

# Closure Report

## Site Description

Site Name:	Cedar Canyon 28 Federal #4 CTB
Company:	Oxy Permian Ltd.
Legal Description:	U/L K, Section 28, T24S, R29E
County:	Eddy County, NM
GPS Coordinates:	N 32.18625° W 103.99138°

## Release Data

Date of Release:	01/28/2014
Type of Release:	Oil and produced water
Source of Release:	High skim tank level causes fluid to go out skim tank line
Volume of Release:	10 bbls oil, 20 bbls produced water
Volume Recovered:	29 bbls

## Remediation Specifications

Remediation Parameters:	Excavate the areas around SP1 and SP2 to a depth of 2 feet and then install a clay liner. Excavate 1 foot in the area around SP3. Backfill the site with clean soil.
Remediation Activities:	03/03/2015 to 03/27/2015

Plan Sent to OCD:	04/01/2014	Meeting between C. Brunson and M. Bratcher
OCD Approval of Plan:	04/01/2014	Meeting between C. Brunson and M. Bratcher
Plan Sent to BLM:	04/21/2014	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	04/22/2014	Email from J. Van Curen to Cliff Brunson

## Supporting Documentation

Initial C-141	Signed 01/30/2014
Final C-141	Signed 04/21/2015
Site Diagram	February 2014
Groundwater Plot	75'
TOPO Maps	February 2014
Lab Summary	02/12/2014-02/13/2014
Lab Analysis	02/12/2014-02/13/2014
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.

04/22/2015

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

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	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	Cedar Canyon 28 Federal #4 SWD Battery	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	API No.30-015-29118(nearest well)

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	28	24S	29E					Eddy County, NM

Latitude N 32.18643° Longitude W 103.99157°

#### NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	10 bbls oil and 20 bbls produced water	Volume Recovered	29 bbls
Source of Release	High skim tank level causes fluid to go out skim tank line	Date and Hour of Occurrence	01/28/2014	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-NMOCD; Jennifer Van Curen- BLM		
By Whom?	Kathy Purvis	Date and Hour	01/29/2014 @ 2:34 pm		
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.\*

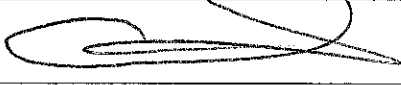
Describe Cause of Problem and Remedial Action Taken.\*

High skim tank level causes 10 bbls of oil and 20 bbls of produced water to leak onto the ground. 29 bbls of fluid were recovered via vacuum truck and the problem was corrected.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 30' x 30' 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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Chancey Summers	Approved by Environmental Specialist:	
Title: HES Specialist	Approval Date:	Expiration Date:
E-mail Address: <u>Chancey.Summers@oxy.com</u>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>1-30-14</u> Phone: (575) 397-8216		

\* Attach Additional Sheets If Necessary

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
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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	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Cedar Canyon 28 Federal #4 SWD Battery	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	
		API No.30-015-29118(nearest well)	

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	28	24S	29E					Eddy County, NM

Latitude N 32.18643° Longitude W 103.99157°

#### NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	10 bbls oil and 20 bbls produced water	Volume Recovered	29 bbls
Source of Release	High skim tank level causes fluid to go out skim tank line	Date and Hour of Occurrence	01/28/2014	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-NMOCD; Jennifer Van Curen- BLM		
By Whom?	Kathy Purvis	Date and Hour	01/29/2014 @ 2:34 pm		
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.\*

High skim tank level causes 10 bbls of oil and 20 bbls of produced water to leak onto the ground. 29 bbls of fluid were recovered via vacuum truck and the problem was corrected.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 30' x 30' on location. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via meeting on 04/01/2014 and approved by Jennifer Van Curen of the BLM via email on 04/22/2014.

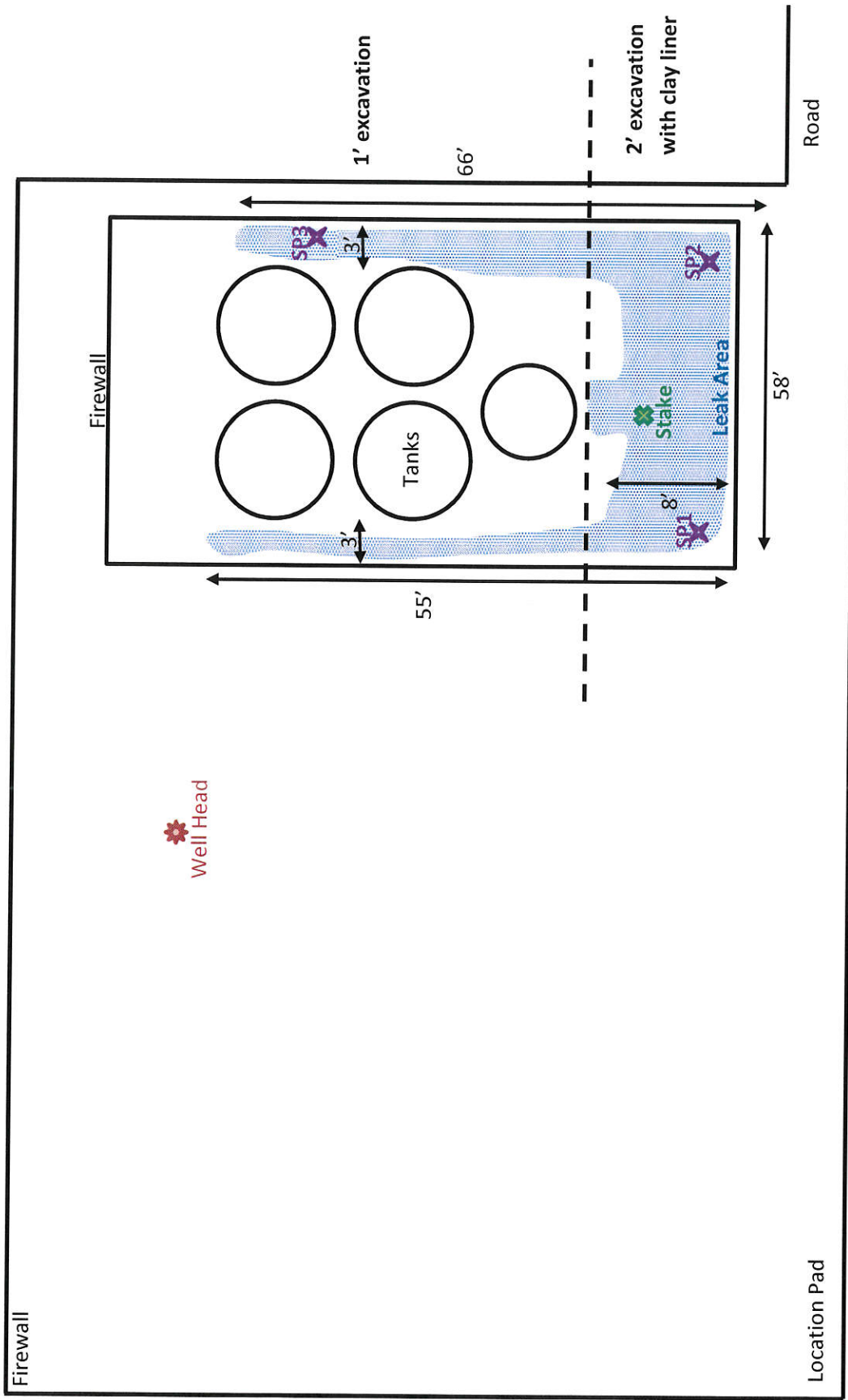
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: <b>Chris Jones</b>	Digitally signed by Chris Jones DN: cn=Chris Jones, o=ou, email=ckjones888@yahoo.com, c=US Date: 2015.04.21 11:29:10 -05'00'			<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Christopher Jones	Approved by Environmental Specialist:				
Title: HES Specialist	Approval Date:		Expiration Date:		
E-mail Address: <a href="mailto:Christopher.Jones@oxy.com">Christopher.Jones@oxy.com</a>	Conditions of Approval:			Attached <input type="checkbox"/>	
Date:	Phone: (575) 628-4121				

\* Attach Additional Sheets If Necessary



**Cedar Canyon 28 Federal #4 CTB**



U/L K, Section 28, T24S, R29E  
Eddy County, NM  
N 32.18625° W 103.99138°

<b>BBC International, Inc.</b>	
<b>Oxy</b>	
<b>Cedar Canyon 28 Federal #4 CTB</b>	
Date: 02/06/2014	DRWG by: K. Purvis
<i>NOT TO SCALE</i>	File: Oxy 2014



# Groundwater Plot

Oxy Cedar Canyon 28 Federal #4 CTB

County  
Eddy

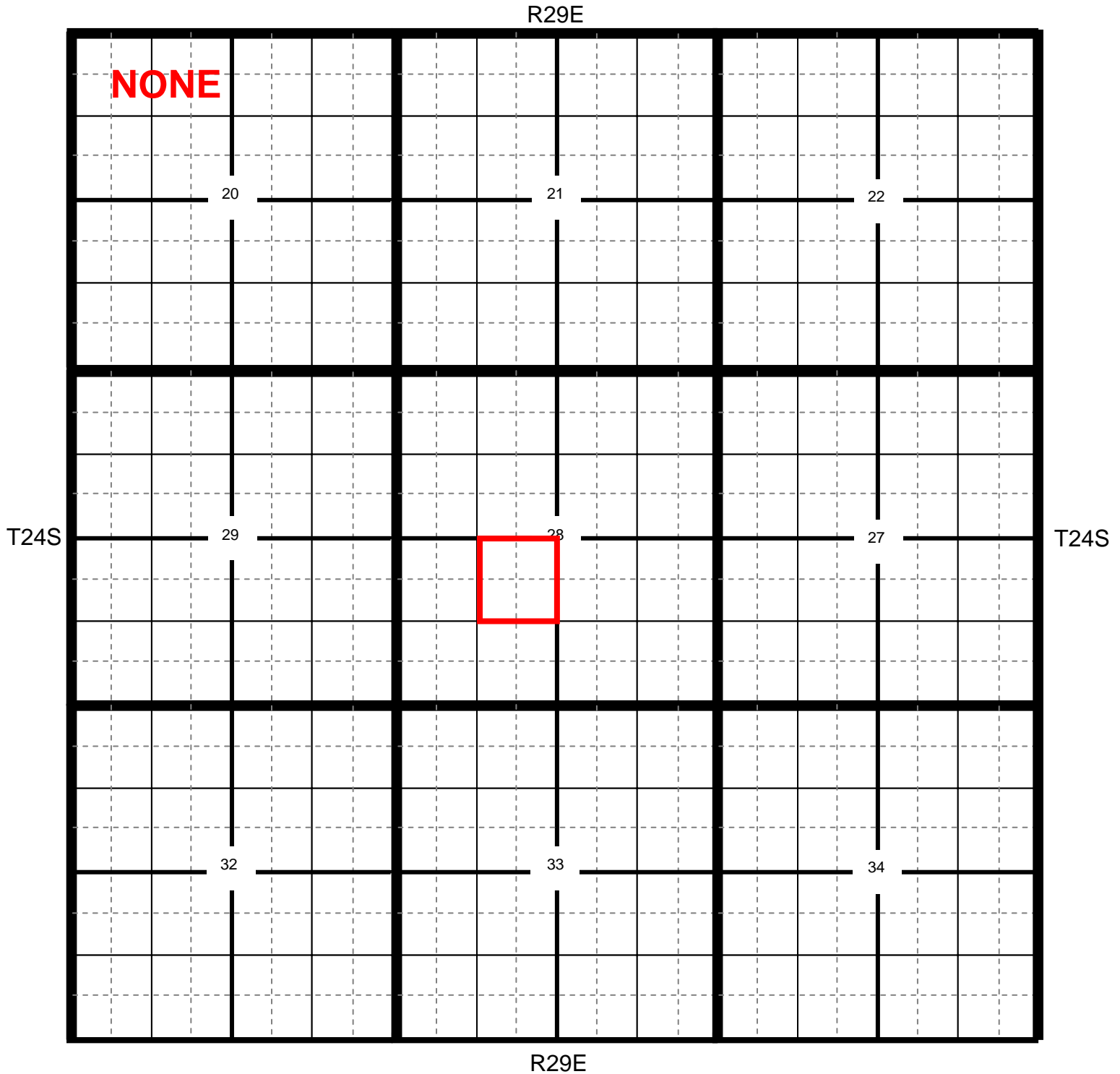
Unit Letter  
K

Section  
28

Township  
24S

Range  
29E

Trend Map 75'



Location

OCD

USGS

SEO

All Databases

## Oxy Cedar Canyon 28 Federal #4 CTB

<b>County</b> Eddy	<b>Unit Letter</b> K	<b>Section</b> 28	<b>Township</b> 24S	<b>Range</b> 29E
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Trend Map 75'

1

2

NW/NW <b>NONE</b> 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

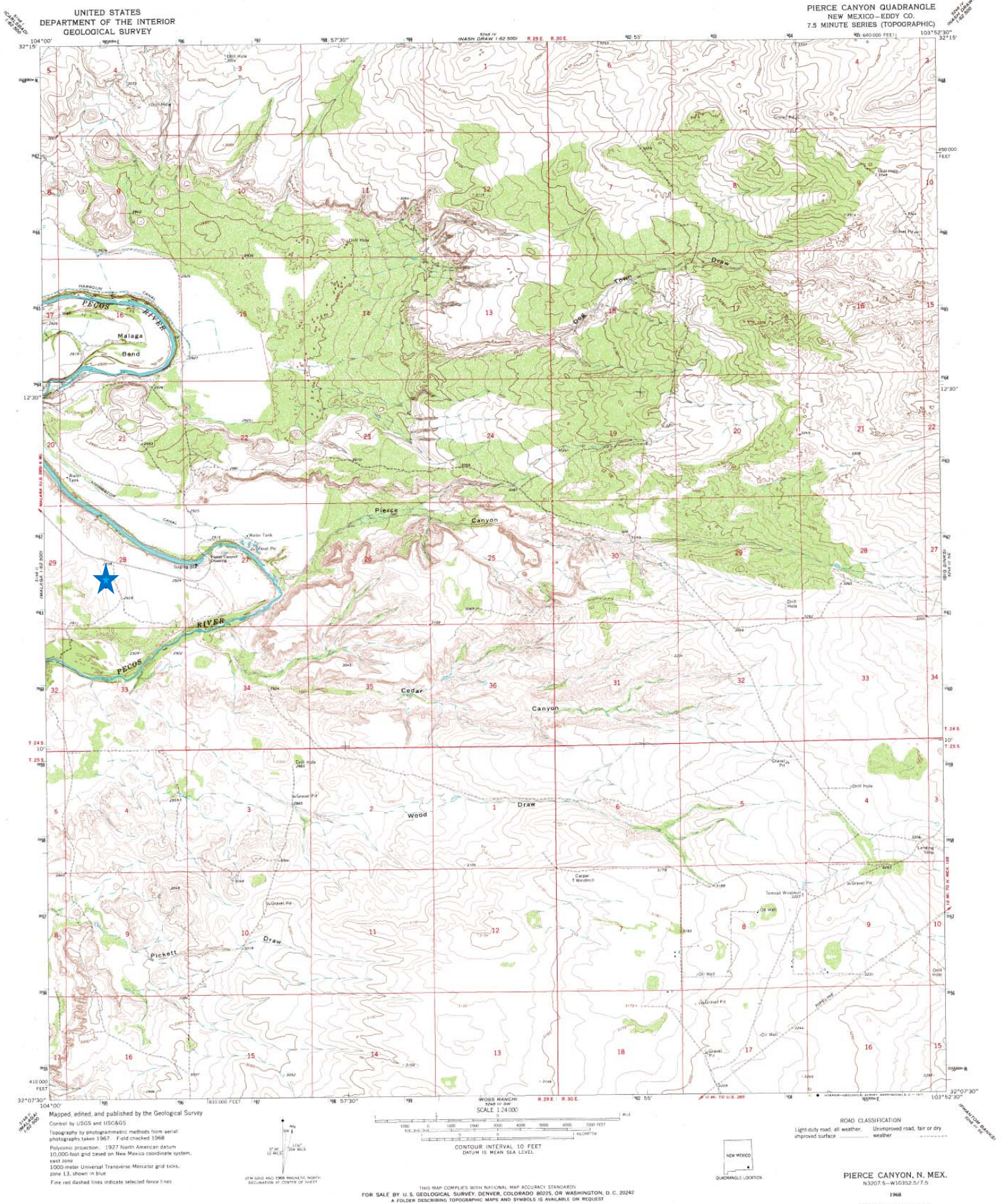
3

4



Oxy

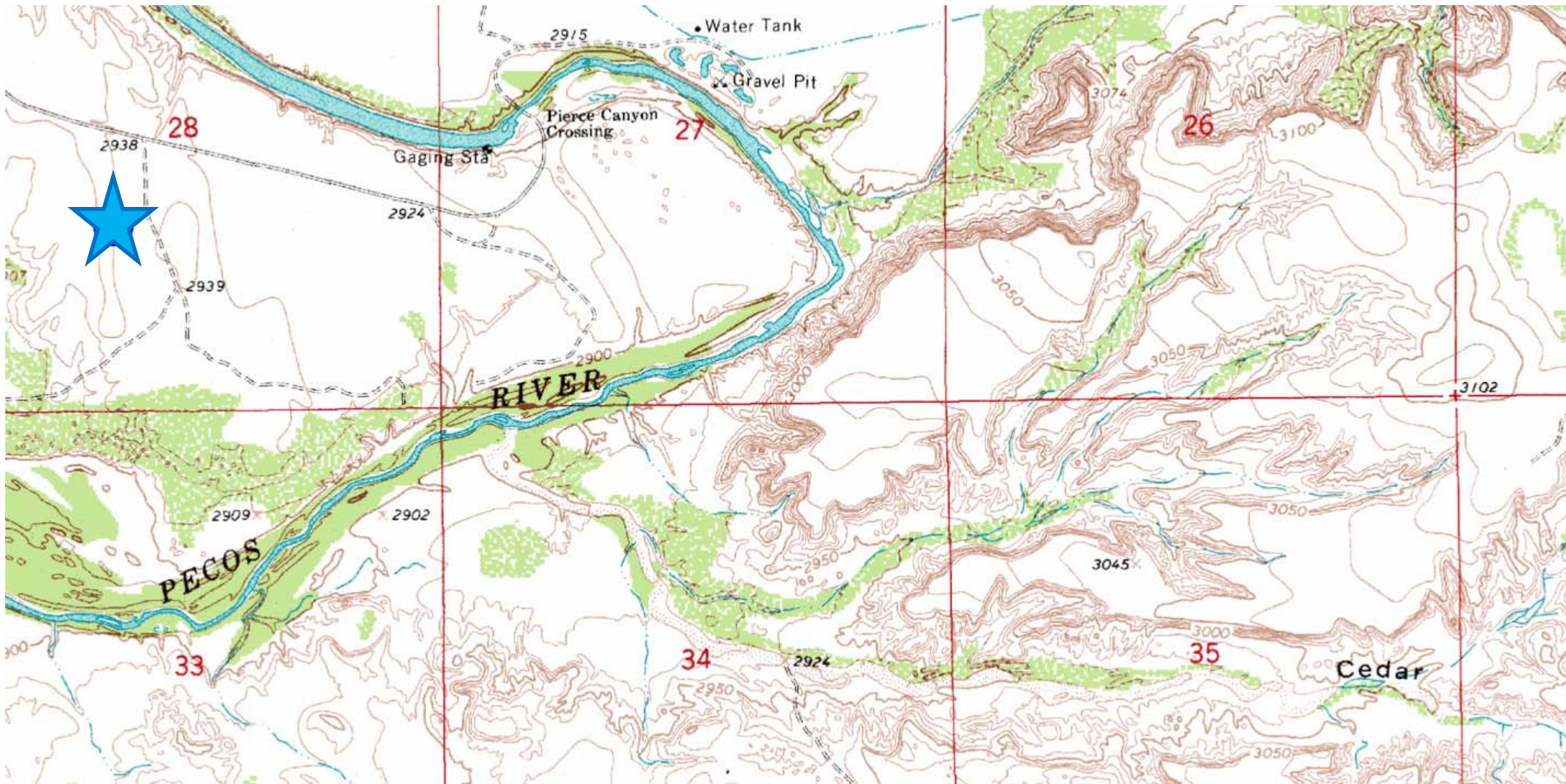
# Cedar Canyon 28 Federal #4 CTB





Oxy

## Cedar Canyon 28 Federal #4 CTB





**Laboratory Analytical Results Summary  
Cedar Canyon 28 Federal #4 CTB**

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 7'	SP1 @ 9'	SP1 @ 11'	SP1 @ 12'
Analyte	Method	Date	2/12/14	2/12/14	2/12/14	2/12/14	2/12/14	2/12/14	2/12/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<b>0.05</b>	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	<b>0.325</b>	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300	<b>0.376</b>	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>96</b>	<b>224</b>	<b>752</b>	<b>1100</b>	<b>592</b>	<b>160</b>	<b>48</b>
<b>GRO</b>	TPH 8015M		<b>19</b>	<10.0	<10.0	<b>12.9</b>	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>343</b>	<b>17.9</b>	<b>20.9</b>	<b>313</b>	<b>176</b>	<10.0	<b>42.4</b>

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'	SP2 @ 7'	SP2 @ 9'	SP2 @ 11'	SP2 @ 12'
Analyte	Method	Date	2/12/14	2/12/14	2/12/14	2/13/14	2/13/14	2/13/14	2/13/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>80</b>	<b>272</b>	<b>1040</b>	<b>1020</b>	<b>464</b>	<b>144</b>	<b>64</b>
<b>GRO</b>	TPH 8015M		<b>37.5</b>	<10.0	<10.0	<b>15.6</b>	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>510</b>	<b>20.9</b>	<10.0	<b>407</b>	<b>286</b>	<10.0	<b>25.3</b>

		Sample	SP3 @ 1'	SP3 @ 3'
Analyte	Method	Date	2/13/14	2/13/14
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>0.107</b>	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>0.708</b>	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>0.815</b>	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>96</b>	<b>240</b>
<b>GRO</b>	TPH 8015M		<b>136</b>	<10.0
<b>DRO</b>	TPH 8015M		<b>1460</b>	<b>50.5</b>

March 03, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON 28 FED#4 CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/17/14 16:15.

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](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,



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:	02/17/2014	Sampling Date:	02/12/2014
Reported:	03/03/2014	Sampling Type:	Soil
Project Name:	CEDAR CANYON 28 FED#4 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 1' (H400477-01)**

BTEX 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	2.09	105	2.00	1.77	
Toluene*	<0.050	0.050	02/26/2014	ND	2.18	109	2.00	2.03	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	1.54	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	6.33	105	6.00	2.34	
Total BTEX	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 97.3 % 61.3-142

Surrogate: Toluene-d8 106 % 71.3-129

Surrogate: 4-Bromofluorobenzene 202 % 65.7-141

Chloride, SM4500Cl-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	02/19/2014	ND	416	104	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	19.0	10.0	02/19/2014	ND	220	110	200	0.566	
DRO >C10-C28	343	10.0	02/19/2014	ND	206	103	200	2.93	

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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:	02/17/2014	Sampling Date:	02/12/2014
Reported:	03/03/2014	Sampling Type:	Soil
Project Name:	CEDAR CANYON 28 FED#4 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 3' (H400477-02)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	2.09	105	2.00	1.77	
Toluene*	<0.050	0.050	02/26/2014	ND	2.18	109	2.00	2.03	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	1.54	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	6.33	105	6.00	2.34	
Total BTX	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 95.4 % 61.3-142  
Surrogate: Toluene-d8 99.7 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/19/2014	ND	416	104	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	02/19/2014	ND	220	110	200	0.566	
DRO >C10-C28	17.9	10.0	02/19/2014	ND	206	103	200	2.93	

Surrogate: 1-Chlorooctane 109 % 65.2-140  
Surrogate: 1-Chlorooctadecane 111 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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:	02/17/2014	Sampling Date:	02/12/2014
Reported:	03/03/2014	Sampling Type:	Soil
Project Name:	CEDAR CANYON 28 FED#4 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 5' (H400477-03)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	2.09	105	2.00	1.77	
Toluene*	<0.050	0.050	02/26/2014	ND	2.18	109	2.00	2.03	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	1.54	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	6.33	105	6.00	2.34	
Total BTEx	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 95.6 % 61.3-142  
Surrogate: Toluene-d8 101 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	02/19/2014	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	02/19/2014	ND	220	110	200	0.566	
DRO >C10-C28	20.9	10.0	02/19/2014	ND	206	103	200	2.93	

Surrogate: 1-Chlorooctane 105 % 65.2-140  
Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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:	02/17/2014	Sampling Date:	02/12/2014
Reported:	03/03/2014	Sampling Type:	Soil
Project Name:	CEDAR CANYON 28 FED#4 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 7' (H400477-04)**

BTX 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	2.09	105	2.00	1.77	
Toluene*	<0.050	0.050	02/26/2014	ND	2.18	109	2.00	2.03	
Ethylbenzene*	0.050	0.050	02/26/2014	ND	2.07	103	2.00	1.54	
Total Xylenes*	0.325	0.150	02/26/2014	ND	6.33	105	6.00	2.34	
Total BTX	0.376	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 95.1 % 61.3-142  
Surrogate: Toluene-d8 102 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 215 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	02/19/2014	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	12.9	10.0	02/19/2014	ND	220	110	200	0.566	
DRO >C10-C28	313	10.0	02/19/2014	ND	206	103	200	2.93	

Surrogate: 1-Chlorooctane 105 % 65.2-140  
Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Hobbs NM, 88241  
Fax To: (575) 397-0397

Received:	02/17/2014	Sampling Date:	02/12/2014
Reported:	03/03/2014	Sampling Type:	Soil
Project Name:	CEDAR CANYON 28 FED#4 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 9' (H400477-05)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	2.09	105	2.00	1.77	
Toluene*	<0.050	0.050	02/26/2014	ND	2.18	109	2.00	2.03	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	1.54	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	6.33	105	6.00	2.34	
Total BTX	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 94.8 % 61.3-142  
Surrogate: Toluene-d8 102 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 115 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	02/19/2014	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	02/20/2014	ND	220	110	200	0.566	
DRO >C10-C28	176	10.0	02/20/2014	ND	206	103	200	2.93	

Surrogate: 1-Chlorooctane 87.1 % 65.2-140  
Surrogate: 1-Chlorooctadecane 99.6 % 63.6-154

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Hobbs NM, 88241  
Fax To: (575) 397-0397

Received:	02/17/2014	Sampling Date:	02/12/2014
Reported:	03/03/2014	Sampling Type:	Soil
Project Name:	CEDAR CANYON 28 FED#4 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 11' (H400477-06)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	2.09	105	2.00	1.77	
Toluene*	<0.050	0.050	02/26/2014	ND	2.18	109	2.00	2.03	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	1.54	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	6.33	105	6.00	2.34	
Total BTX	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 95.4 % 61.3-142  
Surrogate: Toluene-d8 97.8 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/19/2014	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	02/20/2014	ND	220	110	200	0.566	
DRO >C10-C28	<10.0	10.0	02/20/2014	ND	206	103	200	2.93	

Surrogate: 1-Chlorooctane 83.9 % 65.2-140  
Surrogate: 1-Chlorooctadecane 88.0 % 63.6-154

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Received:	02/17/2014	Sampling Date:	02/12/2014
Reported:	03/03/2014	Sampling Type:	Soil
Project Name:	CEDAR CANYON 28 FED#4 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 12' (H400477-07)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	2.09	105	2.00	1.77	
Toluene*	<0.050	0.050	02/26/2014	ND	2.18	109	2.00	2.03	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	1.54	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	6.33	105	6.00	2.34	
Total BTX	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 96.0 % 61.3-142  
Surrogate: Toluene-d8 102 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-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	02/19/2014	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	02/20/2014	ND	220	110	200	0.566	
DRO >C10-C28	42.4	10.0	02/20/2014	ND	206	103	200	2.93	

Surrogate: 1-Chlorooctane 92.1 % 65.2-140  
Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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Received:	02/17/2014	Sampling Date:	02/12/2014
Reported:	03/03/2014	Sampling Type:	Soil
Project Name:	CEDAR CANYON 28 FED#4 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 1' (H400477-08)**

BTX 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	2.09	105	2.00	1.77	
Toluene*	<0.050	0.050	02/26/2014	ND	2.18	109	2.00	2.03	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	1.54	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	6.33	105	6.00	2.34	
Total BTX	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 96.9 % 61.3-142  
Surrogate: Toluene-d8 103 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 162 % 65.7-141

Chloride, SM4500Cl-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	02/19/2014	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	37.5	10.0	02/20/2014	ND	220	110	200	0.566	
DRO >C10-C28	510	10.0	02/20/2014	ND	206	103	200	2.93	

Surrogate: 1-Chlorooctane 83.1 % 65.2-140  
Surrogate: 1-Chlorooctadecane 91.8 % 63.6-154

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**Analytical Results For:**

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

Received:	02/17/2014	Sampling Date:	02/12/2014
Reported:	03/03/2014	Sampling Type:	Soil
Project Name:	CEDAR CANYON 28 FED#4 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 3' (H400477-09)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	2.09	105	2.00	1.77	
Toluene*	<0.050	0.050	02/26/2014	ND	2.18	109	2.00	2.03	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	1.54	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	6.33	105	6.00	2.34	
Total BTX	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 100 % 61.3-142  
Surrogate: Toluene-d8 101 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 107 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/19/2014	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	02/20/2014	ND	220	110	200	0.566	
DRO >C10-C28	20.9	10.0	02/20/2014	ND	206	103	200	2.93	

Surrogate: 1-Chlorooctane 106 % 65.2-140  
Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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

Received:	02/17/2014	Sampling Date:	02/12/2014
Reported:	03/03/2014	Sampling Type:	Soil
Project Name:	CEDAR CANYON 28 FED#4 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 5' (H400477-10)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	2.09	105	2.00	1.77	
Toluene*	<0.050	0.050	02/26/2014	ND	2.18	109	2.00	2.03	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	1.54	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	6.33	105	6.00	2.34	
Total BTX	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 94.9 % 61.3-142  
Surrogate: Toluene-d8 99.3 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	02/19/2014	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	02/20/2014	ND	220	110	200	0.566	
DRO >C10-C28	<10.0	10.0	02/20/2014	ND	206	103	200	2.93	

Surrogate: 1-Chlorooctane 105 % 65.2-140  
Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Received:	02/17/2014	Sampling Date:	02/13/2014
Reported:	03/03/2014	Sampling Type:	Soil
Project Name:	CEDAR CANYON 28 FED#4 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 7' (H400477-11)**

BTX 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	2.09	105	2.00	1.77	
Toluene*	<0.050	0.050	02/26/2014	ND	2.18	109	2.00	2.03	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	1.54	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	6.33	105	6.00	2.34	
Total BTX	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 96.0 % 61.3-142  
Surrogate: Toluene-d8 100 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 163 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	02/19/2014	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	15.6	10.0	02/20/2014	ND	220	110	200	0.566	
DRO >C10-C28	407	10.0	02/20/2014	ND	206	103	200	2.93	

Surrogate: 1-Chlorooctane 83.9 % 65.2-140  
Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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Fax To: (575) 397-0397

Received:	02/17/2014	Sampling Date:	02/13/2014
Reported:	03/03/2014	Sampling Type:	Soil
Project Name:	CEDAR CANYON 28 FED#4 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 9' (H400477-12)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	2.09	105	2.00	1.77	
Toluene*	<0.050	0.050	02/26/2014	ND	2.18	109	2.00	2.03	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	1.54	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	6.33	105	6.00	2.34	
Total BTEx	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 97.3 % 61.3-142  
Surrogate: Toluene-d8 102 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 118 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	02/19/2014	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	02/20/2014	ND	220	110	200	0.566	
DRO >C10-C28	286	10.0	02/20/2014	ND	206	103	200	2.93	

Surrogate: 1-Chlorooctane 92.2 % 65.2-140  
Surrogate: 1-Chlorooctadecane 99.7 % 63.6-154

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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:	02/17/2014	Sampling Date:	02/13/2014
Reported:	03/03/2014	Sampling Type:	Soil
Project Name:	CEDAR CANYON 28 FED#4 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 11' (H400477-13)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	2.09	105	2.00	1.77	
Toluene*	<0.050	0.050	02/26/2014	ND	2.18	109	2.00	2.03	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	1.54	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	6.33	105	6.00	2.34	
Total BTEx	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 97.1 % 61.3-142  
Surrogate: Toluene-d8 101 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/19/2014	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	02/20/2014	ND	220	110	200	0.566	
DRO >C10-C28	<10.0	10.0	02/20/2014	ND	206	103	200	2.93	

Surrogate: 1-Chlorooctane 92.1 % 65.2-140  
Surrogate: 1-Chlorooctadecane 96.4 % 63.6-154

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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:	02/17/2014	Sampling Date:	02/13/2014
Reported:	03/03/2014	Sampling Type:	Soil
Project Name:	CEDAR CANYON 28 FED#4 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 12' (H400477-14)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	2.09	105	2.00	1.77	
Toluene*	<0.050	0.050	02/26/2014	ND	2.18	109	2.00	2.03	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	1.54	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	6.33	105	6.00	2.34	
Total BTX	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 97.7 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-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	02/19/2014	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	02/20/2014	ND	220	110	200	0.566	
DRO >C10-C28	25.3	10.0	02/20/2014	ND	206	103	200	2.93	

Surrogate: 1-Chlorooctane 87.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.2 % 63.6-154

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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:	02/17/2014	Sampling Date:	02/13/2014
Reported:	03/03/2014	Sampling Type:	Soil
Project Name:	CEDAR CANYON 28 FED#4 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 3 @ 1' (H400477-15)**

BTX 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	2.09	105	2.00	1.77	
Toluene*	<0.050	0.050	02/26/2014	ND	2.18	109	2.00	2.03	
Ethylbenzene*	<b>0.107</b>	0.050	02/26/2014	ND	2.07	103	2.00	1.54	
Total Xylenes*	<b>0.708</b>	0.150	02/26/2014	ND	6.33	105	6.00	2.34	
Total BTX	<b>0.815</b>	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 98.0 % 61.3-142  
Surrogate: Toluene-d8 109 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 280 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>96.0</b>	16.0	02/19/2014	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	<b>136</b>	10.0	02/20/2014	ND	220	110	200	0.566	
DRO >C10-C28	<b>1460</b>	10.0	02/20/2014	ND	206	103	200	2.93	

Surrogate: 1-Chlorooctane 103 % 65.2-140  
Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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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:	02/17/2014	Sampling Date:	02/13/2014
Reported:	03/03/2014	Sampling Type:	Soil
Project Name:	CEDAR CANYON 28 FED#4 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 3 @ 3' (H400477-16)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	2.09	105	2.00	1.77	
Toluene*	<0.050	0.050	02/26/2014	ND	2.18	109	2.00	2.03	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	1.54	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	6.33	105	6.00	2.34	
Total BTX	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 96.7 % 61.3-142  
Surrogate: Toluene-d8 99.3 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 107 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/19/2014	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	02/20/2014	ND	220	110	200	0.566	
DRO >C10-C28	50.5	10.0	02/20/2014	ND	206	103	200	2.93	

Surrogate: 1-Chlorooctane 97.2 % 65.2-140  
Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

2/2

<b>Company Name:</b> BBC International, Inc.		<b>P.O. #:</b>		<b>ANALYSIS REQUEST</b>	
<b>Project Manager:</b> Cliff Brunson		<b>Company:</b>			
<b>Address:</b> P.O. Box 805		<b>Attn:</b>			
<b>City:</b> Hobbs	<b>State:</b> NM	<b>Zip:</b> 88241			
<b>Phone #:</b> 575-397-6388	<b>Fax #:</b> 575-397-0397				
<b>Project #:</b>	<b>Project Owner:</b>	<b>Address:</b>			
<b>Project Name:</b> * Cedar Canyon 22 Fed #4		<b>City:</b> SAME			
<b>Project Location:</b>		<b>State:</b>			
<b>Sampler Name:</b>		<b>Phone #:</b>			
<b>FOR LAB USE ONLY</b>		<b>Fax #:</b>			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	SAMPLING	DATE	TIME	T D H	BTEX	CL-
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
AHDE477	SP 20 7'	C 1	1			V						2-13-14	137	V	V	V
	11	C 1	1			V						2-13-14	205	V	V	V
	12	C 1	1			V						2-13-14	220	V	V	V
	13	C 1	1			V						2-13-14	238	V	V	V
	14	C 1	1			V						2-13-14	200	V	V	V
	15	C 1	1			V						2-13-14	1222	V	V	V
	16	C 1	1			V										

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<b>Reinquinshed By:</b>	<b>Date:</b> 2-13-14	<b>Received By:</b>	<b>Phone Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>Add'l Phone #:</b>
<b>Relinquished By:</b>	<b>Date:</b> 2-13-14	<b>Time:</b> 4:15	<b>Fax Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>Add'l Fax #:</b>
<b>REMARKS:</b>				

<b>Delivered By:</b> (Circle One)	<b>Sample Condition</b>	<b>CHECKED BY:</b>
Sampler - UPS    Bus    Other:	<input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	(Initials)

## Jennifer Gilkey

---

**From:** Cliff P. Brunson <cbrunson@bbcinternational.com>  
**Sent:** Sunday, April 06, 2014 4:50 PM  
**To:** Mike Bratcher  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY-Cedar Canyon 28 Federal #4 CTB-Remediation Plan  
**Attachments:** Remediation Packet, Cedar Canyon 28 Federal #4 CTB.pdf

Mike,

This e-mail is to confirm our conversation on April 1, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate to a depth of 2 feet in the leak area around SP1 and SP2 then install a clay liner as depicted on the attached site diagram. In the area of SP3, the excavation will be 1 foot. Then the site will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation 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.  
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## Kathy Purvis

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**From:** Van Curen, Jennifer <jvancure@blm.gov>  
**Sent:** Tuesday, April 22, 2014 6:55 AM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** Re: Oxy-Remediation Plans Approval Status

EC Hill B Fed #20 --Contacted CJ and approved work on 4-16-14. Stips apply to this remediation: SP1 is 3' and SP2 & SP3 is 6" minimal removal. Berm well pad to prevent fluids from leaving the well pad. Pay close attention to not disturb old drilling pit.

Cypress 34 Fed #1 -- Received plan in on 4-6-14 and approved on 4-16-14 after visiting with CJ. Stips are to repair cattle guard and fence along lease road, correct erosion issue in the NW, need sidewall samples from area to lined to unlined behind two tanks, Lease number missing on well sign, SP1 min is 3', SP2 is 1' minimal --sample to be sure TPH is less than 1000. SP3 & SP6 is 1' removal and SP5 is 2' removal. SP6 should be lined with a small berm to catch load line spillage from trucks. **Samples from confirmations must be sent in.**

Cedar Canyon 28 Fed #4 -- Received plan on 4-6-14 and approved plan on 4-16-14 after reviewing with CJ. Excavating 2' in areas of SP1 & SP2, and 1' removal from SP3. The area at SP1 & SP2 will have a clay liner used. Discussed plan with CJ and let him know that since there are hydrocarbons around the heater treater and separator that the clay will not be effective due to the hydrocarbons breaking down the clay rather quickly. If spill occurs in that area, it will still need to be delineated.

Patton 17 Fed #6 -- Contacted CJ and approved work on 4-16-14. Stips apply to this remediation: Would allow surface scrape on well pad. There is no need to dig into pit with low levels of chlorides. Pit needs to be capped anyway. Recommend no or little digging, capping and topsoil.

MLMU #246 -- Plan received for remediation on 4-5-14 and approved after reviewing with CJ on 4-16-14. Sidewalls need to be taken for horizontal cleanup. **Confirmation samples need to be sent in.**

Bradley 13 Fed Battery -- Received plan in for remediation of spill on 4-6-14 and approved on 4-16-14 after visiting with CJ. Need to delineate north of tank. Tank needs to have integrity test completed and repairs made or replacement, remediate the release around the pumpjack and north to the pit area. No plan necessary, just complete the work for this area and test to be sure that contaminants have been removed. Be careful to not dig into pit contents. Remove hot material and cap if necessary. Deep bury or haul off the cement slab. **Confirmation samples from wellhead and pit area will need to be sent in.**

Confirmation samples or delineation samples are very important not only to the BLM but also the operator. This is what will determine the plan of action in reclamation of the plugged well. Without that information, massive mistakes will be (have been) made, costing hundreds of thousands in remediation of plugged wells. Strategic thinking is priceless.

Jennifer

JENNIFER E VAN CUREN  
ENVIRONMENTAL PROTECTION SPECIALIST  
DOI-BLM-CARLSBAD FIELD OFFICE  
320 E GREENE ST. CARLSBAD, NM 88220



OFFICE- 575-234-5905  
CELL - 575-361-0042  
FAX - 575-234-5927

"There are known knowns. These are things we know that we know. There are known unknowns. That is to say, there are things that we know we don't know." Jim Perry

On Mon, Apr 21, 2014 at 4:02 PM, Cliff P. Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)> wrote:  
Jennifer,

I am following up on several remediation plans that I sent to you for approval a couple of weeks ago. Could you give me an update status on the following Oxy sites:

EC Hill B Fed #20  
Cypress 34 Fed #1  
Cedar Canyon 28 Fed #4  
Patton 17 Fed #6  
MLM #246  
Bradley 13 Fed Battery

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
President  
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