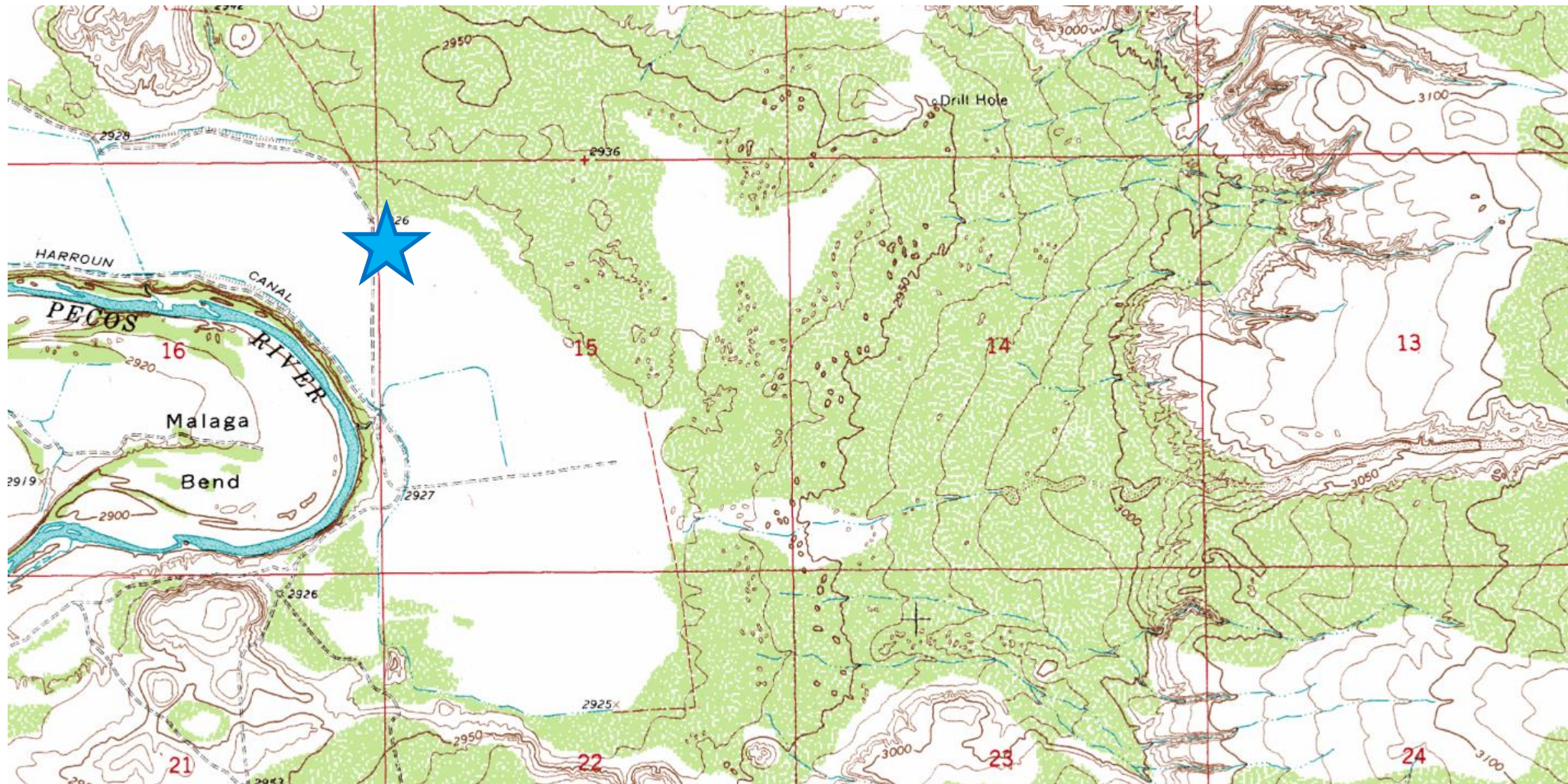
Cedar Canyon 15 Fed Com #5H



Oxy

Cedar Canyon 15

Fed Com #5H



**Laboratory Analytical Results Summary
Cedar Canyon 15 Fed Com #5H**

		Sample	SP1 @ Surface	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	6/17/15	6/17/15	6/17/15
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.255	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		26800	64	192
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		157	<10.0	<10.0

		Sample	SP2 @ Surface	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	6/17/15	6/17/15	6/17/15
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		6930	80	96
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		50.6	<10.0	<10.0

		Sample	SP3 @ Surface	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	6/17/15	6/17/15	6/17/15
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500Cl-B		26400	48	80
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		291	n/a	n/a



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

June 25, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON 15

Enclosed are the results of analyses for samples received by the laboratory on 06/19/15 14:35.

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: 06/19/2015
Reported: 06/25/2015
Project Name: CEDAR CANYON 15
Project Number: NONE GIVEN
Project Location: MALAGA, NM

Sampling Date: 06/17/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP1 @ SURFACE (H501596-01)

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	06/23/2015	ND	2.20	110	2.00	4.02	
Toluene*	<0.050	0.050	06/23/2015	ND	2.36	118	2.00	4.61	
Ethylbenzene*	<0.050	0.050	06/23/2015	ND	2.26	113	2.00	5.43	
Total Xylenes*	0.255	0.150	06/23/2015	ND	6.92	115	6.00	6.46	
Total BTX	<0.300	0.300	06/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26800	16.0	06/25/2015	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	06/22/2015	ND	179	89.3	200	0.355	
DRO >C10-C28	157	10.0	06/22/2015	ND	182	91.1	200	2.15	

Surrogate: 1-Chlorooctane 102 % 47.2-157

Surrogate: 1-Chlorooctadecane 131 % 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: 06/19/2015
Reported: 06/25/2015
Project Name: CEDAR CANYON 15
Project Number: NONE GIVEN
Project Location: MALAGA, NM

Sampling Date: 06/17/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP1 @ 1' (H501596-02)

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	06/23/2015	ND	2.20	110	2.00	4.02	
Toluene*	<0.050	0.050	06/23/2015	ND	2.36	118	2.00	4.61	
Ethylbenzene*	<0.050	0.050	06/23/2015	ND	2.26	113	2.00	5.43	
Total Xylenes*	<0.150	0.150	06/23/2015	ND	6.92	115	6.00	6.46	
Total BTX	<0.300	0.300	06/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 61-154

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	06/25/2015	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	06/22/2015	ND	179	89.3	200	0.355	
DRO >C10-C28	<10.0	10.0	06/22/2015	ND	182	91.1	200	2.15	

Surrogate: 1-Chlorooctane 102 % 47.2-157

Surrogate: 1-Chlorooctadecane 121 % 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: 06/19/2015
Reported: 06/25/2015
Project Name: CEDAR CANYON 15
Project Number: NONE GIVEN
Project Location: MALAGA, NM

Sampling Date: 06/17/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP1 @ 2' (H501596-03)

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	06/23/2015	ND	1.92	96.0	2.00	1.67	
Toluene*	<0.050	0.050	06/23/2015	ND	1.92	96.1	2.00	2.68	
Ethylbenzene*	<0.050	0.050	06/23/2015	ND	2.04	102	2.00	2.61	
Total Xylenes*	<0.150	0.150	06/23/2015	ND	5.67	94.4	6.00	2.49	
Total BTEx	<0.300	0.300	06/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/25/2015	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	06/23/2015	ND	179	89.3	200	0.355	
DRO >C10-C28	<10.0	10.0	06/23/2015	ND	182	91.1	200	2.15	

Surrogate: 1-Chlorooctane 114 % 47.2-157

Surrogate: 1-Chlorooctadecane 122 % 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: 06/19/2015
 Reported: 06/25/2015
 Project Name: CEDAR CANYON 15
 Project Number: NONE GIVEN
 Project Location: MALAGA, NM

 Sampling Date: 06/17/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP2 @ SURFACE (H501596-04)

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	06/23/2015	ND	1.92	96.0	2.00	1.67		
Toluene*	<0.050	0.050	06/23/2015	ND	1.92	96.1	2.00	2.68		
Ethylbenzene*	<0.050	0.050	06/23/2015	ND	2.04	102	2.00	2.61		
Total Xylenes*	<0.150	0.150	06/23/2015	ND	5.67	94.4	6.00	2.49		
Total BTEx	<0.300	0.300	06/23/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6930	16.0	06/25/2015	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	06/23/2015	ND	179	89.3	200	0.355	
DRO >C10-C28	50.6	10.0	06/23/2015	ND	182	91.1	200	2.15	

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 135 % 52.1-176

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/19/2015
Reported: 06/25/2015
Project Name: CEDAR CANYON 15
Project Number: NONE GIVEN
Project Location: MALAGA, NM

Sampling Date: 06/17/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP2 @ 1' (H501596-05)

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	06/23/2015	ND	1.92	96.0	2.00	1.67	
Toluene*	<0.050	0.050	06/23/2015	ND	1.92	96.1	2.00	2.68	
Ethylbenzene*	<0.050	0.050	06/23/2015	ND	2.04	102	2.00	2.61	
Total Xylenes*	<0.150	0.150	06/23/2015	ND	5.67	94.4	6.00	2.49	
Total BTEx	<0.300	0.300	06/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 61-154

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	06/25/2015	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	06/23/2015	ND	179	89.3	200	0.355	
DRO >C10-C28	<10.0	10.0	06/23/2015	ND	182	91.1	200	2.15	

Surrogate: 1-Chlorooctane 100 % 47.2-157

Surrogate: 1-Chlorooctadecane 121 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/19/2015
Reported: 06/25/2015
Project Name: CEDAR CANYON 15
Project Number: NONE GIVEN
Project Location: MALAGA, NM

Sampling Date: 06/17/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP2 @ 2' (H501596-06)

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	06/23/2015	ND	1.92	96.0	2.00	1.67	
Toluene*	<0.050	0.050	06/23/2015	ND	1.92	96.1	2.00	2.68	
Ethylbenzene*	<0.050	0.050	06/23/2015	ND	2.04	102	2.00	2.61	
Total Xylenes*	<0.150	0.150	06/23/2015	ND	5.67	94.4	6.00	2.49	
Total BTEx	<0.300	0.300	06/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/25/2015	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	06/23/2015	ND	179	89.3	200	0.355	
DRO >C10-C28	<10.0	10.0	06/23/2015	ND	182	91.1	200	2.15	

Surrogate: 1-Chlorooctane 104 % 47.2-157

Surrogate: 1-Chlorooctadecane 126 % 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: 06/19/2015
Reported: 06/25/2015
Project Name: CEDAR CANYON 15
Project Number: NONE GIVEN
Project Location: MALAGA, NM

Sampling Date: 06/17/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP3 @ SURFACE (H501596-07)

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	06/23/2015	ND	1.92	96.0	2.00	1.67	
Toluene*	<0.050	0.050	06/23/2015	ND	1.92	96.1	2.00	2.68	
Ethylbenzene*	<0.050	0.050	06/23/2015	ND	2.04	102	2.00	2.61	
Total Xylenes*	<0.150	0.150	06/23/2015	ND	5.67	94.4	6.00	2.49	
Total BTEx	<0.300	0.300	06/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26400	16.0	06/25/2015	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	06/23/2015	ND	179	89.3	200	0.355	
DRO >C10-C28	291	10.0	06/23/2015	ND	182	91.1	200	2.15	

Surrogate: 1-Chlorooctane 115 % 47.2-157

Surrogate: 1-Chlorooctadecane 142 % 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: 06/19/2015
 Reported: 06/25/2015
 Project Name: CEDAR CANYON 15
 Project Number: NONE GIVEN
 Project Location: MALAGA, NM

 Sampling Date: 06/17/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP3 @ 1' (H501596-08)

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	06/23/2015	ND	1.92	96.0	2.00	1.67		
Toluene*	<0.050	0.050	06/23/2015	ND	1.92	96.1	2.00	2.68		
Ethylbenzene*	<0.050	0.050	06/23/2015	ND	2.04	102	2.00	2.61		
Total Xylenes*	<0.150	0.150	06/23/2015	ND	5.67	94.4	6.00	2.49		
Total BTEx	<0.300	0.300	06/23/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/25/2015	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	06/23/2015	ND	179	89.3	200	0.355	
DRO >C10-C28	<10.0	10.0	06/23/2015	ND	182	91.1	200	2.15	

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 121 % 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: 06/19/2015
Reported: 06/25/2015
Project Name: CEDAR CANYON 15
Project Number: NONE GIVEN
Project Location: MALAGA, NM

Sampling Date: 06/17/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP3 @ 2' (H501596-09)

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	06/23/2015	ND	1.92	96.0	2.00	1.67	
Toluene*	<0.050	0.050	06/23/2015	ND	1.92	96.1	2.00	2.68	
Ethylbenzene*	<0.050	0.050	06/23/2015	ND	2.04	102	2.00	2.61	
Total Xylenes*	<0.150	0.150	06/23/2015	ND	5.67	94.4	6.00	2.49	
Total BTEx	<0.300	0.300	06/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 61-154

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	06/25/2015	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	06/23/2015	ND	179	89.3	200	0.355	
DRO >C10-C28	<10.0	10.0	06/23/2015	ND	182	91.1	200	2.15	

Surrogate: 1-Chlorooctane 100 % 47.2-157

Surrogate: 1-Chlorooctadecane 119 % 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

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

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Wednesday, August 19, 2015 9:54 AM
To: Cliff Brunson; Shelly Tucker; Patterson, Heather, EMNRD
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: OXY Cedar Canyon 15 Fed Com #5H - Remediation Plan

RE: OXY USA * Cedar Canyon 15 Fed Com 5H * 30-015-42421 * D-15-24s-29e * 2RP-3062
Date of release: 5/28/15

Cliff,

Your proposal for remediation of the above referenced release is approved. Please advise if proposed excavation depths are not achieved. Federal sites require like approval by BLM.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Cliff Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Monday, August 10, 2015 7:18 PM
To: Shelly Tucker; Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY Cedar Canyon 15 Fed Com #5H - Remediation Plan

Shelly and Mike,

On Wednesday, July 29, 2015, I was able to visit with both you about this site. I discussed the plan with Mike first, then met with Shelly later and both of you agreed to the same plan. Therefore, this e-mail is to confirm our discussion on Wednesday, July 29, 2015 concerning the remediation plan for the Oxy Cedar Canyon 15 Fed Com #5H. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon. This is a lined battery.

If you both would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
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E-Mail: cbrunson@bbcinternational.com

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Kathy Purvis

From: Tucker, Shelly <stucker@blm.gov>
Sent: Wednesday, August 19, 2015 11:32 AM
To: Bratcher, Mike, EMNRD
Cc: Cliff Brunson; Patterson, Heather, EMNRD; C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Re: OXY Cedar Canyon 15 Fed Com #5H - Remediation Plan

BLM accepts/approves your Work Plan.

The BLM approval does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
Bureau of Land Management

620 E. Greene St
Carlsbad, NM 88220

575.234.5905 - Direct
575.361.0084 - Cellular

stucker@blm.gov



On Wed, Aug 19, 2015 at 9:53 AM, Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us> wrote:

RE: OXY USA * Cedar Canyon 15 Fed Com 5H * 30-015-42421 * D-15-24s-29e * 2RP-3062

Date of release: 5/28/15

Cliff,

Your proposal for remediation of the above referenced release is approved. Please advise if proposed excavation depths are not achieved. Federal sites require like approval by BLM.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher

NMOCD District 2

811 S. First Street

Artesia, NM 88210

O: 575-748-1283 X108

C: 575-626-0857

F: 575-748-9720

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]

Sent: Monday, August 10, 2015 7:18 PM

To: Shelly Tucker; Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD

Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis

Subject: OXY Cedar Canyon 15 Fed Com #5H - Remediation Plan

Shelly and Mike,

On Wednesday, July 29, 2015, I was able to visit with both you about this site. I discussed the plan with Mike first, then met with Shelly later and both of you agreed to the same plan. Therefore, this e-mail is to confirm our discussion on Wednesday, July 29, 2015 concerning the remediation plan for the Oxy Cedar Canyon 15 Fed

Com #5H. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon. This is a lined battery.

If you both would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

BBC International, Inc.

World-Wide Environmental Specialists

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P. O. Box 805

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