

Closure Report

Site Description

Site Name:	Cypress 33 Federal #6H
Company:	Oxy Permian Ltd.
Legal Description:	U/L A, Section 33, T23S, R29E
County:	Eddy County, NM
GPS Coordinates:	N 32.26685° W 103.98463°

Release Data

Date of Release:	04/28/2014
Type of Release:	Oil and produced water
Source of Release:	PRD did not reset on production flow line
Volume of Release:	5 bbls oil, 195 bbls produced water
Volume Recovered:	50 bbls

Remediation Specifications

Remediation Parameters:	Backdrag the areas at SP1 & frac tanks(if still there). Excavate the area at SP2 to 2.5 feet. Excavate the areas around SP3, SP4, SP5, & SP6 to 6 inches. Excavate the areas around SP7 to 1.5 feet. See attached drawing. Obtain confirmation samples at SP3-SP6. Backfill the site w/ clean soil.
Remediation Activities:	04/16/2015 to 04/22/2015

Plan Sent to OCD:	10/29/2014	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	11/03/2014	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	10/30/2014	Email from Cliff Brunson to Sol Hughes
BLM Approval of Plan:	10/30/2014	Email from Sol Hughes to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 04/29/2014
Final C-141	Signed 04/30/2015
Site Diagram	May 2014
Groundwater Plot	50'-75'
TOPO Maps	May 2014
Lab Summary	10/06/2014 and 04/20/2015
Lab Analysis	10/06/2014 and 04/20/2015
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.

05/06/2015

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Oxy Permian Ltd.	Contact	CJ Summers
Address	1017 W. Stanolind Rd, Hobbs, NM	Telephone No.	(575) 397-8216
Facility Name	Cypress 33 Federal #6H	Facility Type	Well location
Surface Owner	BLM	Mineral Owner	API No. 30-015-41557

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	33	23S	29E	466	North	1040	East	Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	5 bbls oil, 195 bbls produced water	Volume Recovered	50 bbls
Source of Release	PRD did not reset on production flow line	Date and Hour of Occurrence	04/28/2014	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, BBC International	Date and Hour	04/28/14 @ 4:36 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.*

A PRD on a production flow line did not reset and caused 195 bbls of produced water and 5 bbls of oil to leak onto the ground. A total of 10 bbls of fluids were recovered via vacuum truck and the PRD was repaired/replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 400' x 80' on and off location. Remediation will be completed in accordance 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:	OIL CONSERVATION DIVISION		
Printed Name: Chancey Summers	Approved by District Supervisor:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Chancey.Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 4-29-14	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
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	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Cypress 33 Federal #6H	Facility Type	
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-41557

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	33	23S	29E					Eddy

Latitude N 32.26685° Longitude W 103.98463°

NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	5 bbls oil, 195 bbls produced water	Volume Recovered	50 bbls
Source of Release	PRD did not reset on production flow line	Date and Hour of Occurrence	04/28/2014	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, BBC International Inc.	Date and Hour	04/28/2014 @ 4:36pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input 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 PRD on a production flow line did not reset and caused 195 bbls of produced water and 5 bbls of oil to leak onto the ground. A total 50 bbls of fluids were recovered via vacuum truck and the PRD was repaired/replaced.

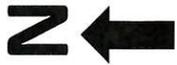
Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 400' x 80' on and off location. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 11/03/2014 and approved by Sol Hughes of the BLM via email on 10/30/2014.

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.

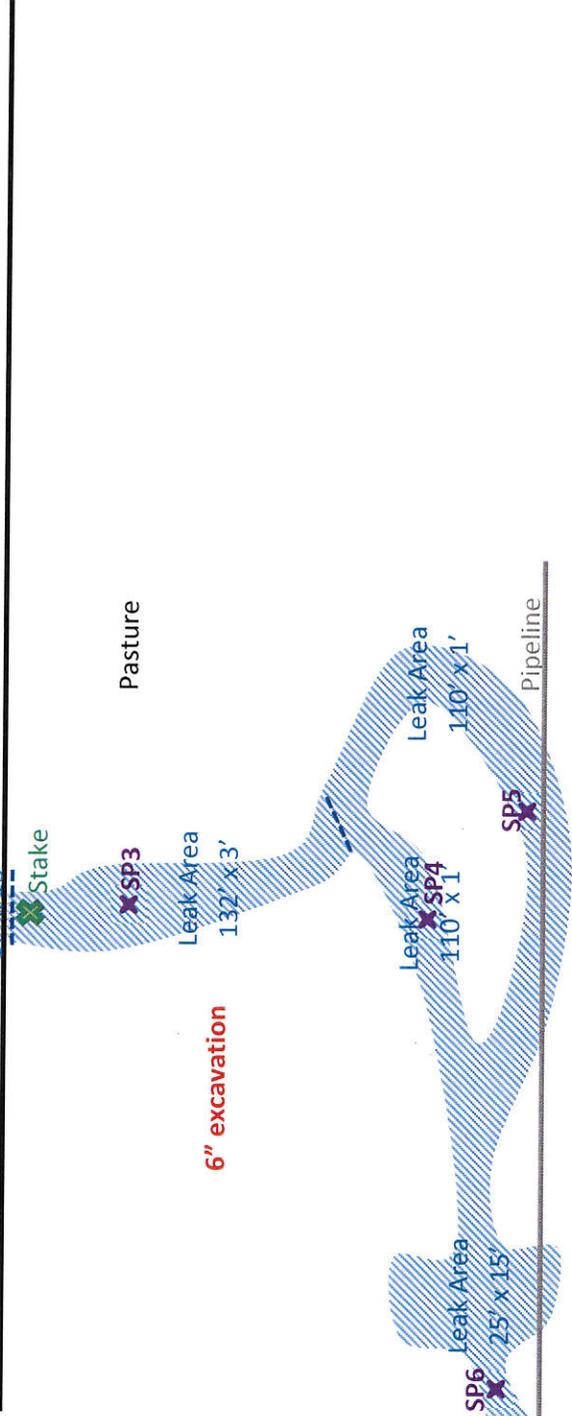
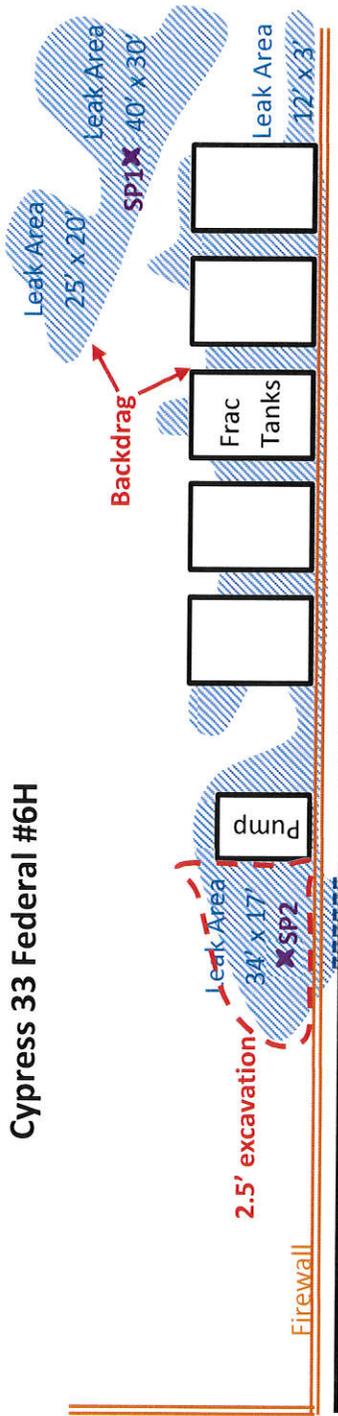
Signature: Chris Jones <small>Digitally signed by Chris Jones DN: cn=Chris Jones, o, ou, email=ckjones888@yahoo.com, c=US Date: 2015.04.30 12:59:03 -05'00'</small>	OIL CONSERVATION DIVISION	
Printed Name: Christopher Jones	Approved by Environmental Specialist:	
Title: HES Specialist	Approval Date:	Expiration Date:
E-mail Address: Christopher.Jones@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date:	Phone: (575) 628-4121	

* Attach Additional Sheets If Necessary



Oxy

Cypress 33 Federal #6H



U/L A, Section 33, T23S, R29E
 Eddy County, NM
 N 32.26685° W 103.98463°
 API# 30-015-41557

BBC International, Inc.

Oxy

Cypress 33 Federal #6H

Date: 05/08/2014 DRWG by: K. Purvis

NOT TO SCALE File: Oxy 2014



Groundwater Plot

Oxy Cypress 33 Federal #6H

County
Eddy

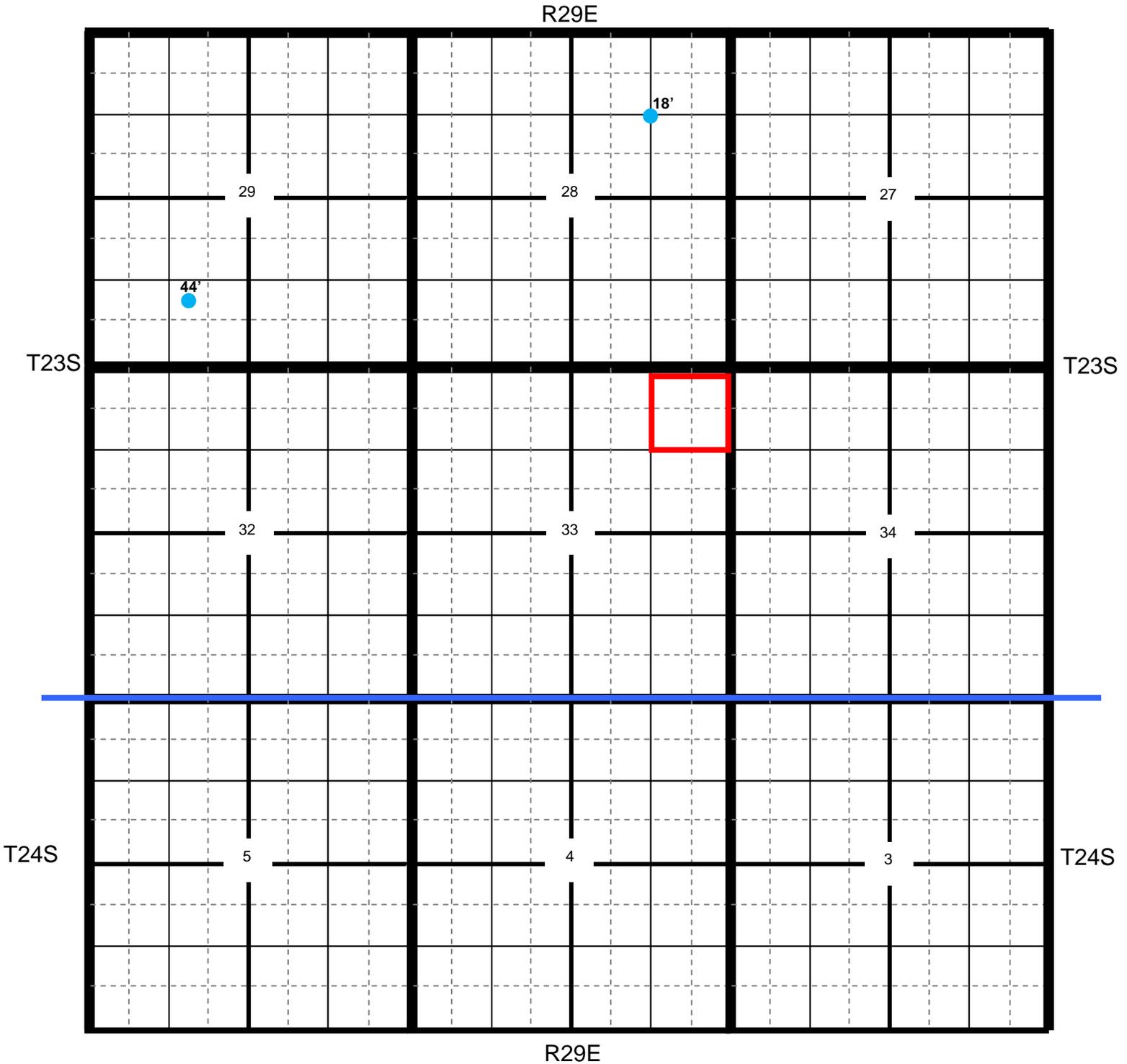
Unit Letter
A

Section
33

Township
23S

Range
29E

Trend Map 50'-75'



📍 Location

● OCD

● USGS

● SEO

● All Databases

Oxy Cypress 33 Federal #6H

County Eddy Unit Letter A Section 33 Township 23S Range 29E

Trend Map 50'-75'

1

2

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

3

4

📍 Location

● OCD

● USGS

● SEO

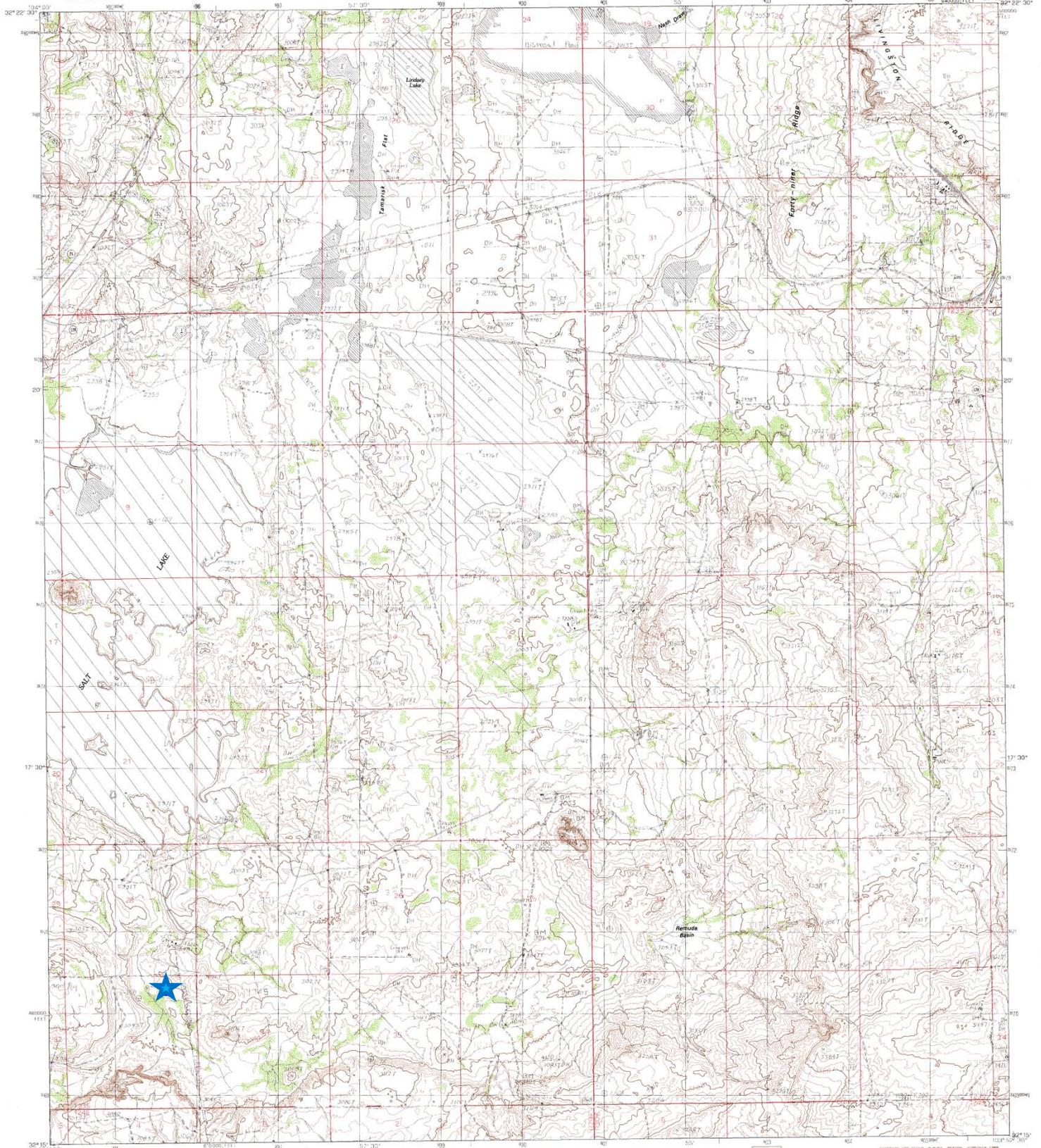
● All Databases

Oxy

Cypress 33 Federal #6H

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

REMUDA BASIN QUADRANGLE
NEW MEXICO-EDDY CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY
CONTROL BY U.S.A. 1983/84
COMPILED FROM AERIAL PHOTOGRAPHS TAKEN 1977
FIELD CHECKED 1981
PROJECTION BY CANADIAN TRANSVERSE MERCATOR 1977
HORIZONTAL DATUM USED NEW MEXICO EAST ZONE
UTM GRID DECLINATION 97° 00' EAST
MAGNETIC NORTH DECLINATIONS 97° 00' EAST
VERTICAL DATUM NATIONAL GEODETIC VERTICAL DATUM OF 1988
To place on the predicted North American Datum of 1983,
move the projection lines as shown by dashed corner ticks
0 meters south and 40 meters east.
There may be private inholdings within the boundaries of any
Federal and State Reservations shown on this map.
All marginal data and lettering generated and positioned by
automated type placement procedures.

PROVISIONAL MAP
Produced from original
manuscript drawings. Infor-
mation shown as of date of
field check.



QUADRANGLE LOCATION			
1	2	3	Indian Run
4	5	6	Lower Hill South
7	8	9	Upper Hill South
10	11	12	Lower Hill North
13	14	15	Upper Hill North
16	17	18	Remuda Basin

ROAD LEGEND
Improved Road
Unimproved Road
Trail
Increase Route U.S. Route State Route

REMUDA BASIN, NEW MEXICO
PROVISIONAL EDITION 1985

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225
OR RESTON, VIRGINIA 22092

3203-G-PT-024

Laboratory Analytical Results Summary
Cypress 33 Federal #6H

		Sample	SP1 @ SURFACE	SP1 @ 1'
Analyte	Method	Date	10/6/14	10/6/14
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500CI-B		<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		39.8	34

		Sample	SP5 @ SURFACE	SP5 @ 1'
Analyte	Method	Date	10/6/14	10/6/14
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.100	<0.050
Toluene	BTEX 8021B		<0.100	<0.050
Ethylbenzene	BTEX 8021B		<0.100	<0.050
Total Xylenes	BTEX 8021B		0.871	<0.150
Total BTEX	BTEX 8021B		0.871	<0.300
Chloride	SM4500CI-B		<16.0	<16.0
GRO	TPH 8015M		77.6	<10.0
DRO	TPH 8015M		16900	91.7

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	10/6/14	10/6/14	10/6/14	10/6/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.200	<0.050	<0.200	<0.050
Toluene	BTEX 8021B		0.42	<0.050	0.768	<0.050
Ethylbenzene	BTEX 8021B		0.338	<0.050	0.424	<0.050
Total Xylenes	BTEX 8021B		5.88	<0.150	12.9	<0.150
Total BTEX	BTEX 8021B		6.64	<0.300	14.1	<0.300
Chloride	SM4500CI-B		896	<16.0	16	176
GRO	TPH 8015M		206	<10.0	346	<10.0
DRO	TPH 8015M		33800	39.4	4850	<10.0

		Sample	SP6 @ SURFACE	SP6 @ 1'
Analyte	Method	Date	10/6/14	10/6/14
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.100	<0.050
Toluene	BTEX 8021B		<0.100	<0.050
Ethylbenzene	BTEX 8021B		<0.100	0.097
Total Xylenes	BTEX 8021B		0.739	0.195
Total BTEX	BTEX 8021B		0.739	<0.300
Chloride	SM4500CI-B		32	<16.0
GRO	TPH 8015M		76.1	<10.0
DRO	TPH 8015M		15100	91.3

		Sample	SP3 @ SURFACE	SP3 @ 1'
Analyte	Method	Date	10/6/14	10/6/14
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.100	<0.050
Toluene	BTEX 8021B		<0.100	<0.050
Ethylbenzene	BTEX 8021B		<0.100	0.058
Total Xylenes	BTEX 8021B		0.697	<0.150
Total BTEX	BTEX 8021B		0.697	<0.300
Chloride	SM4500CI-B		<16.0	16
GRO	TPH 8015M		70.5	<10.0
DRO	TPH 8015M		14600	56.3

		Sample	SP7 @ SURFACE	SP7 @ 1'
Analyte	Method	Date	10/6/14	10/6/14
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.100	<0.050
Toluene	BTEX 8021B		<0.100	0.065
Ethylbenzene	BTEX 8021B		<0.100	0.14
Total Xylenes	BTEX 8021B		0.923	0.493
Total BTEX	BTEX 8021B		0.923	0.698
Chloride	SM4500CI-B		<16.0	16
GRO	TPH 8015M		71.1	27.4
DRO	TPH 8015M		14000	1040

		Sample	SP4 @ SURFACE	SP4 @ 1'
Analyte	Method	Date	10/6/14	10/6/14
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.100	<0.050
Toluene	BTEX 8021B		<0.100	<0.050
Ethylbenzene	BTEX 8021B		<0.100	<0.050
Total Xylenes	BTEX 8021B		0.708	<0.150
Total BTEX	BTEX 8021B		0.708	<0.300
Chloride	SM4500CI-B		<16.0	<16.0
GRO	TPH 8015M		82	<10.0
DRO	TPH 8015M		16700	34.2

**Laboratory Analytical Results Summary
Cypress 33 Federal #6H, (4/28/14 leak)**

Confirmation		Sample	SP3	SP4	SP5	SP6
Analyte	Method	Date	4/20/15	4/20/15	4/20/15	4/20/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0



October 14, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 33 FEDERAL #6H

Enclosed are the results of analyses for samples received by the laboratory on 10/09/14 9:30.

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 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:	10/09/2014	Sampling Date:	10/06/2014
Reported:	10/14/2014	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #6H	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ SURFACE (H403090-01)

BTEX 8021B		mg/kg		Analyzed By: ms				A-01	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2014	ND	1.71	85.6	2.00	4.04	
Toluene*	<0.050	0.050	10/10/2014	ND	1.66	83.1	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.60	80.0	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.79	79.9	6.00	4.40	
Total BTEX	<0.300	0.300	10/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	<16.0	16.0	10/09/2014	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	10/09/2014	ND	176	87.8	200	1.23	
DRO >C10-C28	39.8	10.0	10/09/2014	ND	178	89.0	200	0.304	

Surrogate: 1-Chlorooctane 100 % 47.2-157
Surrogate: 1-Chlorooctadecane 112 % 52.1-176

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:	10/09/2014	Sampling Date:	10/06/2014
Reported:	10/14/2014	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #6H	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 1' (H403090-02)

BTEX 8021B		mg/kg		Analyzed By: ms				A-01	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2014	ND	1.71	85.6	2.00	4.04	
Toluene*	<0.050	0.050	10/10/2014	ND	1.66	83.1	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.60	80.0	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.79	79.9	6.00	4.40	
Total BTEX	<0.300	0.300	10/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	<16.0	16.0	10/09/2014	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	10/09/2014	ND	176	87.8	200	1.23	
DRO >C10-C28	34.0	10.0	10/09/2014	ND	178	89.0	200	0.304	

Surrogate: 1-Chlorooctane 101 % 47.2-157
Surrogate: 1-Chlorooctadecane 109 % 52.1-176

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:	10/09/2014	Sampling Date:	10/06/2014
Reported:	10/14/2014	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #6H	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ SURFACE (H403090-03)

BTEX 8021B		mg/kg		Analyzed By: ms				A-01	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/10/2014	ND	1.71	85.6	2.00	4.04	
Toluene*	0.420	0.200	10/10/2014	ND	1.66	83.1	2.00	3.13	
Ethylbenzene*	0.338	0.200	10/10/2014	ND	1.60	80.0	2.00	4.66	
Total Xylenes*	5.88	0.600	10/10/2014	ND	4.79	79.9	6.00	4.40	
Total BTEX	6.64	1.20	10/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	896	16.0	10/09/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	206	50.0	10/09/2014	ND	176	87.8	200	1.23	
DRO >C10-C28	33800	50.0	10/09/2014	ND	178	89.0	200	0.304	

Surrogate: 1-Chlorooctane 119 % 47.2-157

Surrogate: 1-Chlorooctadecane 2060 % 52.1-176

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Analytical Results For:

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

Received:	10/09/2014	Sampling Date:	10/06/2014
Reported:	10/14/2014	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #6H	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 1' (H403090-04)

BTEX 8021B		mg/kg		Analyzed By: ms				A-01	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/10/2014	ND	1.71	85.6	2.00	4.04	
Toluene*	<0.050	0.050	10/10/2014	ND	1.66	83.1	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/10/2014	ND	1.60	80.0	2.00	4.66	
Total Xylenes*	<0.150	0.150	10/10/2014	ND	4.79	79.9	6.00	4.40	
Total BTEX	<0.300	0.300	10/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	<16.0	16.0	10/09/2014	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	10/09/2014	ND	176	87.8	200	1.23	
DRO >C10-C28	39.4	10.0	10/09/2014	ND	178	89.0	200	0.304	

Surrogate: 1-Chlorooctane 101 % 47.2-157
Surrogate: 1-Chlorooctadecane 109 % 52.1-176

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Received:	10/09/2014	Sampling Date:	10/06/2014
Reported:	10/14/2014	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #6H	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 2' (H403090-05)

BTEX 8021B		mg/kg		Analyzed By: ms				A-01	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/10/2014	ND	1.71	85.6	2.00	4.04	
Toluene*	0.768	0.200	10/10/2014	ND	1.66	83.1	2.00	3.13	
Ethylbenzene*	0.424	0.200	10/10/2014	ND	1.60	80.0	2.00	4.66	
Total Xylenes*	12.9	0.600	10/10/2014	ND	4.79	79.9	6.00	4.40	
Total BTEX	14.1	1.20	10/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	16.0	16.0	10/09/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	346	50.0	10/09/2014	ND	176	87.8	200	1.23	
DRO >C10-C28	4850	50.0	10/09/2014	ND	178	89.0	200	0.304	

Surrogate: 1-Chlorooctane 136 % 47.2-157

Surrogate: 1-Chlorooctadecane 181 % 52.1-176

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Received:	10/09/2014	Sampling Date:	10/06/2014
Reported:	10/14/2014	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #6H	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 3' (H403090-06)

BTEX 8021B		mg/kg		Analyzed By: ms				A-01	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2014	ND	1.73	86.7	2.00	1.98	
Toluene*	<0.050	0.050	10/13/2014	ND	1.67	83.4	2.00	2.16	
Ethylbenzene*	<0.050	0.050	10/13/2014	ND	1.60	79.9	2.00	3.62	
Total Xylenes*	<0.150	0.150	10/13/2014	ND	4.77	79.5	6.00	3.41	
Total BTEX	<0.300	0.300	10/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	176	16.0	10/09/2014	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	10/09/2014	ND	176	87.8	200	1.23	
DRO >C10-C28	<10.0	10.0	10/09/2014	ND	178	89.0	200	0.304	

Surrogate: 1-Chlorooctane 97.4 % 47.2-157
Surrogate: 1-Chlorooctadecane 101 % 52.1-176

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Received:	10/09/2014	Sampling Date:	10/06/2014
Reported:	10/14/2014	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #6H	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ SURFACE (H403090-07)

BTEX 8021B		mg/kg		Analyzed By: ms				A-01		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	10/13/2014	ND	1.73	86.7	2.00	1.98		
Toluene*	<0.100	0.100	10/13/2014	ND	1.67	83.4	2.00	2.16		
Ethylbenzene*	<0.100	0.100	10/13/2014	ND	1.60	79.9	2.00	3.62		
Total Xylenes*	0.697	0.300	10/13/2014	ND	4.77	79.5	6.00	3.41		
Total BTEX	0.697	0.600	10/13/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	<16.0	16.0	10/09/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	70.5	50.0	10/09/2014	ND	176	87.8	200	1.23		
DRO >C10-C28	14600	50.0	10/09/2014	ND	178	89.0	200	0.304		

Surrogate: 1-Chlorooctane 108 % 47.2-157

Surrogate: 1-Chlorooctadecane 666 % 52.1-176

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Received:	10/09/2014	Sampling Date:	10/06/2014
Reported:	10/14/2014	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #6H	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 1' (H403090-08)

BTEX 8021B		mg/kg		Analyzed By: ms				A-01	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2014	ND	1.73	86.7	2.00	1.98	
Toluene*	<0.050	0.050	10/13/2014	ND	1.67	83.4	2.00	2.16	
Ethylbenzene*	0.058	0.050	10/13/2014	ND	1.60	79.9	2.00	3.62	
Total Xylenes*	<0.150	0.150	10/13/2014	ND	4.77	79.5	6.00	3.41	
Total BTEX	<0.300	0.300	10/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	16.0	16.0	10/09/2014	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	10/10/2014	ND	186	92.8	200	4.31	
DRO >C10-C28	56.3	10.0	10/10/2014	ND	181	90.4	200	2.00	

Surrogate: 1-Chlorooctane 97.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 107 % 52.1-176

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Received:	10/09/2014	Sampling Date:	10/06/2014
Reported:	10/14/2014	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #6H	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ SURFACE (H403090-09)

BTEX 8021B		mg/kg		Analyzed By: ms				A-01	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	10/13/2014	ND	1.73	86.7	2.00	1.98	
Toluene*	<0.100	0.100	10/13/2014	ND	1.67	83.4	2.00	2.16	
Ethylbenzene*	<0.100	0.100	10/13/2014	ND	1.60	79.9	2.00	3.62	
Total Xylenes*	0.708	0.300	10/13/2014	ND	4.77	79.5	6.00	3.41	
Total BTEX	0.708	0.600	10/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	<16.0	16.0	10/09/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	82.0	50.0	10/10/2014	ND	186	92.8	200	4.31	
DRO >C10-C28	16700	50.0	10/10/2014	ND	181	90.4	200	2.00	

Surrogate: 1-Chlorooctane 107 % 47.2-157

Surrogate: 1-Chlorooctadecane 1150 % 52.1-176

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Received:	10/09/2014	Sampling Date:	10/06/2014
Reported:	10/14/2014	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #6H	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 1' (H403090-10)

BTEX 8021B		mg/kg		Analyzed By: ms				A-01	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2014	ND	1.73	86.7	2.00	1.98	
Toluene*	<0.050	0.050	10/13/2014	ND	1.67	83.4	2.00	2.16	
Ethylbenzene*	<0.050	0.050	10/13/2014	ND	1.60	79.9	2.00	3.62	
Total Xylenes*	<0.150	0.150	10/13/2014	ND	4.77	79.5	6.00	3.41	
Total BTEX	<0.300	0.300	10/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	<16.0	16.0	10/09/2014	ND	416	104	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	10/10/2014	ND	186	92.8	200	4.31	
DRO >C10-C28	34.2	10.0	10/10/2014	ND	181	90.4	200	2.00	

Surrogate: 1-Chlorooctane 101 % 47.2-157
Surrogate: 1-Chlorooctadecane 110 % 52.1-176

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Received:	10/09/2014	Sampling Date:	10/06/2014
Reported:	10/14/2014	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #6H	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ SURFACE (H403090-11)

BTEX 8021B		mg/kg		Analyzed By: ms				A-01	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	10/13/2014	ND	1.73	86.7	2.00	1.98	
Toluene*	<0.100	0.100	10/13/2014	ND	1.67	83.4	2.00	2.16	
Ethylbenzene*	<0.100	0.100	10/13/2014	ND	1.60	79.9	2.00	3.62	
Total Xylenes*	0.871	0.300	10/13/2014	ND	4.77	79.5	6.00	3.41	
Total BTEX	0.871	0.600	10/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	<16.0	16.0	10/09/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	77.6	50.0	10/10/2014	ND	186	92.8	200	4.31	
DRO >C10-C28	16900	50.0	10/10/2014	ND	181	90.4	200	2.00	

Surrogate: 1-Chlorooctane 112 % 47.2-157

Surrogate: 1-Chlorooctadecane 638 % 52.1-176

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Received:	10/09/2014	Sampling Date:	10/06/2014
Reported:	10/14/2014	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #6H	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 1' (H403090-12)

BTEX 8021B		mg/kg		Analyzed By: ms				A-01	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2014	ND	1.73	86.7	2.00	1.98	
Toluene*	<0.050	0.050	10/13/2014	ND	1.67	83.4	2.00	2.16	
Ethylbenzene*	<0.050	0.050	10/13/2014	ND	1.60	79.9	2.00	3.62	
Total Xylenes*	<0.150	0.150	10/13/2014	ND	4.77	79.5	6.00	3.41	
Total BTEX	<0.300	0.300	10/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	<16.0	16.0	10/09/2014	ND	416	104	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	10/10/2014	ND	186	92.8	200	4.31	
DRO >C10-C28	91.7	10.0	10/10/2014	ND	181	90.4	200	2.00	

Surrogate: 1-Chlorooctane 104 % 47.2-157
Surrogate: 1-Chlorooctadecane 112 % 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:	10/09/2014	Sampling Date:	10/06/2014
Reported:	10/14/2014	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #6H	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ SURFACE (H403090-13)

BTEX 8021B		mg/kg		Analyzed By: ms				A-01	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	10/13/2014	ND	1.73	86.7	2.00	1.98	
Toluene*	<0.100	0.100	10/13/2014	ND	1.67	83.4	2.00	2.16	
Ethylbenzene*	<0.100	0.100	10/13/2014	ND	1.60	79.9	2.00	3.62	
Total Xylenes*	0.739	0.300	10/13/2014	ND	4.77	79.5	6.00	3.41	
Total BTEX	0.739	0.600	10/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	32.0	16.0	10/09/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	76.1	50.0	10/10/2014	ND	186	92.8	200	4.31	
DRO >C10-C28	15100	50.0	10/10/2014	ND	181	90.4	200	2.00	

Surrogate: 1-Chlorooctane 111 % 47.2-157

Surrogate: 1-Chlorooctadecane 690 % 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:	10/09/2014	Sampling Date:	10/06/2014
Reported:	10/14/2014	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #6H	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 1' (H403090-14)

BTEX 8021B		mg/kg		Analyzed By: ms				A-01	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2014	ND	1.73	86.7	2.00	1.98	
Toluene*	<0.050	0.050	10/13/2014	ND	1.67	83.4	2.00	2.16	
Ethylbenzene*	0.097	0.050	10/13/2014	ND	1.60	79.9	2.00	3.62	
Total Xylenes*	0.195	0.150	10/13/2014	ND	4.77	79.5	6.00	3.41	
Total BTEX	<0.300	0.300	10/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	<16.0	16.0	10/09/2014	ND	416	104	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	10/10/2014	ND	186	92.8	200	4.31	
DRO >C10-C28	91.3	10.0	10/10/2014	ND	181	90.4	200	2.00	

Surrogate: 1-Chlorooctane 101 % 47.2-157
Surrogate: 1-Chlorooctadecane 113 % 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:	10/09/2014	Sampling Date:	10/06/2014
Reported:	10/14/2014	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #6H	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ SURFACE (H403090-15)

BTEX 8021B		mg/kg		Analyzed By: ms				A-01	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	10/13/2014	ND	1.73	86.7	2.00	1.98	
Toluene*	<0.100	0.100	10/13/2014	ND	1.67	83.4	2.00	2.16	
Ethylbenzene*	<0.100	0.100	10/13/2014	ND	1.60	79.9	2.00	3.62	
Total Xylenes*	0.923	0.300	10/13/2014	ND	4.77	79.5	6.00	3.41	
Total BTEX	0.923	0.600	10/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	<16.0	16.0	10/09/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	71.1	50.0	10/10/2014	ND	182	90.8	200	1.56	
DRO >C10-C28	14000	50.0	10/10/2014	ND	184	91.9	200	3.04	

Surrogate: 1-Chlorooctane 100 % 47.2-157

Surrogate: 1-Chlorooctadecane 634 % 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:	10/09/2014	Sampling Date:	10/06/2014
Reported:	10/14/2014	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #6H	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 1' (H403090-16)

BTEX 8021B		mg/kg		Analyzed By: ms				A-01	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2014	ND	1.91	95.3	2.00	3.60	
Toluene*	0.065	0.050	10/13/2014	ND	1.81	90.4	2.00	3.47	
Ethylbenzene*	0.140	0.050	10/13/2014	ND	1.72	86.1	2.00	3.32	
Total Xylenes*	0.493	0.150	10/13/2014	ND	5.17	86.1	6.00	3.57	
Total BTEX	0.698	0.300	10/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	16.0	16.0	10/09/2014	ND	416	104	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	27.4	10.0	10/10/2014	ND	182	90.8	200	1.56	
DRO >C10-C28	1040	10.0	10/10/2014	ND	184	91.9	200	3.04	

Surrogate: 1-Chlorooctane 103 % 47.2-157

Surrogate: 1-Chlorooctadecane 133 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- A-01 Sample results may be biased low due to headspace in sampling container.
- 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



Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

142

Company Name: **BBC International, Inc.** P.O. #: _____

Project Manager: **Cliff Brunson** Company: _____

Address: **P.O. Box 805** Attn: _____

City: **Hobbs** State: **NM** Zip: **88241**

Phone #: **575-397-6388** Fax #: **575-397-0397**

Project #: _____ Project Owner: **OKY**

Project Name: **CYANUS 33 FED 6H** City: _____

Project Location: _____ State: _____ Zip: _____

Sampler Name: **ROGER H.** Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	TPH	BTEX	CL-
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL					
H40390	SP 10 SURFACE	C	1									10.6.14	8:15			
	SP 2 SURFACE	C	1									10.6.14	8:35			
	SP 3 SURFACE	C	1									10.6.14	9:20			
	SP 4 SURFACE	C	1									10.6.14	9:28			
	SP 5 SURFACE	C	1									10.6.14	9:43			
	SP 6 SURFACE	C	1									10.6.14	9:59			
	SP 7 SURFACE	C	1									10.6.14	10:15			
	SP 8 SURFACE	C	1									10.6.14	10:29			
	SP 9 SURFACE	C	1									10.6.14	11:00			
	SP 10 SURFACE	C	1									10.6.14	11:34			

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Relinquished By: **SP 10 SURFACE** Date: **10.10.14** Received By: **OKY**

Relinquished By: **SP 9 SURFACE** Date: **10.9.14** Received By: **OKY**

Delivered By: **WLS** Date: **10.9.14** Time: **9:50** Received By: **Cliff Brunson**

Sampler - UPS - Bus - Other: **5.20** Sample Condition: Intact Cool Yes No

CHECKED BY: **WLS**

REMARKS: ***Sars have headspace**

Phone Result: Yes No Add'l Phone #: _____

Fax Result: Yes No Add'l Fax #: _____

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

#54



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2012

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.
 Project Manager: Cliff Brunson
 Address: P.O. Box 805
 City: Hobbs
 State: NM Zip: 88241
 Phone #: 575-397-6388 Fax #: 575-397-0397
 Project #: _____ Project Owner: _____
 Project Name: CYPRESS 33 FED WY
 Project Location: _____
 Sampler Name: Paeza H.
 FOR LAB USE ONLY

P.O. #: _____ Company: _____
 Attn: _____ Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	TPH	BTEX	CL
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
H40307D																
11	SPE @ Surface		1								10-6-14	1212				
12	SPE @ Surface		1								10-6-14	1728				
13	SPE @ Surface		1								10-6-14	100				
14	SPE @ Surface		1								10-6-14	111				
15	SPE @ Surface		1								10-6-14	139				
16	SPE @ Surface		1								10-6-14	147				

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Relinquished By: *Boyer Hernandez*
 Date: 10-10-14
 Received By: *Patricia Henderson*
 Date: 10-9-14
 Time: 4:30
 Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: 5.22
 Sample Condition: Yes No
 Cool Antact: Yes No
 CHECKED BY: *PH*

REMARKS:
 Phone Result: Yes No
 Fax Result: Yes No
 Add'l Phone #: _____
 Add'l Fax #: _____

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

#54



April 21, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 33 FEDERAL #6H

Enclosed are the results of analyses for samples received by the laboratory on 04/21/15 10:30.

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".

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:	04/21/2015	Sampling Date:	04/20/2015
Reported:	04/21/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #6H	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 3 (H501027-01)

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	04/21/2015	ND	210	105	200	0.511		
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	228	114	200	2.63		
<i>Surrogate: 1-Chlorooctane</i>		<i>100 %</i>	<i>47.2-157</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>99.3 %</i>	<i>52.1-176</i>							

Sample ID: SP 4 (H501027-02)

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	04/21/2015	ND	210	105	200	0.511		
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	228	114	200	2.63		
<i>Surrogate: 1-Chlorooctane</i>		<i>99.8 %</i>	<i>47.2-157</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>98.1 %</i>	<i>52.1-176</i>							

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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:	04/21/2015	Sampling Date:	04/20/2015
Reported:	04/21/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #6H	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

Sample ID: SP 5 (H501027-03)

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	04/21/2015	ND	210	105	200	0.511	
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	228	114	200	2.63	

Surrogate: 1-Chlorooctane 107 % 47.2-157

Surrogate: 1-Chlorooctadecane 102 % 52.1-176

Sample ID: SP 6 (H501027-04)

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	04/21/2015	ND	210	105	200	0.511	
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	228	114	200	2.63	

Surrogate: 1-Chlorooctane 106 % 47.2-157

Surrogate: 1-Chlorooctadecane 99.9 % 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



Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.
 Project Manager: Cliff Brunson
 Address: P.O. Box 805
 City: Hobbs State: NM zip: 88241
 Phone #: 575-397-6388 Fax #: 575-397-0397
 Project #: Project Owner: Oxy
 Project Name: CYPRESS 33 Fed 6H
 Project Location:
 Sampler Name: Roger Hernandez
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H501027	SP3	G	1			<input checked="" type="checkbox"/>					4-20-15	1:00	<input checked="" type="checkbox"/>	
	SP4	G	1			<input checked="" type="checkbox"/>					4-20-15	1:05	<input checked="" type="checkbox"/>	
	SP5	G	1			<input checked="" type="checkbox"/>					4-20-15	1:15	<input checked="" type="checkbox"/>	
	SP6	G	1			<input checked="" type="checkbox"/>					4-20-15	1:20	<input checked="" type="checkbox"/>	
	SP7	G	1			<input checked="" type="checkbox"/>								

Relinquished By: [Signature] Date: 4-20-15 Time: 5:00
 Received By: Jennifer Gekky Date: 4-20-15 Time: 10:30
 Delivered By: (Circle One) Jennifer Gekky
 Sampler - UPS - Bus - Other: -3:20
 CHECKED BY: [Signature] (Initials)
 REMARKS: Rush

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

#54

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Monday, November 03, 2014 1:39 PM
To: Cliff P. Brunson
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis; Patterson, Heather, EMNRD
Subject: RE: OXY - Cypress 33 Federal #6H - Remediation Plan

RE: OXY USA * Cypress 33 Fed Com 6H * 30-015-41557 * A-33-23s-29e * Eddy County, NM
NMOCD Tracking Number: 2RP-2273 * Date of release: 4/28/14

Cliff,

Your proposal for remediation of the above referenced release is approved. Federal sites will 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 P. Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Wednesday, October 29, 2014 5:41 PM
To: Bratcher, Mike, EMNRD
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY - Cypress 33 Federal #6H - Remediation Plan

Mike,

This e-mail is to confirm our conversation on October 28, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. If you will review the revised diagram on the attachment, it depicts the remediation plan and the areas and depths of the excavations per our discussions. After the soil is excavated, the site will be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated.

Thanks, Cliff

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
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com

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Kathy Purvis

From: Hughes, Solomon <shughes@blm.gov>
Sent: Thursday, October 30, 2014 11:02 AM
To: Cliff P. Brunson
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Re: OXY - Cypress 33 Federal #6H - Remediation Plan

Cliff,

This plan is approved with the following amendment:

Confirmation samples need to be taken in areas SP3-SP6. These samples should show a maximum of 5000ppm TPH. If these levels are not reached, further excavation will be required.

Best,
Sol

Sol Hughes

Environmental Protection Division
Bureau of Land Management
620 E. Greene St
Carlsbad, NM

Office: 575.234.5951
Cell: 575.499.3378

On Thu, Oct 30, 2014 at 10:50 AM, Cliff P. Brunson <cbrunson@bbcinternational.com> wrote:
Sol,

The new format is also used on this site as well.

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:
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From: "Hughes, Solomon" <shughes@blm.gov>
Date: Thursday, October 30, 2014 at 10:41 AM
To: Cliff Brunson <cbrunson@bbcinternational.com>
Cc: C J Summers <Chancey_Summers@oxy.com>, Ken Swinney <kswinney@bbcinternational.com>, Jennifer Gilkey <jgilkey@bbcinternational.com>, Kathy Purvis <kathy@bbcinternational.com>
Subject: Re: OXY - Cypress 33 Federal #6H - Remediation Plan

No excavation info.

Sol Hughes

Environmental Protection Division
Bureau of Land Management
620 E. Greene St
Carlsbad, NM

Office: 575.234.5951
Cell: 575.499.3378

On Wed, Oct 29, 2014 at 4:48 PM, Cliff P. Brunson <cbrunson@bbcinternational.com> wrote:
Sol,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Mike Bratcher of the NMOCD.

If you will review the diagram on the attachment, it depicts the remediation plan and the areas and depths of the excavations. After the soil is excavated, the site will 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
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