

Closure Report

Site Description

Site Name:	Cypress 34 Federal #1 CTB
Company:	Oxy Permian Ltd.
Legal Description:	U/L P, Section 34, T23S, R29E
County:	Eddy County, NM
GPS Coordinates:	N 32.25508° W 103.96647°

Release Data

Date of Release:	01/05/2016 and 02/28/2016
Type of Release:	Oil and Produced water, Oil and Produced water
Source of Release:	Head switch fail, Dump line clog
Volume of Release:	15 bbls oil, 25 bbls pw; 10 bbls oil, 10 bbls pw
Volume Recovered:	36 bbls, 15 bbls

Remediation Specifications

Remediation Parameters:	Leak 1: Excavate 1'. Take add'l samples at SP3 to achieve regulatory levels as practicable. Leak 2: Surface scrape the area around SP3. Around SP1 & SP2, excavate 1 ft. Take add'l samples at SP2 to achieve regulatory levels. Backfill the site with clean soil.
Remediation Activities:	05/04/2016 to 06/02/2016

Plan Sent to OCD:	05/03/2016	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	05/13/2016	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	n/a	Verbal approval at meeting w/Shelly Tucker
BLM Approval of Plan:	05/03/2016	Verbal approval at meeting w/Shelly Tucker

Supporting Documentation

Initial C-141	Signed 01/14/2016, 03/09/2016
Final C-141	Signed 06/13/2016
Site Diagram	March 2016
Groundwater Plot	75'-100'
TOPO Maps	March 2016
Lab Summary	3/8/16, 4/11/16, 5/19/16; 3/7/16-3/8/16, 5/20/16
Lab Analysis	3/8/16, 4/11/16, 5/19/16; 3/7/16-3/8/16, 5/20/16
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.

06/21/2016

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	Cypress 34 Federal #1 CTB	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-35053

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	34	23S	29E					Eddy County, NM

Latitude N 32.25497° Longitude W 103.96603°

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	15 bbls oil, 25 bbls produced water	Volume Recovered	36 bbls
Source of Release	Head switch was full of trash and failed causing a tank spill	Date and Hour of Occurrence	01/05/2016	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, Kelly Jones-NMOCD		
By Whom?	Jennifer Gilkey @ BBC International	Date and Hour	01/05/2016 @ 4:55 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.*

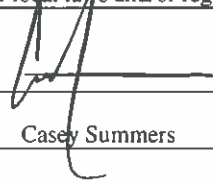
Describe Cause of Problem and Remedial Action Taken.*

A head switch full of trash failed causing a tank to spill 15 bbls of oil and 25 bbls of produced water onto the ground. A vacuum truck recovered 36 bbls of fluids and the head switch was cleaned out.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 150' x 60' on location around the tanks inside the containment. 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:		OIL CONSERVATION DIVISION	
Printed Name:	Casey Summers	Approved by Environmental Specialist:	
Title:	NM Environmental Advisor	Approval Date:	Expiration Date:
E-mail Address:	Casey_Summers@oxy.com	Conditions of Approval:	
Date:	1-14-16	Phone:	(575) 513-8289
		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

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Facility Name	Cypress 34 Federal #1CTB	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	
		API No. 30-015-35053	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	34	23S	29E	460	South	660	East	Eddy

Latitude N 32.25508° Longitude W 103.96647°

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	10 bbls oil, 10 bbls produced water	Volume Recovered	15 bbls
Source of Release	A dump line clog forced fluids to spill out of the test heater	Date and Hour of Occurrence	02/28/2016	Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?	Kathy @BBC International.com	Date and Hour	03/02/2016 @ 11:37 am		
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.*

X


Describe Cause of Problem and Remedial Action Taken.*

A dump line clog forced 10 bbls of oil and 10 bbls of produced water to spill out of the test heater. A vacuum truck recovered 15 bbls of fluids and the dump line was unclogged.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 90' x 45' on location inside containment. Remediation will be completed in accordance with a remediation plan approved by NMOCD and the BLM.

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Printed Name:	Casey Summers	Approved by Environmental Specialist:	
Title:	NM Environmental Advisor	Approval Date:	Expiration Date:
E-mail Address:	Casey.Summers@oxy.com	Conditions of Approval:	
Date:	3-9-16	Phone:	(575) 513-8289
		Attached <input type="checkbox"/>	

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Facility Name	Cypress 34 Federal #1 CTB	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-35053

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Printed Name: Casey Summers	Approved by Environmental Specialist:		
Title: NM Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: Casey_Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 6-13-16 Phone: (575) 513-8289			

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Surface Owner	BLM	Mineral Owner		API No.	30-015-35053
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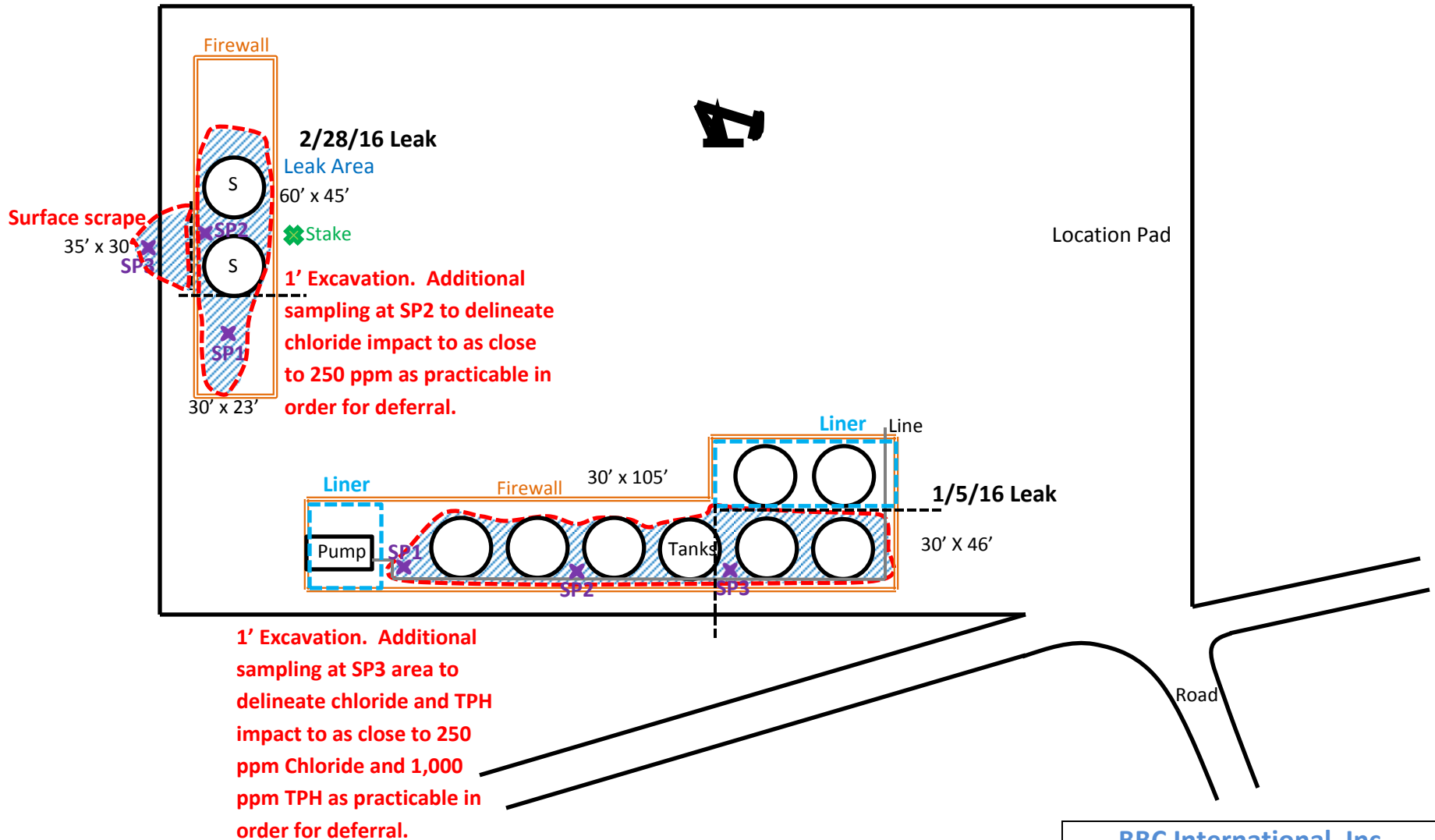
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Printed Name: Casey Summers	Approved by Environmental Specialist:		
Title: NM Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: Casey.Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 6-13-16	Phone: (575) 513-8289		

* Attach Additional Sheets If Necessary



Oxy

Cypress 34 Federal #1 CTB (1/5/16 and 2/28/16)



2/28/16 Leak
Leak Area
60' x 45'

Surface scrape
35' x 30'

1' Excavation. Additional sampling at SP2 to delineate chloride impact to as close to 250 ppm as practicable in order for deferral.

1' Excavation. Additional sampling at SP3 area to delineate chloride and TPH impact to as close to 250 ppm Chloride and 1,000 ppm TPH as practicable in order for deferral.

U/L P, Section 34, T23S, R29E
Eddy County, NM
GPS at stake: N 32.25508° W 103.96647°
API# 30-015-35053

BBC International, Inc.	
Oxy	
Cypress 34 Federal #1 CTB	
Date: 03/08/2016	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2016



Groundwater Plot

Oxy Cypress 34 Federal #1 CTB

County
Eddy County

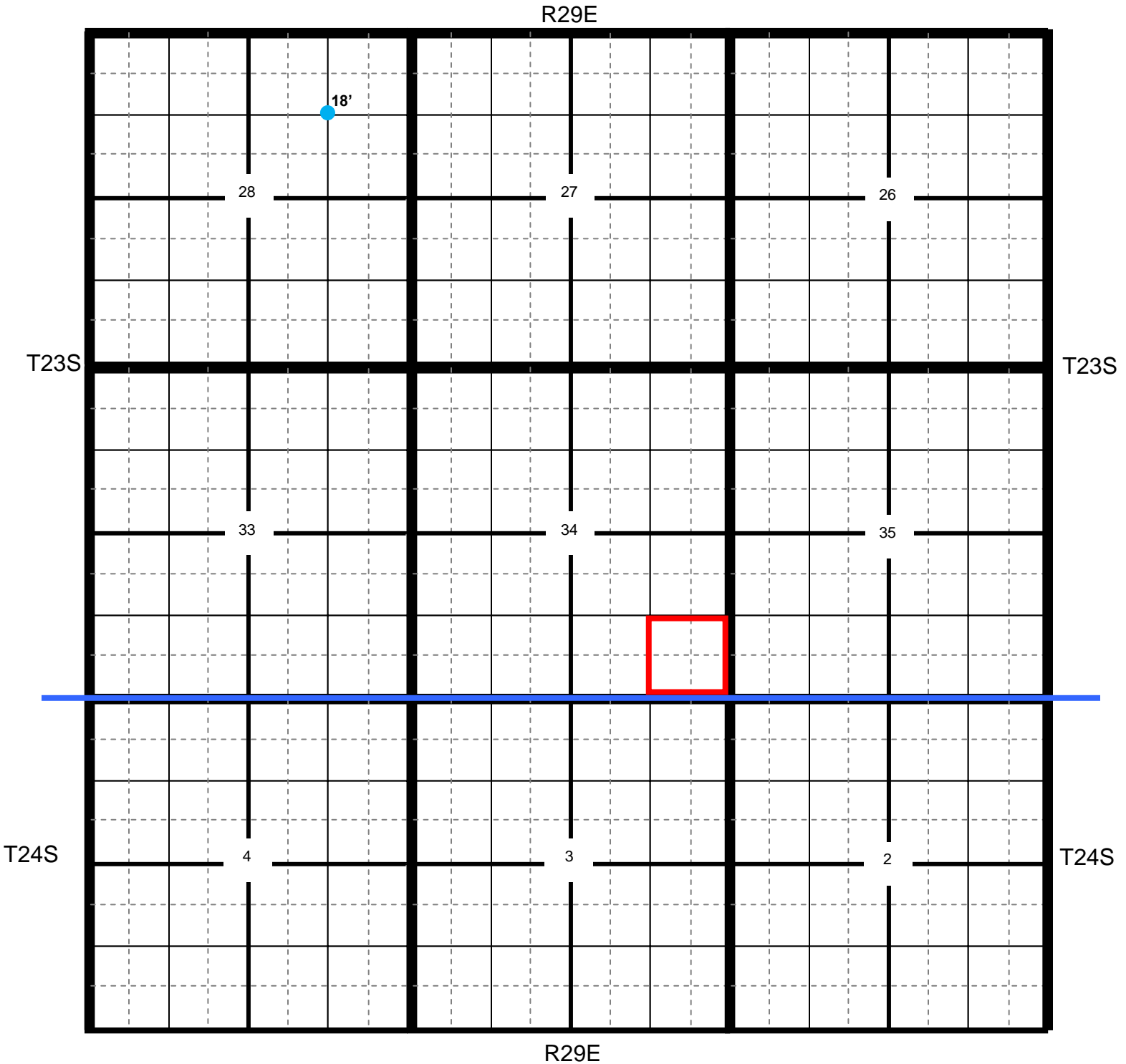
Unit Letter
P

Section
34

Township
23S

Range
29E

Trend Map 75'-100'



📍 Location

● OCD

● USGS

● SEO

● All Databases

Oxy Cypress 34 Federal #1 CTB

County Eddy Unit Letter P Section 34 Township 23S Range 29E

Trend Map 75'-100'

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

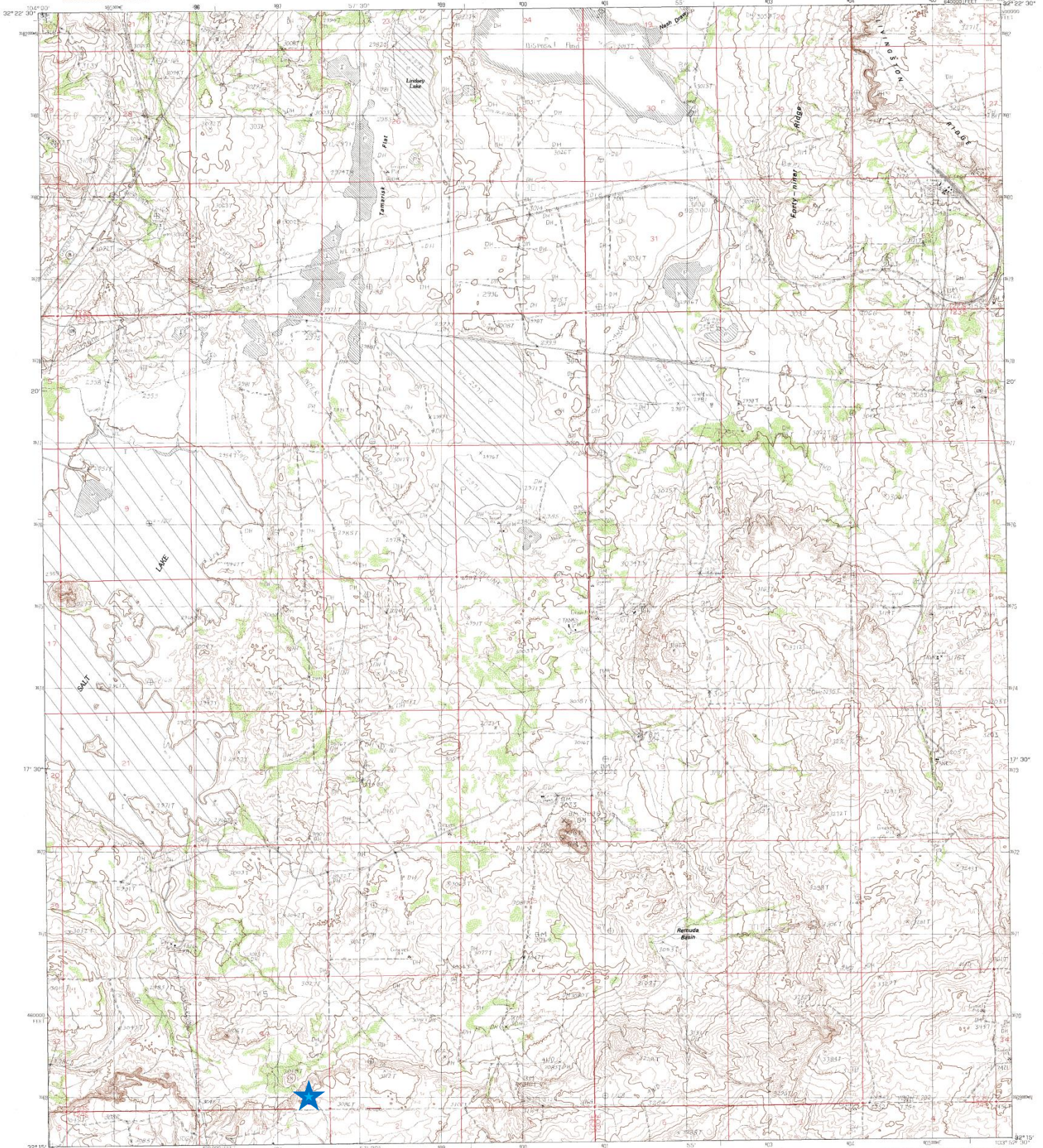
4

Oxy

Cypress 34 Federal #1 CTB

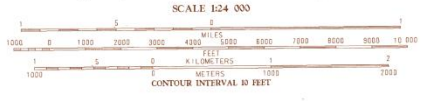
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

REMUDA BASIN QUADRANGLE
NEW MEXICO: HEDDY CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY
CONTROL BY: DATA: MONITORING
COMPILED FROM AERIAL PHOTOGRAPHS TAKEN: 1967
FIELD CHECKED: 1968 MAP REVISED: 1968
PROJECTION: TRANSVERSE MERCATOR
GRID DIMENSIONS: UNIVERSAL TRANSVERSE MERCATOR ZONE 12
ADDITIONAL STATE GRID TICS: NEW MEXICO 400,000
UTM GRID DIMENSIONS: 6° 34' EAST
VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1955
HORIZONTAL DATUM: NORTH AMERICAN DATUM
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 landholdings 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.



NEW MEXICO
QUADRANGLE LOCATION

1	2	3	Indian Run
4	5	6	Los Hornos
7	8	9	Remuda Basin
10	11	12	Remuda Basin

ADJOINING 7.5 QUADRANGLE NAMES

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

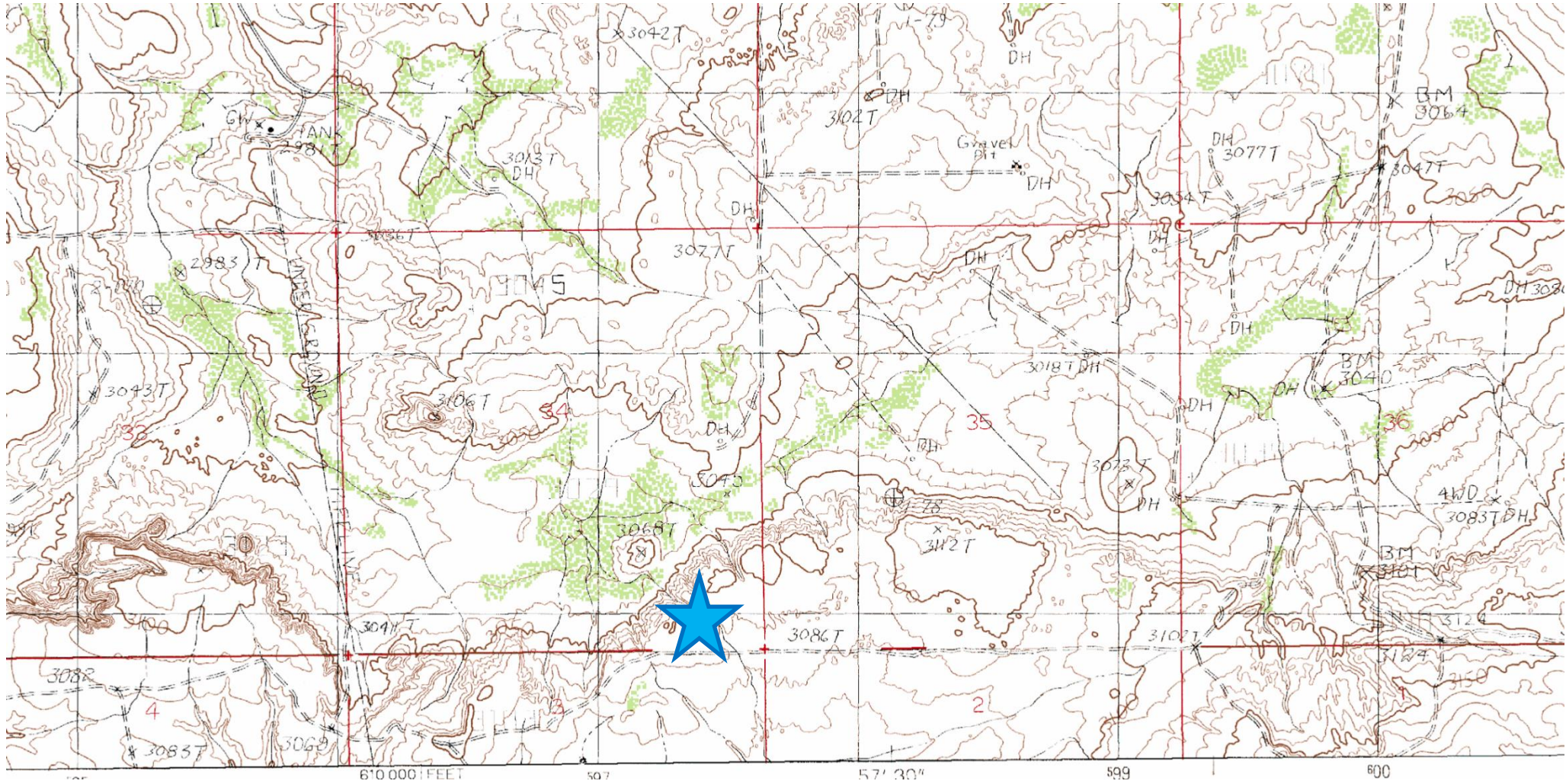
REMUDA BASIN, NEW MEXICO
PROVISIONAL EDITION 1985

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225
OR RESTON, VIRGINIA 22089

320346-T424

Oxy

Cypress 34 Federal #1 CTB



**Laboratory Analytical Results Summary
Cypress 34 Federal #1 CTB (1/5/16 leak)**

		Sample	SP1 @ 1'
Analyte	Method	Date	3/8/16
			mg/Kg
Benzene	BTEX 8021B		<0.100
Toluene	BTEX 8021B		0.512
Ethylbenzene	BTEX 8021B		0.1
Total Xylenes	BTEX 8021B		5.49
Total BTEX	BTEX 8021B		6
Chloride	SM4500Cl-B		8000
GRO	TPH 8015M		223
DRO	TPH 8015M		3690

		Sample	SP2 @ 1'
Analyte	Method	Date	3/8/16
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		0.62
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		6.13
Total BTEX	BTEX 8021B		6.75
Chloride	SM4500Cl-B		6930
GRO	TPH 8015M		107
DRO	TPH 8015M		2130

		Sample	SP3 @ 1'
Analyte	Method	Date	3/8/16
			mg/Kg
Benzene	BTEX 8021B		<1.00
Toluene	BTEX 8021B		0.323
Ethylbenzene	BTEX 8021B		<0.100
Total Xylenes	BTEX 8021B		4.66
Total BTEX	BTEX 8021B		4.98
Chloride	SM4500Cl-B		5730
GRO	TPH 8015M		190
DRO	TPH 8015M		3270

**Laboratory Analytical Results Summary
Cypress 34 Federal #1 CTB**

		Sample	SP1 @ 1'
Analyte	Method	Date	4/11/16
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		0.597
Total BTEX	BTEX 8021B		0.63
Chloride	SM4500Cl-B		6130
GRO	TPH 8015M		30.4
DRO	TPH 8015M		1730

		Sample	SP2 @ 2'
Analyte	Method	Date	4/11/16
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		0.061
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		0.68
Total BTEX	BTEX 8021B		0.741
Chloride	SM4500Cl-B		3720
GRO	TPH 8015M		135
DRO	TPH 8015M		7180

		Sample	SP3 @ 2'
Analyte	Method	Date	4/11/16
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		0.056
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		0.748
Total BTEX	BTEX 8021B		0.803
Chloride	SM4500Cl-B		4400
GRO	TPH 8015M		123
DRO	TPH 8015M		6430

**Laboratory Analytical Results Summary
Cypress 34 Federal #1 CTB (1/5/16 leak)**

		Sample	SP3 @ 4'	SP3 @ 7'	SP3 @ 8'
Analyte	Method	Date	5/19/16	5/19/16	5/19/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.153	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.727	<0.150	<0.150
Total BTEX	BTEX 8021B		0.879	<0.300	<0.300
Chloride	SM4500Cl-B		6640	1680	64
GRO	TPH 8015M		12.2	<10.0	<10.0
DRO	TPH 8015M		625	41.8	<10.0

**Laboratory Analytical Results Summary
Cypress 34 Federal #1 CTB (2/28/16 leak)**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	3/7/16	3/7/16	3/7/16	3/8/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.071	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		336	880	1840	2360
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	20.7	165	104

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	3/7/16	3/7/16	3/7/16	3/8/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	0.051
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		416	768	688	3040
GRO	TPH 8015M		<10.0	<10.0	<10.0	12.5
DRO	TPH 8015M		15.2	<10.0	<10.0	374

		Sample	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	3/7/16	3/7/16
			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	SM4500Cl-B		<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		148	151

Laboratory Analytical Results Summary
Cypress 34 Federal #1 CTB (2/28/16 leak)

		Sample	SP2 @ 4'	SP2 @ 5'
Analyte	Method	Date	5/19/16	5/20/16
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		1720	256



March 17, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 34 FEDERAL #1 CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/11/16 13:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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:	03/11/2016	Sampling Date:	03/08/2016
Reported:	03/17/2016	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

Sample ID: SP 1 @ 1' (H600542-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	03/17/2016	ND	1.97	98.6	2.00	1.09	
Toluene*	0.512	0.100	03/17/2016	ND	1.89	94.4	2.00	2.12	
Ethylbenzene*	<0.100	0.100	03/17/2016	ND	1.66	83.1	2.00	2.82	
Total Xylenes*	5.49	0.300	03/17/2016	ND	5.13	85.5	6.00	2.14	
Total BTEX	6.00	0.600	03/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 140 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	03/17/2016	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	223	10.0	03/15/2016	ND	219	109	200	10.7	
DRO >C10-C28	3690	10.0	03/15/2016	ND	239	119	200	13.3	

Surrogate: 1-Chlorooctane 109 % 35-147
Surrogate: 1-Chlorooctadecane 129 % 28-171

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:	03/11/2016	Sampling Date:	03/08/2016
Reported:	03/17/2016	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

Sample ID: SP 2 @ 1' (H600542-02)

BTEX 8021B		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	03/17/2016	ND	1.97	98.6	2.00	1.09	
Toluene*	0.620	0.050	03/17/2016	ND	1.89	94.4	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/17/2016	ND	1.66	83.1	2.00	2.82	
Total Xylenes*	6.13	0.150	03/17/2016	ND	5.13	85.5	6.00	2.14	
Total BTEX	6.75	0.300	03/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 176 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6930	16.0	03/17/2016	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	107	10.0	03/15/2016	ND	201	100	200	10.0	
DRO >C10-C28	2130	10.0	03/15/2016	ND	216	108	200	9.28	

Surrogate: 1-Chlorooctane 113 % 35-147

Surrogate: 1-Chlorooctadecane 139 % 28-171

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:	03/11/2016	Sampling Date:	03/08/2016
Reported:	03/17/2016	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

Sample ID: SP 3 @ 1' (H600542-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	03/17/2016	ND	1.97	98.6	2.00	1.09	
Toluene*	0.323	0.100	03/17/2016	ND	1.89	94.4	2.00	2.12	
Ethylbenzene*	<0.100	0.100	03/17/2016	ND	1.66	83.1	2.00	2.82	
Total Xylenes*	4.66	0.300	03/17/2016	ND	5.13	85.5	6.00	2.14	
Total BTEX	4.98	0.600	03/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5730	16.0	03/17/2016	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	190	10.0	03/15/2016	ND	201	100	200	10.0	
DRO >C10-C28	3270	10.0	03/15/2016	ND	216	108	200	9.28	

Surrogate: 1-Chlorooctane 123 % 35-147
Surrogate: 1-Chlorooctadecane 153 % 28-171

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*=Accredited Analyte

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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.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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

10/1

Company Name: BBC International, Inc.		P.O. #:		BILL TO		ANALYSIS REQUEST																													
Project Manager: Cliff Brunson		Company:																																	
Address: P.O. Box 805		Attn:																																	
City: Hobbs		Address:																																	
Phone #: 575-397-6388		City:																																	
Fax #: 575-397-0397		State:																																	
Project #: _____		Zip:																																	
Project Name: <i>CROSS 34 Pad 1 (1-5-16)</i>		Phone #:																																	
Project Location: _____		Fax #:																																	
Sampler Name: <i>PAUL HERNANDEZ</i>		PRESERV:		SAMPLING																															
FOR LAB USE ONLY		MATRIX		DATE		TIME																													
Lab I.D. _____		Sample I.D. _____		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		TPH		CHLORIDE		BTEX	
<i>H00054</i>		<i>SP101</i>		<i>V</i>		<i>11</i>		<i>V</i>		<i>V</i>		<i>V</i>		<i>V</i>		<i>V</i>		<i>V</i>		<i>V</i>		<i>V</i>		<i>V</i>		<i>3-6-16</i>		<i>H055</i>		<i>V</i>		<i>V</i>			
<i>3</i>		<i>SP201</i>		<i>V</i>		<i>11</i>		<i>V</i>		<i>V</i>		<i>V</i>		<i>V</i>		<i>V</i>		<i>V</i>		<i>V</i>		<i>V</i>		<i>V</i>		<i>3-3-16</i>		<i>H05</i>		<i>V</i>		<i>V</i>			
<i>3</i>		<i>SP301</i>		<i>V</i>		<i>11</i>		<i>V</i>		<i>V</i>		<i>V</i>		<i>V</i>		<i>V</i>		<i>V</i>		<i>V</i>		<i>V</i>		<i>V</i>		<i>3-8-16</i>		<i>200</i>		<i>V</i>		<i>V</i>			

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 the client for the 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 90 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *Paul Hernandez* Date: *3-16-16* Time: *3:30pm* Received By: *Paul Hernandez*

Delivered By: (Circle One) UPS - Bus - Other: *-1.82*

Sample Condition: Cool Intact Yes No Yes No

CHECKED BY: *Paul Hernandez*

REMARKS:

Phone Result: Yes No Add'l Phone #:

Fax Result: Yes No Add'l Fax #:

#54



April 21, 2016

Cliff Brunson
BBC International, Inc.
P.O. Box 805
Hobbs, NM 88241

RE: CYPRESS 34 FEDERAL #1 CTB

Enclosed are the results of analyses for samples received by the laboratory on 04/14/16 9:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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:	04/14/2016	Sampling Date:	04/11/2016
Reported:	04/21/2016	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	01/05/16 LEAK	Sample Received By:	Celey D. Keene
Project Location:	SOUTH 128		

Sample ID: SP1 @ 1' (H600814-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2016	ND	1.99	99.4	2.00	3.92	
Toluene*	<0.050	0.050	04/14/2016	ND	1.91	95.6	2.00	3.23	
Ethylbenzene*	<0.050	0.050	04/14/2016	ND	1.74	87.2	2.00	1.99	
Total Xylenes*	0.597	0.150	04/14/2016	ND	5.28	88.0	6.00	2.25	
Total BTEX	0.630	0.300	04/14/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6130	16.0	04/18/2016	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	30.4	10.0	04/14/2016	ND	178	89.0	200	12.3		
DRO >C10-C28	1730	10.0	04/14/2016	ND	206	103	200	16.0	QM-07	

Surrogate: 1-Chlorooctane 98.2 % 35-147

Surrogate: 1-Chlorooctadecane 192 % 28-171

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:	04/14/2016	Sampling Date:	04/11/2016
Reported:	04/21/2016	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	01/05/16 LEAK	Sample Received By:	Celey D. Keene
Project Location:	SOUTH 128		

Sample ID: SP2 @ 2' (H600814-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2016	ND	1.99	99.4	2.00	3.92	
Toluene*	0.061	0.050	04/14/2016	ND	1.91	95.6	2.00	3.23	
Ethylbenzene*	<0.050	0.050	04/14/2016	ND	1.74	87.2	2.00	1.99	
Total Xylenes*	0.680	0.150	04/14/2016	ND	5.28	88.0	6.00	2.25	
Total BTEX	0.741	0.300	04/14/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3720	16.0	04/18/2016	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	135	10.0	04/14/2016	ND	178	89.0	200	12.3		
DRO >C10-C28	7180	10.0	04/14/2016	ND	206	103	200	16.0		

Surrogate: 1-Chlorooctane 110 % 35-147

Surrogate: 1-Chlorooctadecane 204 % 28-171

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:	04/14/2016	Sampling Date:	04/11/2016
Reported:	04/21/2016	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	01/05/16 LEAK	Sample Received By:	Celey D. Keene
Project Location:	SOUTH 128		

Sample ID: SP3 @ 2' (H600814-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2016	ND	1.99	99.4	2.00	3.92	
Toluene*	0.056	0.050	04/14/2016	ND	1.91	95.6	2.00	3.23	
Ethylbenzene*	<0.050	0.050	04/14/2016	ND	1.74	87.2	2.00	1.99	
Total Xylenes*	0.748	0.150	04/14/2016	ND	5.28	88.0	6.00	2.25	
Total BTEX	0.803	0.300	04/14/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	04/18/2016	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	123	10.0	04/14/2016	ND	178	89.0	200	12.3		
DRO >C10-C28	6430	10.0	04/14/2016	ND	206	103	200	16.0		

Surrogate: 1-Chlorooctane 108 % 35-147

Surrogate: 1-Chlorooctadecane 194 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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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.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

1971

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc. P.O. #:
 Project Manager: Cliff Brunson Company: *PRY*
 Address: P.O. Box 805 Attn: *Cady Dancy*
 City: Hobbs State: NM Zip: 88241
 Phone #: 575-397-6388 Fax #: 575-397-0397
 Project #: *CYPROSS 301 Fed # 1 CTB* City:
 Project Name: *CYPROSS 301 Fed # 1 CTB* State: Zip:
 Project Location: *15/10/02* Phone #: Fax #:
 Sampler Name: *BOB WINDY*
 FOR LAB USE ONLY

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					
<i>400814-</i>																
<i>01</i>	<i>SP1011</i>											<i>4-11-16</i>	<i>105</i>			
<i>02</i>	<i>SP202</i>											<i>4-11-16</i>	<i>1175</i>			
<i>03</i>	<i>SP303</i>											<i>4-11-16</i>	<i>1238</i>			

Relinquished By: *[Signature]* Date: *4-13-16* Received By: *[Signature]* Date: *4-13-16*
 Relinquished By: *[Signature]* Date: *4-13-16* Received By: *[Signature]* Date: *4-13-16*
 Delivered By: (Circle One) *UPS* -5:60c *Other:* *Canceled -5:50c*
 Sampler - UPS - Bus - Other: *Canceled -5:50c*
 CHECKED BY: *[Signature]* (Initials) *cdh*
 REMARKS:
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 t Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 #59



May 27, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 34 #1

Enclosed are the results of analyses for samples received by the laboratory on 05/24/16 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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:	05/24/2016	Sampling Date:	05/19/2016
Reported:	05/27/2016	Sampling Type:	Soil
Project Name:	CYPRESS 34 #1	Sampling Condition:	Cool & Intact
Project Number:	LEAK 01/05/16	Sample Received By:	Amanda Ponce
Project Location:	RAW HIDE ROAD		

Sample ID: SP 3 @ 4' (H601135-01)

BTEX 8021B		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2016	ND	2.14	107	2.00	3.91	
Toluene*	<0.050	0.050	05/26/2016	ND	2.15	107	2.00	4.58	
Ethylbenzene*	0.153	0.050	05/26/2016	ND	2.30	115	2.00	2.29	
Total Xylenes*	0.727	0.150	05/26/2016	ND	6.62	110	6.00	0.824	
Total BTEX	0.879	0.300	05/26/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 154 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6640	16.0	05/25/2016	ND	432	108	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	12.2	10.0	05/25/2016	ND	190	94.9	200	5.43	
DRO >C10-C28	625	10.0	05/25/2016	ND	186	92.9	200	16.1	

Surrogate: 1-Chlorooctane 105 % 35-147
Surrogate: 1-Chlorooctadecane 94.5 % 28-171

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:	05/24/2016	Sampling Date:	05/19/2016
Reported:	05/27/2016	Sampling Type:	Soil
Project Name:	CYPRESS 34 #1	Sampling Condition:	Cool & Intact
Project Number:	LEAK 01/05/16	Sample Received By:	Amanda Ponce
Project Location:	RAW HIDE ROAD		

Sample ID: SP 3 @ 7' (H601135-02)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2016	ND	2.14	107	2.00	3.91	
Toluene*	<0.050	0.050	05/26/2016	ND	2.15	107	2.00	4.58	
Ethylbenzene*	<0.050	0.050	05/26/2016	ND	2.30	115	2.00	2.29	
Total Xylenes*	<0.150	0.150	05/26/2016	ND	6.62	110	6.00	0.824	
Total BTEX	<0.300	0.300	05/26/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	05/25/2016	ND	432	108	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	05/25/2016	ND	190	94.9	200	5.43	
DRO >C10-C28	41.8	10.0	05/25/2016	ND	186	92.9	200	16.1	

Surrogate: 1-Chlorooctane 107 % 35-147
Surrogate: 1-Chlorooctadecane 108 % 28-171

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:	05/24/2016	Sampling Date:	05/19/2016
Reported:	05/27/2016	Sampling Type:	Soil
Project Name:	CYPRESS 34 #1	Sampling Condition:	Cool & Intact
Project Number:	LEAK 01/05/16	Sample Received By:	Amanda Ponce
Project Location:	RAW HIDE ROAD		

Sample ID: SP 3 @ 8' (H601135-03)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/26/2016	ND	2.14	107	2.00	3.91		
Toluene*	<0.050	0.050	05/26/2016	ND	2.15	107	2.00	4.58		
Ethylbenzene*	<0.050	0.050	05/26/2016	ND	2.30	115	2.00	2.29		
Total Xylenes*	<0.150	0.150	05/26/2016	ND	6.62	110	6.00	0.824		
Total BTEX	<0.300	0.300	05/26/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 73.6-140

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	05/25/2016	ND	432	108	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	05/25/2016	ND	190	94.9	200	5.43		
DRO >C10-C28	<10.0	10.0	05/25/2016	ND	186	92.9	200	16.1		

Surrogate: 1-Chlorooctane 98.2 % 35-147

Surrogate: 1-Chlorooctadecane 107 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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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.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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

Company Name: **BBC International, Inc.** P.O. #: **BILL TO** ANALYSIS REQUEST
 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** Address:
 Project #: Project Owner: **DRY** City:
 Project Name: **Cypress 31 #1 CTB - Leak 1/5/16** State: Zip:
 Project Location:
 Sampler Name: **Joe Simpson** Phone #: Fax #:

Lab I.D.	Sample I.D.	FOR LAB USE ONLY		DATE	TIME	TPH	BTEX	CL
		(G)RAB OR (C)OMP.	# CONTAINERS					
AL00185	SP304	G	1	5/19/16	1000			
	SP307	G	1	5/19/16	1115			
	SP308	G	1	5/18/16	1145			

Lab I.D.	Sample I.D.	MATRIX							DATE	TIME	TPH	BTEX	CL
		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					

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Relinquished By: *[Signature]* Date: 5/24/16 Time: 4:30
 Received By: *[Signature]* Date: 5/24/16 Time: 4:30
 Delivered By: (Circle One) Corrected 1:01
 Sampler - UPS - Bus - Other: 1c#154
 Sample Condition: Cool Intact Yes No Yes No
 CHECKED BY: (Initials) *[Signature]*
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS:

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



March 17, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 34 FEDERAL #1 CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/11/16 13:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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:	03/11/2016	Sampling Date:	03/07/2016
Reported:	03/17/2016	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

Sample ID: SP 1 @ 1' (H600541-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2016	ND	2.03	102	2.00	1.63	
Toluene*	0.071	0.050	03/16/2016	ND	1.96	98.1	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/16/2016	ND	1.75	87.4	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/16/2016	ND	5.30	88.4	6.00	1.65	
Total BTEX	<0.300	0.300	03/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/17/2016	ND	432	108	400	3.77	

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	03/14/2016	ND	220	110	200	4.67	
DRO >C10-C28	<10.0	10.0	03/14/2016	ND	236	118	200	7.31	

Surrogate: 1-Chlorooctane 82.7 % 35-147
Surrogate: 1-Chlorooctadecane 89.7 % 28-171

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:	03/11/2016	Sampling Date:	03/07/2016
Reported:	03/17/2016	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

Sample ID: SP 1 @ 2' (H600541-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2016	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	03/16/2016	ND	1.96	98.1	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/16/2016	ND	1.75	87.4	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/16/2016	ND	5.30	88.4	6.00	1.65	
Total BTEX	<0.300	0.300	03/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	03/17/2016	ND	432	108	400	3.77	

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	03/14/2016	ND	220	110	200	4.67	
DRO >C10-C28	20.7	10.0	03/14/2016	ND	236	118	200	7.31	

Surrogate: 1-Chlorooctane 81.5 % 35-147

Surrogate: 1-Chlorooctadecane 84.4 % 28-171

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/11/2016	Sampling Date:	03/07/2016
Reported:	03/17/2016	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

Sample ID: SP 1 @ 3' (H600541-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2016	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	03/16/2016	ND	1.96	98.1	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/16/2016	ND	1.75	87.4	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/16/2016	ND	5.30	88.4	6.00	1.65	
Total BTEX	<0.300	0.300	03/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	03/17/2016	ND	432	108	400	3.77	

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	03/15/2016	ND	219	109	200	10.7	
DRO >C10-C28	165	10.0	03/15/2016	ND	239	119	200	13.3	

Surrogate: 1-Chlorooctane 90.9 % 35-147

Surrogate: 1-Chlorooctadecane 84.6 % 28-171

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:	03/11/2016	Sampling Date:	03/08/2016
Reported:	03/17/2016	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

Sample ID: SP 1 @ 4' (H600541-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2016	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	03/16/2016	ND	1.96	98.1	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/16/2016	ND	1.75	87.4	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/16/2016	ND	5.30	88.4	6.00	1.65	
Total BTEX	<0.300	0.300	03/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	03/17/2016	ND	432	108	400	3.77	

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	03/15/2016	ND	219	109	200	10.7	
DRO >C10-C28	104	10.0	03/15/2016	ND	239	119	200	13.3	

Surrogate: 1-Chlorooctane 98.4 % 35-147

Surrogate: 1-Chlorooctadecane 89.4 % 28-171

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:	03/11/2016	Sampling Date:	03/07/2016
Reported:	03/17/2016	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

Sample ID: SP 2 @ 1' (H600541-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2016	ND	2.03	102	2.00	1.63	
Toluene*	<0.050	0.050	03/16/2016	ND	1.96	98.1	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/16/2016	ND	1.75	87.4	2.00	1.92	
Total Xylenes*	<0.150	0.150	03/16/2016	ND	5.30	88.4	6.00	1.65	
Total BTEX	<0.300	0.300	03/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/17/2016	ND	432	108	400	3.77	

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	03/15/2016	ND	219	109	200	10.7	
DRO >C10-C28	15.2	10.0	03/15/2016	ND	239	119	200	13.3	

Surrogate: 1-Chlorooctane 93.4 % 35-147

Surrogate: 1-Chlorooctadecane 88.7 % 28-171

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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:	03/11/2016	Sampling Date:	03/07/2016
Reported:	03/17/2016	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

Sample ID: SP 2 @ 2' (H600541-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2016	ND	1.97	98.6	2.00	1.09	
Toluene*	<0.050	0.050	03/17/2016	ND	1.89	94.4	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/17/2016	ND	1.66	83.1	2.00	2.82	
Total Xylenes*	<0.150	0.150	03/17/2016	ND	5.13	85.5	6.00	2.14	
Total BTEX	<0.300	0.300	03/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	03/17/2016	ND	432	108	400	3.77	

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	03/15/2016	ND	219	109	200	10.7	
DRO >C10-C28	<10.0	10.0	03/15/2016	ND	239	119	200	13.3	

Surrogate: 1-Chlorooctane 93.9 % 35-147

Surrogate: 1-Chlorooctadecane 91.1 % 28-171

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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:	03/11/2016	Sampling Date:	03/07/2016
Reported:	03/17/2016	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

Sample ID: SP 2 @ 3' (H600541-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2016	ND	1.97	98.6	2.00	1.09	
Toluene*	<0.050	0.050	03/17/2016	ND	1.89	94.4	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/17/2016	ND	1.66	83.1	2.00	2.82	
Total Xylenes*	<0.150	0.150	03/17/2016	ND	5.13	85.5	6.00	2.14	
Total BTEX	<0.300	0.300	03/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	03/17/2016	ND	432	108	400	3.77	

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	03/15/2016	ND	219	109	200	10.7	
DRO >C10-C28	<10.0	10.0	03/15/2016	ND	239	119	200	13.3	

Surrogate: 1-Chlorooctane 89.9 % 35-147

Surrogate: 1-Chlorooctadecane 80.0 % 28-171

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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:	03/11/2016	Sampling Date:	03/08/2016
Reported:	03/17/2016	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

Sample ID: SP 2 @ 4' (H600541-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2016	ND	1.97	98.6	2.00	1.09	
Toluene*	0.051	0.050	03/17/2016	ND	1.89	94.4	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/17/2016	ND	1.66	83.1	2.00	2.82	
Total Xylenes*	<0.150	0.150	03/17/2016	ND	5.13	85.5	6.00	2.14	
Total BTEX	<0.300	0.300	03/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	03/17/2016	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	12.5	10.0	03/15/2016	ND	219	109	200	10.7	
DRO >C10-C28	374	10.0	03/15/2016	ND	239	119	200	13.3	

Surrogate: 1-Chlorooctane 90.6 % 35-147
Surrogate: 1-Chlorooctadecane 101 % 28-171

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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:	03/11/2016	Sampling Date:	03/07/2016
Reported:	03/17/2016	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

Sample ID: SP 3 @ 1' (H600541-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2016	ND	1.97	98.6	2.00	1.09	
Toluene*	<0.050	0.050	03/17/2016	ND	1.89	94.4	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/17/2016	ND	1.66	83.1	2.00	2.82	
Total Xylenes*	<0.150	0.150	03/17/2016	ND	5.13	85.5	6.00	2.14	
Total BTEX	<0.300	0.300	03/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.6-140

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	03/17/2016	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	03/15/2016	ND	219	109	200	10.7	
DRO >C10-C28	148	10.0	03/15/2016	ND	239	119	200	13.3	

Surrogate: 1-Chlorooctane 92.4 % 35-147

Surrogate: 1-Chlorooctadecane 85.1 % 28-171

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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:	03/11/2016	Sampling Date:	03/07/2016
Reported:	03/17/2016	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	SOUTH 128		

Sample ID: SP 3 @ 2' (H600541-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2016	ND	1.97	98.6	2.00	1.09	
Toluene*	<0.050	0.050	03/17/2016	ND	1.89	94.4	2.00	2.12	
Ethylbenzene*	<0.050	0.050	03/17/2016	ND	1.66	83.1	2.00	2.82	
Total Xylenes*	<0.150	0.150	03/17/2016	ND	5.13	85.5	6.00	2.14	
Total BTEX	<0.300	0.300	03/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.6-140

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	03/17/2016	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	03/15/2016	ND	219	109	200	10.7	
DRO >C10-C28	151	10.0	03/15/2016	ND	239	119	200	13.3	

Surrogate: 1-Chlorooctane 96.8 % 35-147

Surrogate: 1-Chlorooctadecane 91.5 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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





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

Company Name: BBC International, Inc.
 Project Manager: Cliff Brunson
 Address: P.O. Box 805
 City: Hobbs
 Phone #: 575-397-6388
 Project #: [blank]
 Project Name: CYPRESS 31 Fed 1 CTB (2.28.16)
 Project Location: [blank]
 Sampler Name: Page Hernandez
 FOR LAB USE ONLY

P.O. #: [blank]
 Company: [blank]
 Attn: CECEL SUMMERS
 Address: [blank]
 City: [blank]
 State: [blank]
 Zip: [blank]

State: NM zip: 88241
 Fax #: 575-397-0397
 Project Owner: OKY
 City: [blank]
 State: [blank]
 Zip: [blank]

Phone #: [blank]
 Fax #: [blank]

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 :					
H1000541	SP1 @ 1' V	G	1								3-7-16	1011	CHLORIDE	
	@ 2' V	G	1								3-7-16	1045	TPH	
	@ 3' V	G	1								3-7-16	1150	BTEX	
	@ 4' V	G	1								3-8-16	940		
	SP2 @ 1' V	G	1								3-2-16	120		
	@ 2' V	G	1								3-2-16	143		
	@ 3' V	G	1								3-2-16	211		
	@ 4' V	G	1								3-2-16	1008		
	SP3 @ 1' V	G	1								3-2-16	308		
	SP3 @ 2' V	G	1								3-2-16	530		

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Relinquished By: Page Hernandez
 Date: 3-10-16
 Time: 3:30pm
 Received By: [Signature]
 Date: 3/11/16
 Time: 1:15

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: [blank]

Sample Condition
 Cool - Intact
 Yes
 No
 CHECKED BY: [Signature]
 (Initials)

Phone Result: Yes No Add'l Phone #: [blank]
 Fax Result: Yes No Add'l Fax #: [blank]
 REMARKS: [blank]

* Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476
 -1.82 #54



May 26, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 34 FEDERAL #1 CTB

Enclosed are the results of analyses for samples received by the laboratory on 05/24/16 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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:	05/24/2016	Sampling Date:	05/19/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	CYPRESS 34 FEDERAL #1 CTB	Sampling Condition:	Cool & Intact
Project Number:	LEAK 2/28/16	Sample Received By:	Amanda Ponce
Project Location:	SOUTH 128		

Sample ID: SP 2 @ 4' (H601134-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1720	16.0	05/25/2016	ND	432	108	400	0.00	

Sample ID: SP 2 @ 5' (H601134-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/25/2016	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: *Progress 34 #1 CTB - Leak 2/28/16*

Project Location:

Sampler Name: *Pie Brunson*

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

A601134
2
5/20/16 5:30

(G)RAB OR (C)OMP.	<input checked="" type="checkbox"/>
# CONTAINERS	<input checked="" type="checkbox"/>
GROUNDWATER	
WASTEWATER	
SOIL	<input checked="" type="checkbox"/>
OIL	
SLUDGE	
OTHER :	
ACID/BASE:	<input checked="" type="checkbox"/>
ICE / COOL	<input checked="" type="checkbox"/>
OTHER :	

DATE	TIME
<i>5/9/16</i>	<i>2:15</i>
<i>5/20/16</i>	<i>3:30</i>

1/CL

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: *5/21/16*

Received By:

Checked By: *[Signature]*

Relinquished By:

Date: *5/20/16*

Received By: *[Signature]*

Delivered By: (Circle One) *Turned in = 1.01*

Sampler - UPS - Bus - Other: *11C #54*

Sample Condition
Cool Intact
Yes No
Yes No

CHECKED BY: *[Signature]*

REMARKS:
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

107-1

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Friday, May 13, 2016 7:59 AM
To: Cliff Brunson
Cc: Patterson, Heather, EMNRD; Casey Summers; Dusty Wilson; Jennifer_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis; Tucker, Shelly
Subject: RE: OXY - Cypress 34 Federal #1 CTB - Remediation Plan

RE: OXY USA * Cypress 34 Fed 1 CTB * 30-015-35053 * 2RP-3497 * DOR: 1/5/16 & 2RP-3608 * DOR: 2/28/16

Cliff,

Your proposal for partial remediation of the above referenced releases is approved. Please advise once remedial activities have been scheduled. As stated in the proposal, delineation of the site will be required for consideration of deferral for portions of the site. 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 Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Tuesday, May 03, 2016 4:27 PM
To: Bratcher, Mike, EMNRD
Cc: Patterson, Heather, EMNRD; Casey Summers; Dusty Wilson; Jennifer_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY - Cypress 34 Federal #1 CTB - Remediation Plan

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the two Oxy Cypress 34 Federal #1 CTB releases. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated. Also, Shelly Tucker with the BLM has approved this as proposed as well.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
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