

# Closure Report

## Site Description

Site Name:	Cypress 28 Federal #3H
Company:	Oxy Permian Ltd.
Legal Description:	U/L L, Section 28, T23S, R29E
County:	Eddy County, NM
GPS Coordinates:	N 32.28206° W 103.99796°

## Release Data

Date of Release:	04/11/2013
Type of Release:	Oil
Source of Release:	Power failure on a transfer pump caused tank to overflow
Volume of Release:	140 bbls
Volume Recovered:	130 bbls

## Remediation Specifications

Remediation Parameters:	Excavate the area around SP1 to a depth of 3', the area around SP2 and SP3 to a depth of 2', and the area around SP4 to a depth of 1'. Obtain confirmation bottom and sidewall samples as well as 2 samples from the overspray area. Then, back fill the areas with clean soil. Berm the pad.	
Remediation Activities:	03/04/2014 to 10/03/2014	
Plan Sent to OCD:	01/02/2014	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	01/09/2014	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	01/28/2014	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	01/30/2014	Email from J. Van Curen to Cliff Brunson

## Supporting Documentation

Initial C-141	Signed 04/29/2013
Final C-141	Signed 10/10/14
Site Diagram	April 2013
Groundwater Plot	50'
TOPO Maps	April 2013
Lab Summary	4/19/13, 7/24/13, 8/26/13, 3/06/14, 3/11/14, and 5/15/14
Lab Analysis	4/19/13, 7/24/13, 8/26/13, 3/06/14, 3/11/14, and 5/15/14
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.

10/20/2014

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 28 Federal #3H	Facility Type	Gathering

Surface Owner	BLM	Mineral Owner		API No.	30-015-38287
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### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	28	23S	29E	435	North	60	West	Eddy

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

### NATURE OF RELEASE

Type of Release	Oil	Volume of Release	140 bbls	Volume Recovered	130 bbls
Source of Release	Power failure on a transfer pump caused tank to overflow	Date and Hour of Occurrence	04/11/2013	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, James Amos -BLM		
By Whom?	Chancey Summers	Date and Hour	04/12/2013 @ 8:18 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.\*

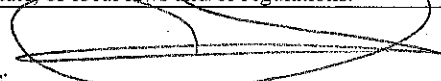
Describe Cause of Problem and Remedial Action Taken.\*

Power failure on a transfer pump caused a tank to overflow and leak 140 bbls of oil on the ground. 130 bbls of oil were recovered via vacuum truck and power was restored to the pump.

Describe Area Affected and Cleanup Action Taken.\*

Power failure on a transfer pump caused a tank to overflow and leak 140 bbls of oil on the ground. 130 bbls of oil were recovered via vacuum truck and power was restored to the pump. Remediation will be performed in accordance with a plan approved by NMOCD and BLM.

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

Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Chancey Summers		Approved by District Supervisor:	
Title: HES Specialist		Approval Date:	Expiration Date:
E-mail Address: Chancey.Summers@oxy.com		Conditions of Approval:	
Date: 4-29-12	Phone: (575) 397-8216	Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

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  
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State of New Mexico  
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Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
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with Rule 116 on back  
side of form

### Release Notification and Corrective Action

<b>OPERATOR</b>		<input type="checkbox"/> Initial Report	<input checked="" type="checkbox"/> 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 28 Federal #3H	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	
		API No. 30-015-38287	

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	28	23S	29E	435	North	60	West	Eddy

Latitude N 32.28206° Longitude W 103.99796°

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Type of Release	Oil	Volume of Release	140 bbls	Volume Recovered	130 bbls
Source of Release	Power failure on a transfer pump caused tank to overflow	Date and Hour of Occurrence	04/11/2013	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, James Amose-BLM		
By Whom?	Chancey Summers	Date and Hour	04/12/2013 @ 8:18 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.\*

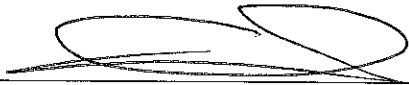
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Describe Area Affected and Cleanup Action Taken.\*

Power failure on a transfer pump caused a tank to overflow and leak 140 bbls of oil on the ground. 130 bbls of oil were recovered via vacuum truck and power was restored to the pump. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 01/09/2014 and approved by Jennifer Van Curen of the BLM via email on 01/30/2014.

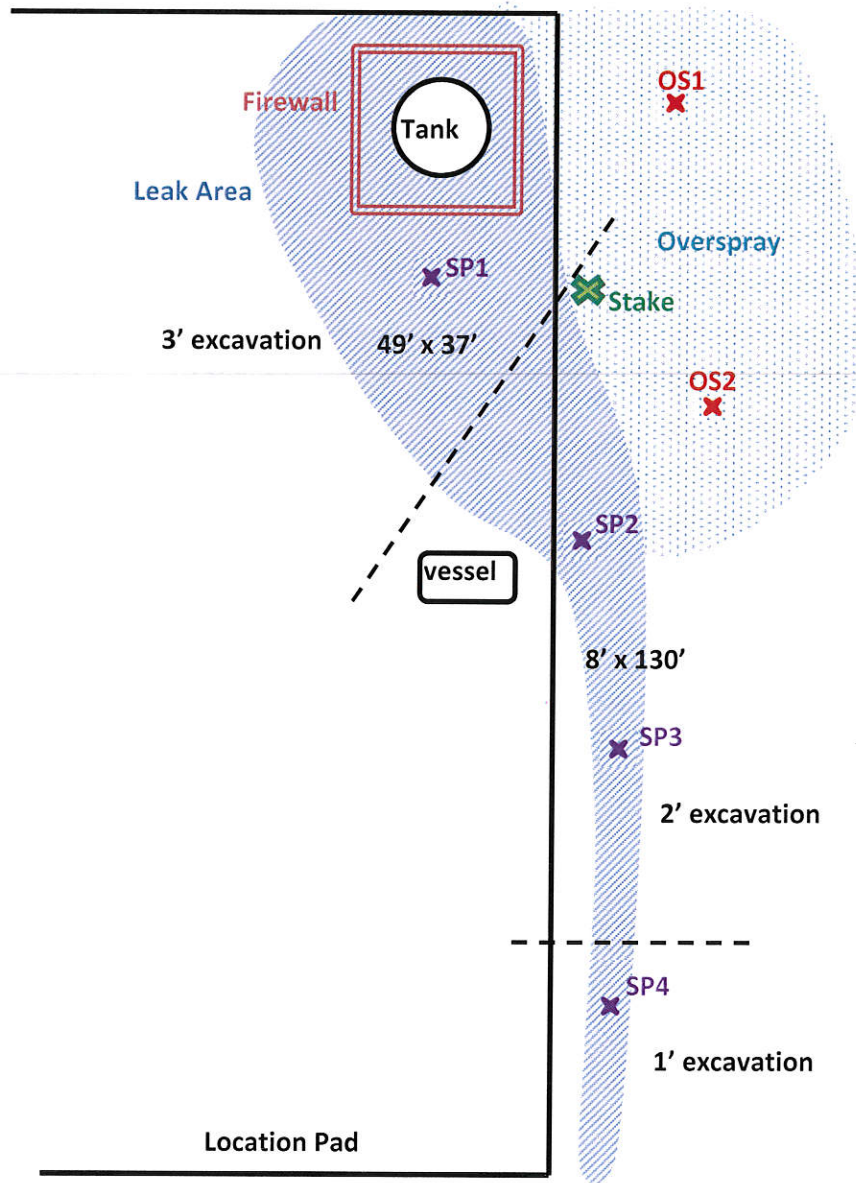
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Signature: 		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Chancey Summers		Approved by District Supervisor:	
Title: HES Advisor		Approval Date:	Expiration Date:
E-mail Address: Chancey.Summers@oxy.com		Conditions of Approval:	
Date: 10-10-14 Phone: (575) 397-8216		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary



Oxy  
Cypress 28 Federal #3H



U/L D, Section 28, T23S, R29E  
435' FNL and 60' FWL  
Eddy County, NM  
N 32.28206° W 103.99796°  
API# 30-015-38287

BBC International, Inc.	
Oxy	
Cypress 28 Federal #3H	
Date: 04/25/2013	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2013





# Groundwater Plot

Oxy Cypress 28 Federal #3H

County  
Eddy

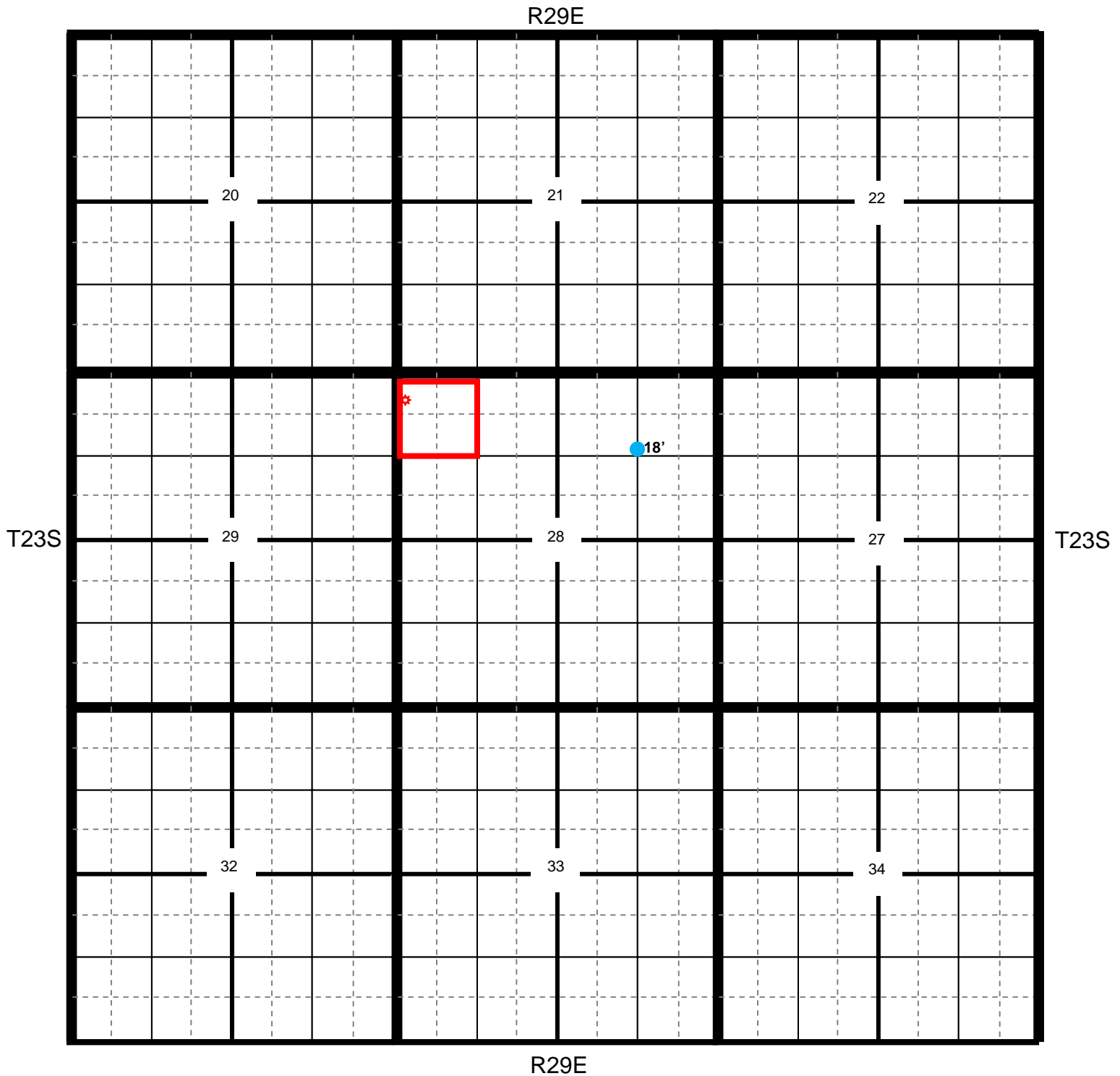
Unit Letter  
D

Section  
28

Township  
23S

Range  
29E

Trend Map 50'



⚙ Location

● OCD

● USGS

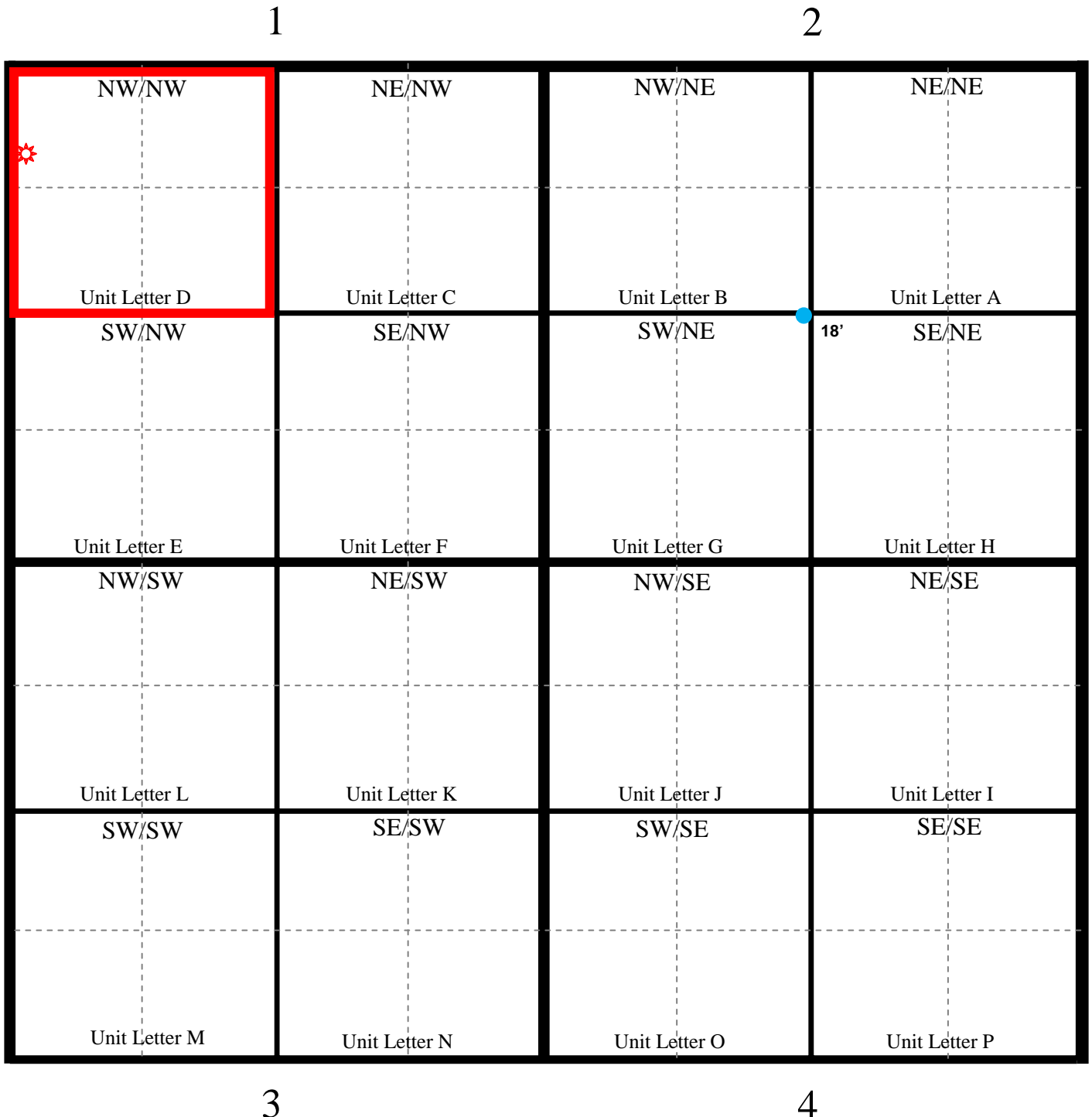
● SEO

● All Databases

## Oxy Cypress 28 Federal #3H

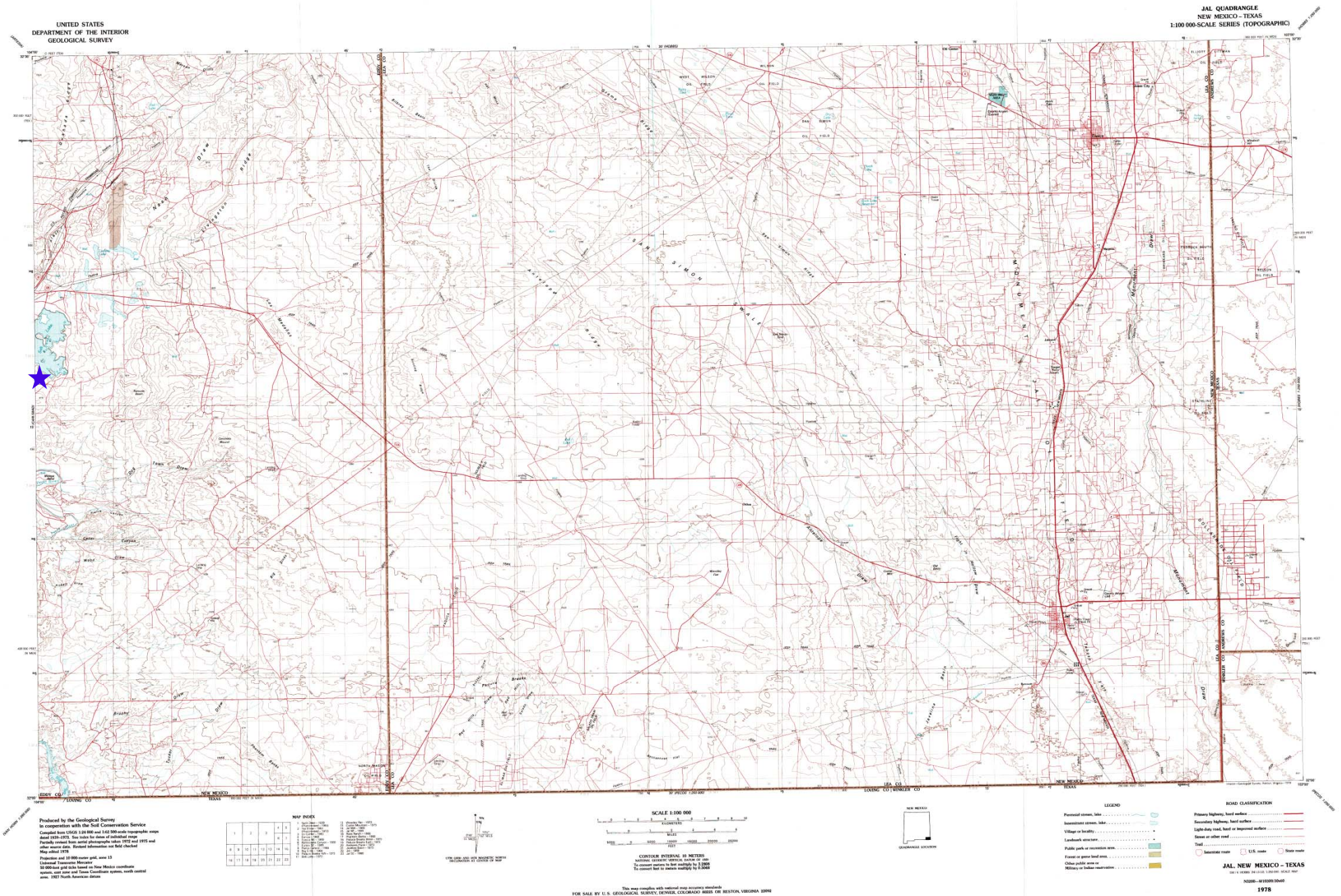
<b>County</b> Eddy	<b>Unit Letter</b> D	<b>Section</b> 28	<b>Township</b> T23S	<b>Range</b> R29E
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Trend Map 50'



Oxy

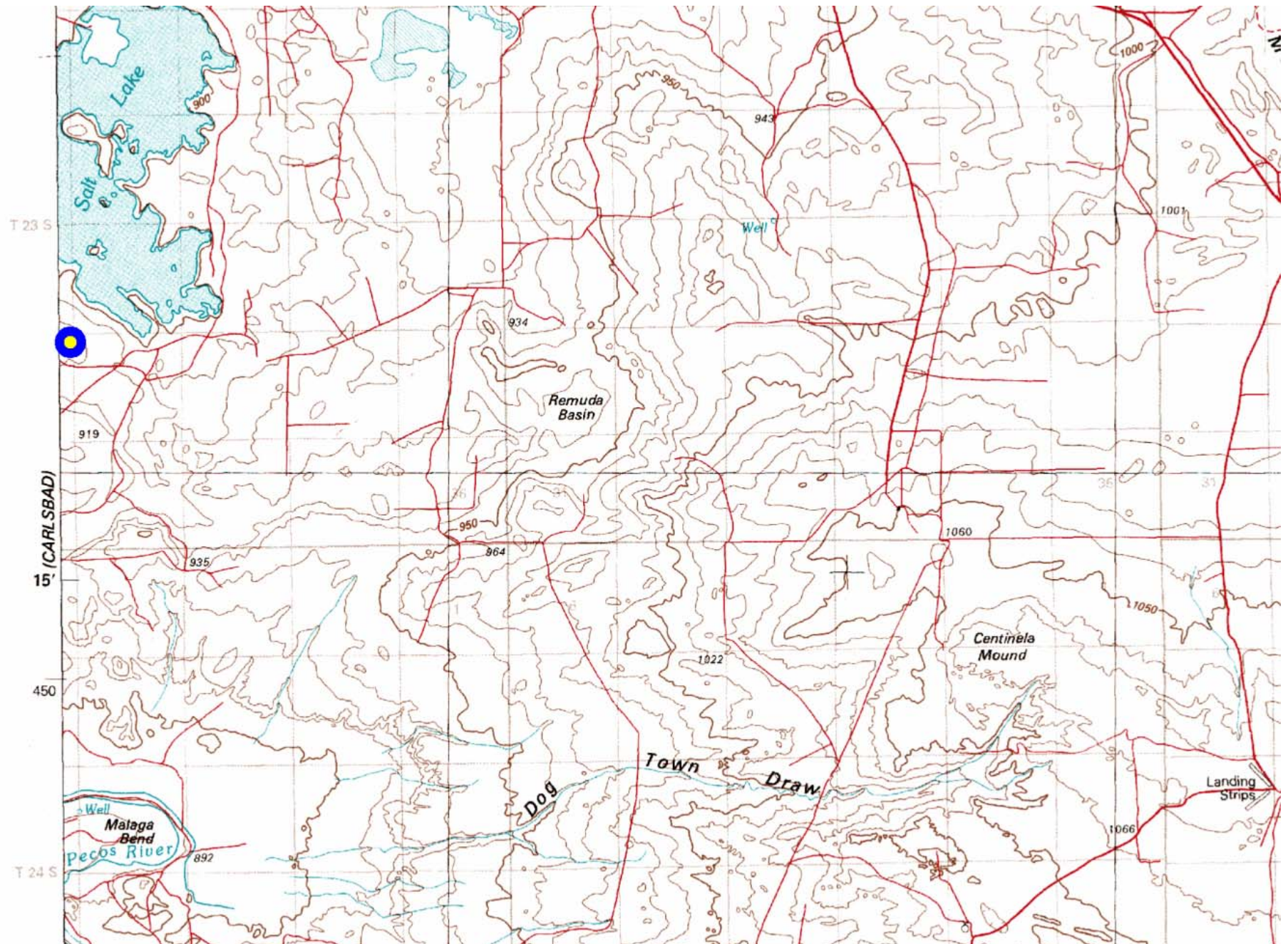
# Cypress 28 Federal #3H





Oxy

## Cypress 28 Federal #3H



**Laboratory Analytical Results Summary  
CYPRESS 28 FEDERAL #3H**

		Sample	SP1 @ 6"	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'
Analyte	Method	Date	4/19/13	7/24/13	7/24/13	7/24/13	8/26/13	8/26/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<b>0.23</b>	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>4.46</b>	<0.050	<0.050	<b>0.076</b>	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>7.79</b>	<b>0.054</b>	<0.050	<b>0.076</b>	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>42.2</b>	<b>0.34</b>	<0.150	<b>0.52</b>	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>54.7</b>	<b>0.393</b>	<0.300	<b>0.672</b>	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>32</b>	<b>128</b>	<b>32</b>	<b>224</b>	n/a	n/a
<b>GRO</b>	TPH 8015M		<b>2770</b>	<b>17.1</b>	<10.0	<50.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>22800</b>	<b>616</b>	<10.0	<b>8300</b>	<10.0	<10.0

		Sample	SP2 @ 6"	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	4/19/13	7/24/13	7/24/13	7/24/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<b>0.954</b>	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>5.83</b>	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>8.33</b>	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>38.2</b>	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>53.4</b>	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>48</b>	<b>48</b>	<b>48</b>	<b>32</b>
<b>GRO</b>	TPH 8015M		<b>2770</b>	<10.0	<b>20.7</b>	<10.0
<b>DRO</b>	TPH 8015M		<b>22500</b>	<b>149</b>	<b>1230</b>	<b>13</b>

		Sample	SP3 @ 6"	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	4/19/13	7/24/13	7/24/13	7/24/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<b>0.693</b>	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>15.4</b>	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>24.7</b>	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>145</b>	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>186</b>	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<16.0	<b>48</b>	<b>48</b>	<b>32</b>
<b>GRO</b>	TPH 8015M		<b>7210</b>	<10.0	<b>22.6</b>	<10.0
<b>DRO</b>	TPH 8015M		<b>39200</b>	<b>869</b>	<b>1250</b>	<10.0

		Sample	SP4 @ 6"	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	4/19/13	7/24/13	7/24/13	7/24/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<b>0.205</b>	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>5.97</b>	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>8.23</b>	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>47.7</b>	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>62.1</b>	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<16.0	<b>48</b>	<b>64</b>	<b>64</b>
<b>GRO</b>	TPH 8015M		<b>2500</b>	<10.0	<b>19.9</b>	<10.0

Laboratory Analytical Results Summary  
CYPRESS 28 FEDERAL #3H

DRO	TPH 8015M		33900	968	1120	18
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**Laboratory Analytical Results Summary**  
**Cypress 28 Federal #3H**

		Sample	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8
Analyte	Method	Date	3/6/14	3/6/14	3/6/14	3/6/14	3/6/14	3/6/14	3/6/14	3/6/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.200	<0.050	<0.100	<0.200	<0.100	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.200	<0.050	<0.100	<0.200	<0.100	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.200	<0.050	<0.100	<0.200	<0.100	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.600	<0.150	<0.300	<0.600	<0.300	0.169	0.293	0.188
Total BTEX	BTEX 8021B		<1.20	<0.300	<0.600	<1.20	<0.600	<0.300	<0.300	<0.300
GRO	TPH 8015M		24	23.5	13.6	29.1	24.6	26.2	34.4	27.8
DRO	TPH 8015M		1250	1410	615	1270	1620	1460	1620	1600

[illegible]



**Laboratory Analytical Results Summary**  
**Cypress 28 Federal #3H**

		Sample	Overspray 1 @ Surface	Overspray 1 @ 1'
Analyte	Method	Date	5/15/14	5/15/14
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<b>0.106</b>	<0.050
<b>Toluene</b>	BTEX 8021B		<b>2.86</b>	<b>0.052</b>
<b>Ethylbenzene</b>	BTEX 8021B		<b>2.59</b>	<b>0.11</b>
<b>Total Xylenes</b>	BTEX 8021B		<b>14.4</b>	<b>0.692</b>
<b>Total BTEX</b>	BTEX 8021B		<b>20</b>	<b>0.854</b>
<b>Chloride</b>	SM4500Cl-B		<b>64</b>	<b>96</b>
<b>GRO</b>	TPH 8015M		<b>179</b>	<10.0
<b>DRO</b>	TPH 8015M		<b>9960</b>	<b>22.3</b>

		Sample	Overspray 2 @ Surface	Overspray 2 @ 1'
Analyte	Method	Date	5/15/14	5/15/14
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<b>0.119</b>	<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.988</b>	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>0.767</b>	<b>0.092</b>
<b>Total Xylenes</b>	BTEX 8021B		<b>4.3</b>	<b>0.534</b>
<b>Total BTEX</b>	BTEX 8021B		<b>6.18</b>	<b>0.626</b>
<b>Chloride</b>	SM4500Cl-B		<b>32</b>	<b>80</b>
<b>GRO</b>	TPH 8015M		<b>96.6</b>	<10.0
<b>DRO</b>	TPH 8015M		<b>10000</b>	<b>22.5</b>

April 25, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 28 FED #3H

Enclosed are the results of analyses for samples received by the laboratory on 04/23/13 9:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/23/2013  
Reported: 04/25/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/19/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 6" (H300944-01)**

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.230</b>	0.200	04/24/2013	ND	1.75	87.5	2.00	0.211	
<b>Toluene*</b>	<b>4.46</b>	0.200	04/24/2013	ND	1.61	80.6	2.00	0.0547	
<b>Ethylbenzene*</b>	<b>7.79</b>	0.200	04/24/2013	ND	1.73	86.3	2.00	1.63	
<b>Total Xylenes*</b>	<b>42.2</b>	0.600	04/24/2013	ND	5.06	84.4	6.00	1.34	
<b>Total BTX</b>	<b>54.7</b>	1.20	04/24/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 302 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	04/24/2013	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>2770</b>	50.0	04/23/2013	ND	205	103	200	4.08	
<b>DRO &gt;C10-C28</b>	<b>22800</b>	50.0	04/23/2013	ND	190	94.9	200	8.60	

Surrogate: 1-Chlorooctane 285 % 65.2-140

Surrogate: 1-Chlorooctadecane 686 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/23/2013  
Reported: 04/25/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/19/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 6" (H300944-02)**

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.954</b>	0.200	04/24/2013	ND	1.75	87.5	2.00	0.211	
<b>Toluene*</b>	<b>5.83</b>	0.200	04/24/2013	ND	1.61	80.6	2.00	0.0547	
<b>Ethylbenzene*</b>	<b>8.33</b>	0.200	04/24/2013	ND	1.73	86.3	2.00	1.63	
<b>Total Xylenes*</b>	<b>38.2</b>	0.600	04/24/2013	ND	5.06	84.4	6.00	1.34	
<b>Total BTX</b>	<b>53.4</b>	1.20	04/24/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 330 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	04/24/2013	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>2770</b>	50.0	04/23/2013	ND	205	103	200	4.08	
<b>DRO &gt;C10-C28</b>	<b>22500</b>	50.0	04/23/2013	ND	190	94.9	200	8.60	

Surrogate: 1-Chlorooctane 258 % 65.2-140

Surrogate: 1-Chlorooctadecane 703 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/23/2013  
Reported: 04/25/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/19/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 6" (H300944-03)**

BTEx 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.693</b>	0.200	04/24/2013	ND	1.75	87.5	2.00	0.211	
<b>Toluene*</b>	<b>15.4</b>	0.200	04/24/2013	ND	1.61	80.6	2.00	0.0547	
<b>Ethylbenzene*</b>	<b>24.7</b>	0.200	04/24/2013	ND	1.73	86.3	2.00	1.63	
<b>Total Xylenes*</b>	<b>145</b>	0.600	04/24/2013	ND	5.06	84.4	6.00	1.34	
<b>Total BTEx</b>	<b>186</b>	1.20	04/24/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 419 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/24/2013	ND	448	112	400	3.64	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>7210</b>	50.0	04/23/2013	ND	205	103	200	4.08	
<b>DRO &gt;C10-C28</b>	<b>39200</b>	50.0	04/23/2013	ND	190	94.9	200	8.60	

Surrogate: 1-Chlorooctane 394 % 65.2-140

Surrogate: 1-Chlorooctadecane 1270 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/23/2013  
Reported: 04/25/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/19/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 6" (H300944-04)**

BTEx 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.205</b>	0.200	04/24/2013	ND	1.75	87.5	2.00	0.211	
<b>Toluene*</b>	<b>5.97</b>	0.200	04/24/2013	ND	1.61	80.6	2.00	0.0547	
<b>Ethylbenzene*</b>	<b>8.23</b>	0.200	04/24/2013	ND	1.73	86.3	2.00	1.63	
<b>Total Xylenes*</b>	<b>47.7</b>	0.600	04/24/2013	ND	5.06	84.4	6.00	1.34	
<b>Total BTEX</b>	<b>62.1</b>	1.20	04/24/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 320 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/24/2013	ND	448	112	400	3.64	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>2500</b>	50.0	04/23/2013	ND	205	103	200	4.08	
<b>DRO &gt;C10-C28</b>	<b>33900</b>	50.0	04/23/2013	ND	190	94.9	200	8.60	

Surrogate: 1-Chlorooctane 272 % 65.2-140

Surrogate: 1-Chlorooctadecane 1160 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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: SAME																																			
Project #:		City:																																					
Project Name: Cypress 28 Feb # 34		State:		Zip:																																			
Project Location:		Phone #:																																					
Sample Name: PAPER		Fax #:																																					
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING																																	
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											
H300944		SPIC 6"		G		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		4-19-13		950		✓									
2 SP 20 6"		G		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		4-19-13		1030		✓									
3 SP 30 6"		G		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		4-19-13		1135		✓									
4 SP 40 6"		G		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		4-19-13		140		✓									

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

August 07, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 28 FED #3H

Enclosed are the results of analyses for samples received by the laboratory on 07/30/13 16:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1' (H301800-01)**

BTEX 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78	
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21	
Ethylbenzene*	0.054	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70	
Total Xylenes*	0.340	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13	
Total BTEX	0.393	0.300	08/06/2013	ND					

Surrogate: Dibromofluoromethane 99.3 % 61.3-142  
Surrogate: Toluene-d8 97.5 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 196 % 65.7-141

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/01/2013	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	17.1	10.0	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	616	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 75.3 % 65.2-140  
Surrogate: 1-Chlorooctadecane 107 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 2' (H301800-02)**

BTX 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78	
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21	
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70	
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13	
Total BTX	<0.300	0.300	08/06/2013	ND					

Surrogate: Dibromofluoromethane 99.6 % 61.3-142

Surrogate: Toluene-d8 98.2 % 71.3-129

Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2013	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	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	<10.0	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 76.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.3 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 3' (H301800-03)**

BTX 8260B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2013	ND	1.91	95.4	2.00	5.78	
Toluene*	0.076	0.050	08/07/2013	ND	1.77	88.4	2.00	6.21	
Ethylbenzene*	0.076	0.050	08/07/2013	ND	1.75	87.3	2.00	5.70	
Total Xylenes*	0.520	0.150	08/07/2013	ND	5.21	86.9	6.00	5.13	
Total BTX	0.672	0.300	08/07/2013	ND					

Surrogate: Dibromofluoromethane 96.0 % 61.3-142  
Surrogate: Toluene-d8 98.6 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 180 % 65.7-141

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/01/2013	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	<50.0	50.0	08/02/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	8300	50.0	08/02/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 65.3 % 65.2-140  
Surrogate: 1-Chlorooctadecane 517 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1' (H301800-04)**

BTEX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78		
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21		
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70		
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13		
Total BTEX	<0.300	0.300	08/06/2013	ND						

Surrogate: Dibromofluoromethane 97.6 % 61.3-142  
Surrogate: Toluene-d8 98.0 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 132 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2013	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	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	149	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 76.2 % 65.2-140  
Surrogate: 1-Chlorooctadecane 101 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 2' (H301800-05)**

BTX 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78	
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21	
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70	
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13	
Total BTX	<0.300	0.300	08/06/2013	ND					

Surrogate: Dibromofluoromethane 97.2 % 61.3-142  
Surrogate: Toluene-d8 96.6 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 197 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2013	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	20.7	10.0	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	1230	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 87.9 % 65.2-140  
Surrogate: 1-Chlorooctadecane 122 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 3' (H301800-06)**

BTX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78		
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21		
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70		
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13		
Total BTX	<0.300	0.300	08/06/2013	ND						

Surrogate: Dibromofluoromethane 95.7 % 61.3-142  
Surrogate: Toluene-d8 97.1 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2013	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	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	13.0	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 90.2 % 65.2-140  
Surrogate: 1-Chlorooctadecane 112 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1' (H301800-07)**

BTEX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78		
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21		
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70		
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13		
Total BTEX	<0.300	0.300	08/06/2013	ND						

Surrogate: Dibromofluoromethane 96.2 % 61.3-142  
Surrogate: Toluene-d8 98.9 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 119 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2013	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	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	869	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 88.0 % 65.2-140  
Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 2' (H301800-08)**

BTX 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78	
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21	
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70	
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13	
Total BTX	<0.300	0.300	08/06/2013	ND					

Surrogate: Dibromofluoromethane 99.3 % 61.3-142  
Surrogate: Toluene-d8 95.5 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 163 % 65.7-141

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2013	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	22.6	10.0	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	1250	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 98.9 % 65.2-140  
Surrogate: 1-Chlorooctadecane 139 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 3' (H301800-09)**

BTX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78		
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21		
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70		
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13		
Total BTX	<0.300	0.300	08/06/2013	ND						

Surrogate: Dibromofluoromethane 96.9 % 61.3-142  
Surrogate: Toluene-d8 98.2 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2013	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	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	<10.0	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 75.1 % 65.2-140  
Surrogate: 1-Chlorooctadecane 91.4 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 1' (H301800-10)**

BTEX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78		
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21		
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70		
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13		
Total BTEX	<0.300	0.300	08/06/2013	ND						

Surrogate: Dibromofluoromethane 98.2 % 61.3-142  
Surrogate: Toluene-d8 98.9 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 127 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2013	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	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	968	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 92.3 % 65.2-140  
Surrogate: 1-Chlorooctadecane 133 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 2' (H301800-11)**

BTX 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78	
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21	
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70	
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13	
Total BTX	<0.300	0.300	08/06/2013	ND					

Surrogate: Dibromofluoromethane 96.9 % 61.3-142  
Surrogate: Toluene-d8 99.2 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 164 % 65.7-141

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/01/2013	ND	416	104	400	0.00	
TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	19.9	10.0	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	1120	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 94.5 % 65.2-140  
Surrogate: 1-Chlorooctadecane 132 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 3' (H301800-12)**

BTEX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78		
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21		
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70		
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13		
Total BTEX	<0.300	0.300	08/06/2013	ND						

Surrogate: Dibromofluoromethane 97.2 % 61.3-142  
Surrogate: Toluene-d8 97.7 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/01/2013	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	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	18.0	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 97.5 % 65.2-140  
Surrogate: 1-Chlorooctadecane 121 % 63.6-154

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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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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---

Celey D. Keene, Lab Director/Quality Manager



# CARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

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: SAME																									
Phone #: 575-397-6388		City:																									
Fax #: 575-397-0397		State:																									
Project #:		Zip:																									
Project Name: Cypress 28 Feb 24		Project Owner: OK																									
Project Location:		Phone #:																									
Sampler Name: Peter Hernandez		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.																									
H301800		SP10 1'																									
1		SP10 1'																									
2		SP10 1'																									
3		SP20 1'																									
4		SP20 1'																									
5		SP20 1'																									
6		SP20 1'																									
7		SP30 1'																									
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PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising while 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: <i>PA 8</i>		Date: <i>7/30/13</i>		Received By: <i>Medi Hernandez</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Relinquished By:		Time: <i>4:56</i>		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Delivered By: (Circle One)		Sample Condition		CHECKED BY: <i>PA 8</i>					
Sampler - UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>							
-40		No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>							

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

#54



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

282

#54



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

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September 03, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 28 FED #3H

Enclosed are the results of analyses for samples received by the laboratory on 08/27/13 9:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 08/27/2013  
Reported: 09/03/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 08/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 4' (H302060-01)**

BTEX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2013	ND	2.22	111	2.00	13.0	
Toluene*	<0.050	0.050	08/29/2013	ND	2.11	105	2.00	9.88	
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	2.05	102	2.00	10.5	
Total Xylenes*	<0.150	0.150	08/29/2013	ND	6.12	102	6.00	9.59	
Total BTEX	<0.300	0.300	08/29/2013	ND					

Surrogate: Dibromofluoromethane 103 % 61.3-142

Surrogate: Toluene-d8 99.7 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91	
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	205	102	200	5.30	

Surrogate: 1-Chlorooctane 95.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.0 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 08/27/2013  
Reported: 09/03/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 08/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 5' (H302060-02)**

BTEX 8260B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2013	ND	2.22	111	2.00	13.0		
Toluene*	<0.050	0.050	08/29/2013	ND	2.11	105	2.00	9.88		
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	2.05	102	2.00	10.5		
Total Xylenes*	<0.150	0.150	08/29/2013	ND	6.12	102	6.00	9.59		
Total BTEX	<0.300	0.300	08/29/2013	ND						

Surrogate: Dibromofluoromethane 103 % 61.3-142  
Surrogate: Toluene-d8 99.0 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91		
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	205	102	200	5.30		

Surrogate: 1-Chlorooctane 94.3 % 65.2-140  
Surrogate: 1-Chlorooctadecane 94.7 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



# CARDINAL Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

### BILL TO

### ANALYSIS REQUEST

Company Name: <b>ABC Int.</b>		P.O. #:
Project Manager: <b>Chad Bowman</b>		Company:
Address: <b>1324 E. Marland</b>		Attn:
City: <b>Hobbs</b>		Address: <b>24ME</b>
State: <b>NM</b> Zip: <b>88240</b>		City:
Phone #: <b>393 6308</b> Fax #: <b>393 6308</b>		State:
Project #: <b>28</b>		Zip:
Project Name: <b>CYPRESS 28 FEB 3H</b>		Phone #:
Project Location: <b> Hwy 28</b>		Fax #:
Sampler Name: <b>For the sample 2</b>		
FOR LAB USE ONLY		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.
H302000	SPIC 4'	# CONTAINERS
		GROUNDWATER
		WASTEWATER
		SOIL
		OIL
		SLUDGE
		OTHER:
		ACID/BASE:
		ICE / COOL
		OTHER:
		DATE
		TIME
		TPH
		BTEX
Relinquished By: <b>Heidi Mendon</b>		Relinquished By: <b>Heidi Mendon</b>
Date: <b>3-27-13</b>		Received By: <b>Heidi Mendon</b>
Time: <b>10:30</b>		Received By: <b>Heidi Mendon</b>
Delivered By: (Circle One)		Sample Condition
Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Checked By: <b>Heidi Mendon</b>
Sampler - UPS - Bus - Other: <b>5.7c</b>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No
		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No
		Additional Phone #:
		Additional Fax #:
		REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



March 10, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 28 FED #3H

Enclosed are the results of analyses for samples received by the laboratory on 03/06/14 17:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/06/2014	Sampling Date:	03/06/2014
Reported:	03/10/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SAMPLE 1 (H400706-01)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	03/08/2014	ND	2.14	107	2.00	0.624	
Toluene*	<0.200	0.200	03/08/2014	ND	2.14	107	2.00	3.61	
Ethylbenzene*	<0.200	0.200	03/08/2014	ND	2.05	103	2.00	3.71	
Total Xylenes*	<0.600	0.600	03/08/2014	ND	6.26	104	6.00	3.84	
Total BTX	<1.20	1.20	03/08/2014	ND					

Surrogate: Dibromofluoromethane 96.3 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 118 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	24.0	10.0	03/08/2014	ND	206	103	200	8.37	
DRO >C10-C28	1250	10.0	03/08/2014	ND	209	105	200	4.77	

Surrogate: 1-Chlorooctane 86.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 03/06/2014  
Reported: 03/10/2014  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/06/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SAMPLE 2 (H400706-02)**

BTEx 8260B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2014	ND	2.14	107	2.00	0.624	
Toluene*	<0.050	0.050	03/08/2014	ND	2.14	107	2.00	3.61	
Ethylbenzene*	<0.050	0.050	03/08/2014	ND	2.05	103	2.00	3.71	
Total Xylenes*	<0.150	0.150	03/08/2014	ND	6.26	104	6.00	3.84	
Total BTEX	<0.300	0.300	03/08/2014	ND					

Surrogate: Dibromofluoromethane 100 % 61.3-142  
Surrogate: Toluene-d8 102 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 150 % 65.7-141

TPH 8015M		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	23.5	10.0	03/08/2014	ND	206	103	200	8.37	
DRO >C10-C28	1410	10.0	03/08/2014	ND	209	105	200	4.77	

Surrogate: 1-Chlorooctane 83.3 % 65.2-140  
Surrogate: 1-Chlorooctadecane 103 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/06/2014	Sampling Date:	03/06/2014
Reported:	03/10/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SAMPLE 3 (H400706-03)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	03/08/2014	ND	2.14	107	2.00	0.624	
Toluene*	<0.100	0.100	03/08/2014	ND	2.14	107	2.00	3.61	
Ethylbenzene*	<0.100	0.100	03/08/2014	ND	2.05	103	2.00	3.71	
Total Xylenes*	<0.300	0.300	03/08/2014	ND	6.26	104	6.00	3.84	
Total BTEX	<0.600	0.600	03/08/2014	ND					

Surrogate: Dibromofluoromethane 95.4 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 128 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	13.6	10.0	03/08/2014	ND	206	103	200	8.37	
DRO >C10-C28	615	10.0	03/08/2014	ND	209	105	200	4.77	

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 135 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 03/06/2014  
Reported: 03/10/2014  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/06/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SAMPLE 4 (H400706-04)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	03/08/2014	ND	2.14	107	2.00	0.624		
Toluene*	<0.200	0.200	03/08/2014	ND	2.14	107	2.00	3.61		
Ethylbenzene*	<0.200	0.200	03/08/2014	ND	2.05	103	2.00	3.71		
Total Xylenes*	<0.600	0.600	03/08/2014	ND	6.26	104	6.00	3.84		
Total BTEX	<1.20	1.20	03/08/2014	ND						

Surrogate: Dibromofluoromethane 99.8 % 61.3-142  
Surrogate: Toluene-d8 101 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 122 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	29.1	10.0	03/08/2014	ND	206	103	200	8.37		
DRO >C10-C28	1270	10.0	03/08/2014	ND	209	105	200	4.77		

Surrogate: 1-Chlorooctane 94.7 % 65.2-140  
Surrogate: 1-Chlorooctadecane 113 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 03/06/2014  
Reported: 03/10/2014  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/06/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SAMPLE 5 (H400706-05)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	03/08/2014	ND	2.14	107	2.00	0.624	
Toluene*	<0.100	0.100	03/08/2014	ND	2.14	107	2.00	3.61	
Ethylbenzene*	<0.100	0.100	03/08/2014	ND	2.05	103	2.00	3.71	
Total Xylenes*	<0.300	0.300	03/08/2014	ND	6.26	104	6.00	3.84	
Total BTEX	<0.600	0.600	03/08/2014	ND					

Surrogate: Dibromofluoromethane 95.0 % 61.3-142  
Surrogate: Toluene-d8 104 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 137 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	24.6	10.0	03/08/2014	ND	206	103	200	8.37	
DRO >C10-C28	1620	10.0	03/08/2014	ND	209	105	200	4.77	

Surrogate: 1-Chlorooctane 104 % 65.2-140  
Surrogate: 1-Chlorooctadecane 127 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 03/06/2014  
Reported: 03/10/2014  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/06/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SAMPLE 6 (H400706-06)**

BTEx 8260B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2014	ND	2.14	107	2.00	0.624	
Toluene*	<0.050	0.050	03/08/2014	ND	2.14	107	2.00	3.61	
Ethylbenzene*	<0.050	0.050	03/08/2014	ND	2.05	103	2.00	3.71	
<b>Total Xylenes*</b>	<b>0.169</b>	0.150	03/08/2014	ND	6.26	104	6.00	3.84	
Total BTEx	<0.300	0.300	03/08/2014	ND					

Surrogate: Dibromofluoromethane 95.9 % 61.3-142  
Surrogate: Toluene-d8 103 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 163 % 65.7-141

TPH 8015M		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>26.2</b>	10.0	03/08/2014	ND	206	103	200	8.37	
<b>DRO &gt;C10-C28</b>	<b>1460</b>	10.0	03/08/2014	ND	209	105	200	4.77	

Surrogate: 1-Chlorooctane 95.4 % 65.2-140  
Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/06/2014	Sampling Date:	03/06/2014
Reported:	03/10/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SAMPLE 7 (H400706-07)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2014	ND	1.92	95.9	2.00	1.04	
Toluene*	<0.050	0.050	03/10/2014	ND	1.91	95.7	2.00	4.25	
Ethylbenzene*	<0.050	0.050	03/10/2014	ND	1.83	91.6	2.00	4.77	
Total Xylenes*	0.293	0.150	03/10/2014	ND	5.57	92.8	6.00	5.04	
Total BTEX	<0.300	0.300	03/10/2014	ND					

Surrogate: Dibromofluoromethane 95.6 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 133 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	34.4	10.0	03/08/2014	ND	206	103	200	8.37	
DRO >C10-C28	1620	10.0	03/08/2014	ND	209	105	200	4.77	

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 127 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received: 03/06/2014  
Reported: 03/10/2014  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/06/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SAMPLE 8 (H400706-08)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2014	ND	1.92	95.9	2.00	1.04	
Toluene*	<0.050	0.050	03/10/2014	ND	1.91	95.7	2.00	4.25	
Ethylbenzene*	<0.050	0.050	03/10/2014	ND	1.83	91.6	2.00	4.77	
<b>Total Xylenes*</b>	<b>0.188</b>	0.150	03/10/2014	ND	5.57	92.8	6.00	5.04	
Total BTEX	<0.300	0.300	03/10/2014	ND					

Surrogate: Dibromofluoromethane 94.3 % 61.3-142  
Surrogate: Toluene-d8 101 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 127 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	27.8	10.0	03/08/2014	ND	206	103	200	8.37	
DRO >C10-C28	1600	10.0	03/08/2014	ND	209	105	200	4.77	

Surrogate: 1-Chlorooctane 101 % 65.2-140  
Surrogate: 1-Chlorooctadecane 126 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



# CARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		<b>BILL TO</b>		ANALYSIS REQUEST															
Project Manager: Cliff Brunson		P.O. #:																	
Address: P.O. Box 805		Company:																	
City: Hobbs		Attn:																	
State: NM Zip: 88241		Address: SAME																	
Phone #: 575-397-6388 Fax #: 575-397-0397		City:																	
Project #:		State:																	
Project Name: CYPRESS 28 FEB 3H		Zip:																	
Project Location:		Phone #:																	
Sampler Name: Roser Hernandez		Fax #:																	
FOR LAB USE ONLY		PRESERV		SAMPLING															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV				SAMPLING							
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME					
440076	Sample 1	✓	1	✓									3-6-14	1100	✓	TPH			
1	2	✓	1	✓									3-6-14	1105	✓	BTEX			
2	3	✓	1	✓									3-6-14	1110	✓				
3	4	✓	1	✓									3-6-14	1115	✓				
4	5	✓	1	✓									3-6-14	1120	✓				
5	6	✓	1	✓									3-6-14	1125	✓				
6	7	✓	1	✓									3-6-14	1130	✓				
7	8	✓	1	✓									3-6-14	1135	✓				
8																			

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Relinquished By: <i>Roser Hernandez</i>	Date: 3-6-14	Received By: <i>Rodi Hernandez</i>	Date: 3-6-14
Relinquished By:	Date:	Received By:	Date:
Time:		Time:	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No	5.90	

REMARKS: *RUSH!*

Phone Result: ☐ Yes ☐ No Add'l Phone #:   
Fax Result: ☐ Yes ☐ No Add'l Fax #:   
5.90

March 13, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 28 FED #3H

Enclosed are the results of analyses for samples received by the laboratory on 03/11/14 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Caley 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:	03/11/2014	Sampling Date:	03/11/2014
Reported:	03/13/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SAMPLE PT. 1 (H400741-01)**

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	03/12/2014	ND	2.18	109	2.00	2.84		
Toluene*	<0.050	0.050	03/12/2014	ND	2.06	103	2.00	3.07		
Ethylbenzene*	<0.050	0.050	03/12/2014	ND	2.02	101	2.00	3.47		
Total Xylenes*	<0.150	0.150	03/12/2014	ND	5.77	96.2	6.00	3.77		
Total BTEX	<0.300	0.300	03/12/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 89.4-126

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	03/12/2014	ND	212	106	200	3.49		
DRO >C10-C28	<10.0	10.0	03/12/2014	ND	203	101	200	3.23		

Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/11/2014	Sampling Date:	03/11/2014
Reported:	03/13/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SAMPLE PT. 2 (H400741-02)**

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	03/12/2014	ND	2.18	109	2.00	2.84	
Toluene*	<0.050	0.050	03/12/2014	ND	2.06	103	2.00	3.07	
Ethylbenzene*	<0.050	0.050	03/12/2014	ND	2.02	101	2.00	3.47	
Total Xylenes*	<0.150	0.150	03/12/2014	ND	5.77	96.2	6.00	3.77	
Total BTEX	<0.300	0.300	03/12/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.7 % 89.4-126

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	03/12/2014	ND	212	106	200	3.49	
DRO >C10-C28	<10.0	10.0	03/12/2014	ND	203	101	200	3.23	

Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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**Analytical Results For:**

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

Received:	03/11/2014	Sampling Date:	03/11/2014
Reported:	03/13/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SAMPLE PT. 3 (H400741-03)**

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	03/12/2014	ND	2.18	109	2.00	2.84	
Toluene*	<0.050	0.050	03/12/2014	ND	2.06	103	2.00	3.07	
Ethylbenzene*	<0.050	0.050	03/12/2014	ND	2.02	101	2.00	3.47	
Total Xylenes*	<0.150	0.150	03/12/2014	ND	5.77	96.2	6.00	3.77	
Total BTEX	<0.300	0.300	03/12/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 99.4 % 89.4-126

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	03/12/2014	ND	212	106	200	3.49	
DRO >C10-C28	<10.0	10.0	03/12/2014	ND	203	101	200	3.23	

Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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

Received:	03/11/2014	Sampling Date:	03/11/2014
Reported:	03/13/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SAMPLE PT. 4 (H400741-04)**

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	03/12/2014	ND	2.18	109	2.00	2.84	
Toluene*	<0.050	0.050	03/12/2014	ND	2.06	103	2.00	3.07	
Ethylbenzene*	<0.050	0.050	03/12/2014	ND	2.02	101	2.00	3.47	
Total Xylenes*	<0.150	0.150	03/12/2014	ND	5.77	96.2	6.00	3.77	
Total BTEX	<0.300	0.300	03/12/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 100 % 89.4-126

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	03/12/2014	ND	212	106	200	3.49	
DRO >C10-C28	<10.0	10.0	03/12/2014	ND	203	101	200	3.23	

Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/11/2014	Sampling Date:	03/11/2014
Reported:	03/13/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SAMPLE PT. 5 (H400741-05)**

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	03/12/2014	ND	2.18	109	2.00	2.84	
Toluene*	<0.050	0.050	03/12/2014	ND	2.06	103	2.00	3.07	
Ethylbenzene*	<0.050	0.050	03/12/2014	ND	2.02	101	2.00	3.47	
Total Xylenes*	<0.150	0.150	03/12/2014	ND	5.77	96.2	6.00	3.77	
Total BTEX	<0.300	0.300	03/12/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

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	03/12/2014	ND	212	106	200	3.49	
DRO >C10-C28	<10.0	10.0	03/12/2014	ND	203	101	200	3.23	

Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 119 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/11/2014	Sampling Date:	03/11/2014
Reported:	03/13/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SAMPLE PT. 6 (H400741-06)**

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	03/12/2014	ND	2.18	109	2.00	2.84	
Toluene*	<0.050	0.050	03/12/2014	ND	2.06	103	2.00	3.07	
Ethylbenzene*	<0.050	0.050	03/12/2014	ND	2.02	101	2.00	3.47	
Total Xylenes*	<0.150	0.150	03/12/2014	ND	5.77	96.2	6.00	3.77	
Total BTEX	<0.300	0.300	03/12/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 98.7 % 89.4-126

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	03/12/2014	ND	212	106	200	3.49	
DRO >C10-C28	<10.0	10.0	03/12/2014	ND	203	101	200	3.23	

Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	03/11/2014	Sampling Date:	03/11/2014
Reported:	03/13/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SAMPLE PT. 7 (H400741-07)**

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	03/12/2014	ND	2.18	109	2.00	2.84	
Toluene*	<0.050	0.050	03/12/2014	ND	2.06	103	2.00	3.07	
Ethylbenzene*	<0.050	0.050	03/12/2014	ND	2.02	101	2.00	3.47	
Total Xylenes*	<0.150	0.150	03/12/2014	ND	5.77	96.2	6.00	3.77	
Total BTEX	<0.300	0.300	03/12/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 98.6 % 89.4-126

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	03/12/2014	ND	212	106	200	3.49	
DRO >C10-C28	<10.0	10.0	03/12/2014	ND	203	101	200	3.23	

Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received:	03/11/2014	Sampling Date:	03/11/2014
Reported:	03/13/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SAMPLE PT. 8 (H400741-08)**

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	03/12/2014	ND	2.18	109	2.00	2.84	
Toluene*	<0.050	0.050	03/12/2014	ND	2.06	103	2.00	3.07	
Ethylbenzene*	<0.050	0.050	03/12/2014	ND	2.02	101	2.00	3.47	
Total Xylenes*	<0.150	0.150	03/12/2014	ND	5.77	96.2	6.00	3.77	
Total BTEX	<0.300	0.300	03/12/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 99.3 % 89.4-126

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	03/13/2014	ND	199	99.6	200	8.31	
DRO >C10-C28	<10.0	10.0	03/13/2014	ND	194	96.9	200	5.88	

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



# 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**

1 of 1

Company Name: BBC International, Inc.		P.O. #:												
Project Manager: Cliff Brunson		Company:												
Address: P.O. Box 805		City: Hobbs	State: NM	Zip: 88241										
Phone #: 575-397-6388		Fax #: 575-397-0397												
Project #:		Project Owner: DRY	City:	Address: SAME										
Project Name:		State:	Zip:											
Project Location:		Phone #:												
Sample Name: ROGER HERNANDEZ		Fax #:												
FOR LAB USE ONLY														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX		PRESERV.	SAMPLING							
		GROUNDWATER		WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:			
1	Sample point 1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
2	Sample point 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
3	Sample point 3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
4	Sample point 4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
5	Sample point 5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
6	Sample point 6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
7	Sample point 7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
8	Sample point 8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
9	Sample point 9	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
10	Sample point 10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
11	Sample point 11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
12	Sample point 12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
13	Sample point 13	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
14	Sample point 14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
15	Sample point 15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
16	Sample point 16	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
17	Sample point 17	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
18	Sample point 18	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
19	Sample point 19	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
20	Sample point 20	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
21	Sample point 21	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
22	Sample point 22	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
23	Sample point 23	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
24	Sample point 24	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
25	Sample point 25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
26	Sample point 26	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
27	Sample point 27	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
28	Sample point 28	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
29	Sample point 29	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
30	Sample point 30	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
31	Sample point 31	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
32	Sample point 32	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
33	Sample point 33	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
34	Sample point 34	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
35	Sample point 35	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
36	Sample point 36	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
37	Sample point 37	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
38	Sample point 38	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
39	Sample point 39	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
40	Sample point 40	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
41	Sample point 41	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
42	Sample point 42	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
43	Sample point 43	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
44	Sample point 44	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
45	Sample point 45	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
46	Sample point 46	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
47	Sample point 47	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
48	Sample point 48	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
49	Sample point 49	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
50	Sample point 50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
51	Sample point 51	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
52	Sample point 52	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
53	Sample point 53	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
54	Sample point 54	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
55	Sample point 55	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
56	Sample point 56	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
57	Sample point 57	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
58	Sample point 58	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
59	Sample point 59	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
60	Sample point 60	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
61	Sample point 61	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
62	Sample point 62	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
63	Sample point 63	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
64	Sample point 64	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
65	Sample point 65	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
66	Sample point 66	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
67	Sample point 67	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
68	Sample point 68	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
69	Sample point 69	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
70	Sample point 70	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
71	Sample point 71	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
72	Sample point 72	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
73	Sample point 73	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
74	Sample point 74	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
75	Sample point 75	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
76	Sample point 76	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
77	Sample point 77	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
78	Sample point 78	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
79	Sample point 79	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
80	Sample point 80	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
81	Sample point 81	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
82	Sample point 82	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
83	Sample point 83	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
84	Sample point 84	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
85	Sample point 85	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
86	Sample point 86	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
87	Sample point 87	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
88	Sample point 88	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
89	Sample point 89	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
90	Sample point 90	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
91	Sample point 91	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
92	Sample point 92	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
93	Sample point 93	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
94	Sample point 94	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
95	Sample point 95	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
96	Sample point 96	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
97	Sample point 97	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
98	Sample point 98	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
99	Sample point 99	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
100	Sample point 100	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

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Relinquished By: ROGER HERNANDEZ

Date: 3/11/14

Time: 9:45

Received By: ROGER HERNANDEZ

Date: 3/11/14

Time: 1:45

Relinquished By: ROGER HERNANDEZ

Date: 3/11/14

Time: 1:45

Relinquished By: ROGER HERNANDEZ

Date: 3/11/14

Time: 9:45

Received By: ROGER HERNANDEZ

Date: 3/11/14

Time: 1:45

Relinquished By: ROGER HERNANDEZ

Date: 3/11/14

Time: 9:45

Received By: ROGER HERNANDEZ

Date: 3/11/14

Time: 1:45

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

6.00

Sample Condition: Cool Intact Yes No

CHECKED BY: (Initials)

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

#54





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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

1081

BILL TO										ANALYSIS REQUEST									
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 #:										Address: SAME									
Project Name: CYPRESS ZB 34										City:									
Project Location:										State: Zip:									
Sampler Name: ROGER HERNANDEZ										Phone #:									
Fax #:										Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No									
										Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No									
										Add'l Phone #:									
										Add'l Fax #:									
										REMARKS:									
FOR LAB USE ONLY																			
Lab I.D. H400741																			
Sample I.D.																			
1 Sample point 1										DATE TIME 3-11-14 110									
2 Sample point 2										DATE TIME 3-11-14 115									
3 Sample point 3										DATE TIME 3-11-14 120									
4 Sample point 4										DATE TIME 3-11-14 125									
5 Sample point 5										DATE TIME 3-11-14 130									
6 Sample point 6										DATE TIME 3-11-14 135									
7 Sample point 7										DATE TIME 3-11-14 140									
8 Sample point 8										DATE TIME 3-11-14 145									
										BTX									
										TH									

Relinquished By: ROGER HERNANDEZ	Date: 3-11-14	Received By: Roger Henderson	Date: 3-11-14
Relinquished By:	Time: 4:45	Received By:	Time:
Delivered By: (Circle One)		Sample Condition	
Sampler - UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		Yes <input type="checkbox"/> No <input type="checkbox"/>	
		Checked By: (Initials) RH	

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

#54



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

---

May 27, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 28 FED #3H

Enclosed are the results of analyses for samples received by the laboratory on 05/16/14 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	05/16/2014	Sampling Date:	05/15/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

**Sample ID: OVERSPRAY 1 @ SURFACE (H401510-01)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.106</b>	0.050	05/22/2014	ND	2.27	114	2.00	2.21	
<b>Toluene*</b>	<b>2.86</b>	0.050	05/22/2014	ND	2.23	112	2.00	1.54	
<b>Ethylbenzene*</b>	<b>2.59</b>	0.050	05/22/2014	ND	2.13	107	2.00	1.16	
<b>Total Xylenes*</b>	<b>14.4</b>	0.150	05/22/2014	ND	6.73	112	6.00	0.527	
<b>Total BTX</b>	<b>20.0</b>	0.300	05/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 204 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	05/22/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>179</b>	10.0	05/23/2014	ND	201	101	200	7.89	
<b>DRO &gt;C10-C28</b>	<b>9960</b>	10.0	05/23/2014	ND	224	112	200	10.1	

Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 435 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	05/16/2014	Sampling Date:	05/15/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

**Sample ID: OVERSPRAY 1 @ 1' (H401510-02)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2014	ND	2.27	114	2.00	2.21	
Toluene*	0.052	0.050	05/21/2014	ND	2.23	112	2.00	1.54	
Ethylbenzene*	0.110	0.050	05/21/2014	ND	2.13	107	2.00	1.16	
Total Xylenes*	0.692	0.150	05/21/2014	ND	6.73	112	6.00	0.527	
Total BTX	0.854	0.300	05/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/22/2014	ND	400	100	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	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	22.3	10.0	05/23/2014	ND	224	112	200	10.1	

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	05/16/2014	Sampling Date:	05/15/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

**Sample ID: OVERSPRAY 2 @ SURFACE (H401510-03)**

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.119</b>	0.050	05/23/2014	ND	2.27	114	2.00	2.21	
<b>Toluene*</b>	<b>0.988</b>	0.050	05/23/2014	ND	2.23	112	2.00	1.54	
<b>Ethylbenzene*</b>	<b>0.767</b>	0.050	05/23/2014	ND	2.13	107	2.00	1.16	
<b>Total Xylenes*</b>	<b>4.30</b>	0.150	05/23/2014	ND	6.73	112	6.00	0.527	
<b>Total BTEX</b>	<b>6.18</b>	0.300	05/23/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	05/22/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>96.6</b>	10.0	05/23/2014	ND	202	101	200	0.794	
<b>DRO &gt;C10-C28</b>	<b>10000</b>	10.0	05/23/2014	ND	224	112	200	0.343	

Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 435 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	05/16/2014	Sampling Date:	05/15/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

**Sample ID: OVERSPRAY 2 @ 1' (H401510-04)**

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	05/21/2014	ND	2.27	114	2.00	2.21	
Toluene*	<0.050	0.050	05/21/2014	ND	2.23	112	2.00	1.54	
Ethylbenzene*	0.092	0.050	05/21/2014	ND	2.13	107	2.00	1.16	
Total Xylenes*	0.534	0.150	05/21/2014	ND	6.73	112	6.00	0.527	
Total BTEx	0.626	0.300	05/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/22/2014	ND	400	100	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	05/23/2014	ND	202	101	200	0.794	
DRO >C10-C28	22.5	10.0	05/23/2014	ND	224	112	200	0.343	

Surrogate: 1-Chlorooctane 117 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2320 FAX (505) 393-2476

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: Cypress 28 Federal Rd

Project Location: Rawhide Rd

Sample Name: Left Samples

FOR LAB USE ONLY

Lab I.D.

H40151D

OVERSPRAY residue  
OVERSPRAY residue  
OVERSPRAY residue

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Relinquished By:

Relinquished By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

MATRIX

PRESERV

SAMPLING

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

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

REMARKS:

Date: 5/16/14  
Time: 14:25  
Received By: Cliff Brunson

Date:  
Time:

Sample Condition  
Cool Intact  
☒ Yes ☐ No

CHECKED BY: [Signature]

-70  
-70



## Kathy Purvis

---

**From:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>  
**Sent:** Thursday, January 09, 2014 10:30 AM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** RE: OXY-Cypress 28 Federal #3H-Remediation Plan

Reference: OXY USA, Inc. \* Cypress 28 Fed 003H \* 30-015-38287 \* D-28-23s-29e \* Eddy County, New Mexico  
NMOCD Tracking number: 2RP-1639 \* Date of release: 4/11/2013

Cliff,

Your proposal for remediation of the above reference produced fluid release is approved. Please notify OCD prior to commencement of remedial activities. 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:** Thursday, January 02, 2014 12:41 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY-Cypress 28 Federal #3H-Remediation Plan

Mike,

This e-mail is to confirm our conversation on December 18, 2013 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate the three areas to varying depths as depicted on the attached site drawing. The area will then be backfilled with clean soil.

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

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
President  
BBC International, Inc.  
World-Wide Environmental Specialists

Mailing Address:  
P. O. Box 805  
Hobbs, NM 88241-0805 USA

Shipping Address:  
1324 W. Marland St.  
Hobbs, NM 88240 USA  
Phone: (575) 397-6388  
Fax: (575) 397-0397

E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

\*\*\*\*\*

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\*\*\*\*\*

## Kathy Purvis

---

**From:** Van Curen, Jennifer <jvancure@blm.gov>  
**Sent:** Thursday, January 30, 2014 6:52 AM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** Re: FW: OXY-Cypress 28 Federal #3H-Remediation Plan

Cliff,

JVC13046NU

Release 4/11/13 -- Report 4/29/13 -- Samples 7/30/13 -- Plan 1/29/14

Due to age of samples and levels, bottom and side confirmations will be required. There will also need to be samples taken from two areas in spray zone. No plans were submitted for this area. If samples show there needs to be some remediation, than work will be required. This could include washing down vegetation and blending some areas that received a more concentrated spray. This work can be approved via phone call to prevent holding up equipment.

Pad should be bermed with compactable caliche to prevent future spills from leaving the pad and impacting reclaimed pasture areas.

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

JENNIFER E VAN CUREN  
ENVIRONMENTAL PROTECTION SPECIALIST  
DOI-BLM-CARLSBAD FIELD OFFICE  
320 E GREENE ST. CARLSBAD, NM 88220  
OFFICE- 575-234-5905  
CELL - 575-361-0042  
FAX - 575-234-5927

On Tue, Jan 28, 2014 at 6:22 PM, Cliff P. Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)> wrote:  
Jennifer,

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 as referenced by his e-mail below. Oxy will excavate the three areas to varying depths as depicted on the attached site drawing. The area will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated. If you have any questions, please let us know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
President  
BBC International, Inc.  
World-Wide Environmental Specialists  
Mailing Address:  
P. O. Box 805  
Hobbs, NM 88241-0805 USA  
Shipping Address:  
1324 W. Marland St.  
Hobbs, NM 88240 USA  
Phone: (575) 397-6388  
Fax: (575) 397-0397  
E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

\*\*\*\*\*

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**From:** Mike Bratcher <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>

**Date:** Thursday, January 9, 2014 10:29 AM

**To:** Cliff Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)>

**Cc:** C J Summers <[Chancey\\_Summers@oxy.com](mailto:Chancey_Summers@oxy.com)>, Ken Swinney <[kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com)>, Jennifer Gilkey <[jgilkey@bbcinternational.com](mailto:jgilkey@bbcinternational.com)>, Kathy Purvis <[kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)>

**Subject:** RE: OXY-Cypress 28 Federal #3H-Remediation Plan

Reference: OXY USA, Inc. \* Cypress 28 Fed 003H \* 30-015-38287 \* D-28-23s-29e \* Eddy County, New Mexico

NMOCD Tracking number: 2RP-1639 \* Date of release: 4/11/2013

Cliff,

Your proposal for remediation of the above reference produced fluid release is approved. Please notify OCD prior to commencement of remedial activities. 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:** Thursday, January 02, 2014 12:41 PM

**To:** Bratcher, Mike, EMNRD

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

**Subject:** OXY-Cypress 28 Federal #3H-Remediation Plan

Mike,

This e-mail is to confirm our conversation on December 18, 2013 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate the three areas to varying depths as depicted on the attached site drawing. The area will then be backfilled with clean soil.

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

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

BBC International, Inc.

World-Wide Environmental Specialists

Mailing Address:

P. O. Box 805

Hobbs, NM 88241-0805 USA

Shipping Address:

1324 W. Marland St.

Hobbs, NM 88240 USA

Phone: (575) 397-6388

Fax: (575) 397-0397

E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

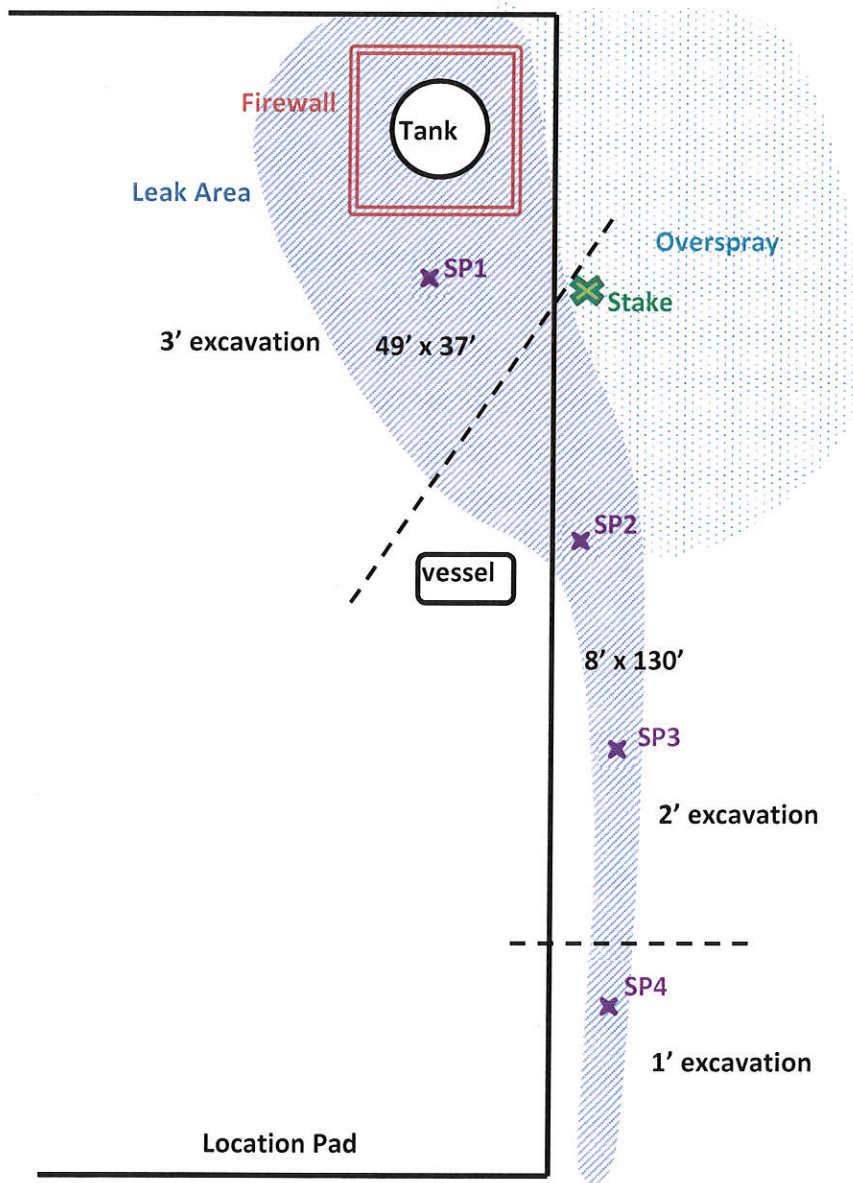
\*\*\*\*\*

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Oxy  
Cypress 28 Federal #3H



U/L D, Section 28, T23S, R29E  
435' FNL and 60' FWL  
Eddy County, NM  
N 32.28206° W 103.99796°  
API# 30-015-38287

BBC International, Inc.

Oxy

Cypress 28 Federal #3H

Date: 04/25/2013

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2013

# Groundwater Plot

Oxy Cypress 28 Federal #3H

County  
Eddy

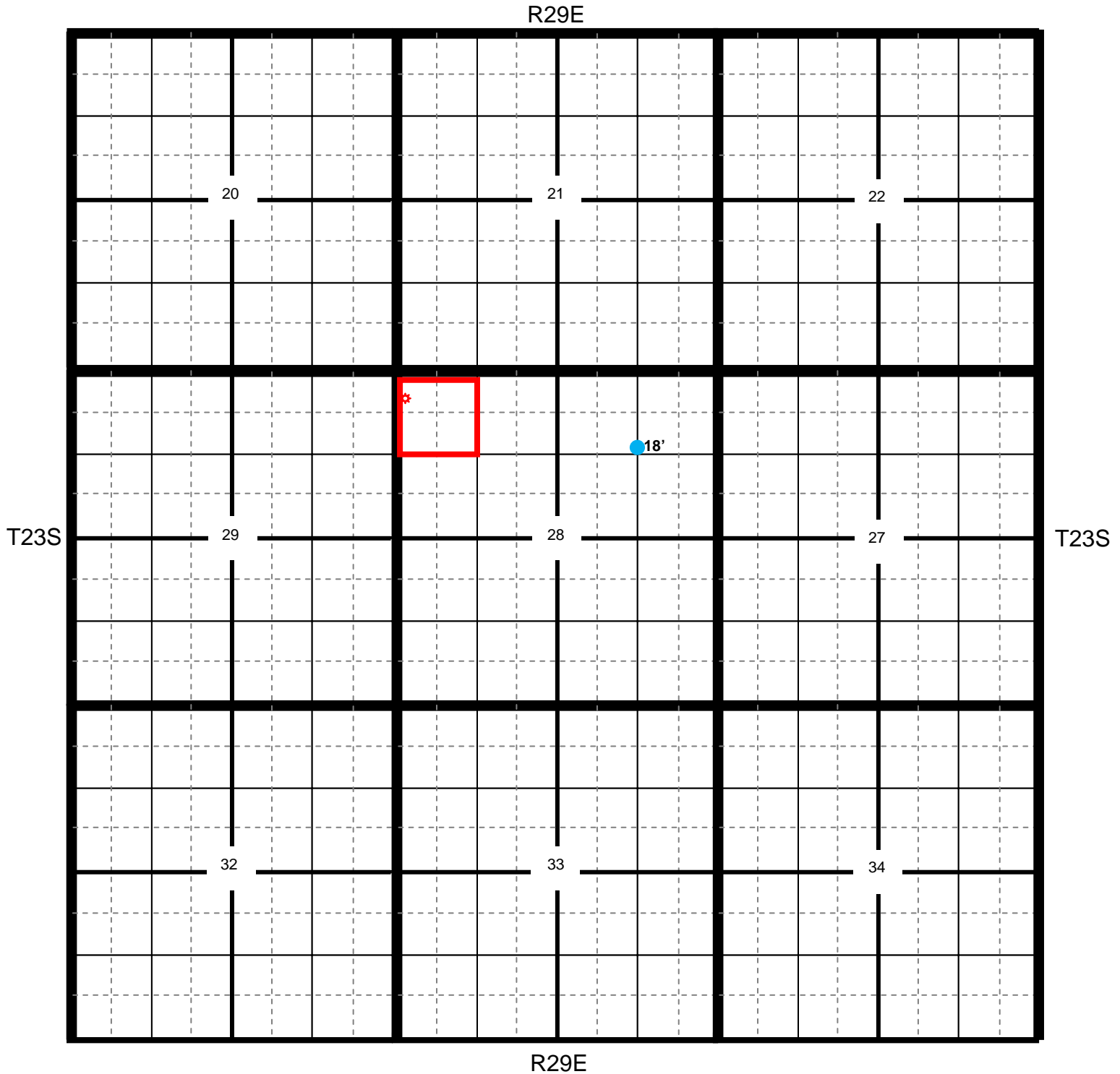
Unit Letter  
D

Section  
28

Township  
23S

Range  
29E

Trend Map 50'



⚙ Location

● OCD

● USGS

● SEO

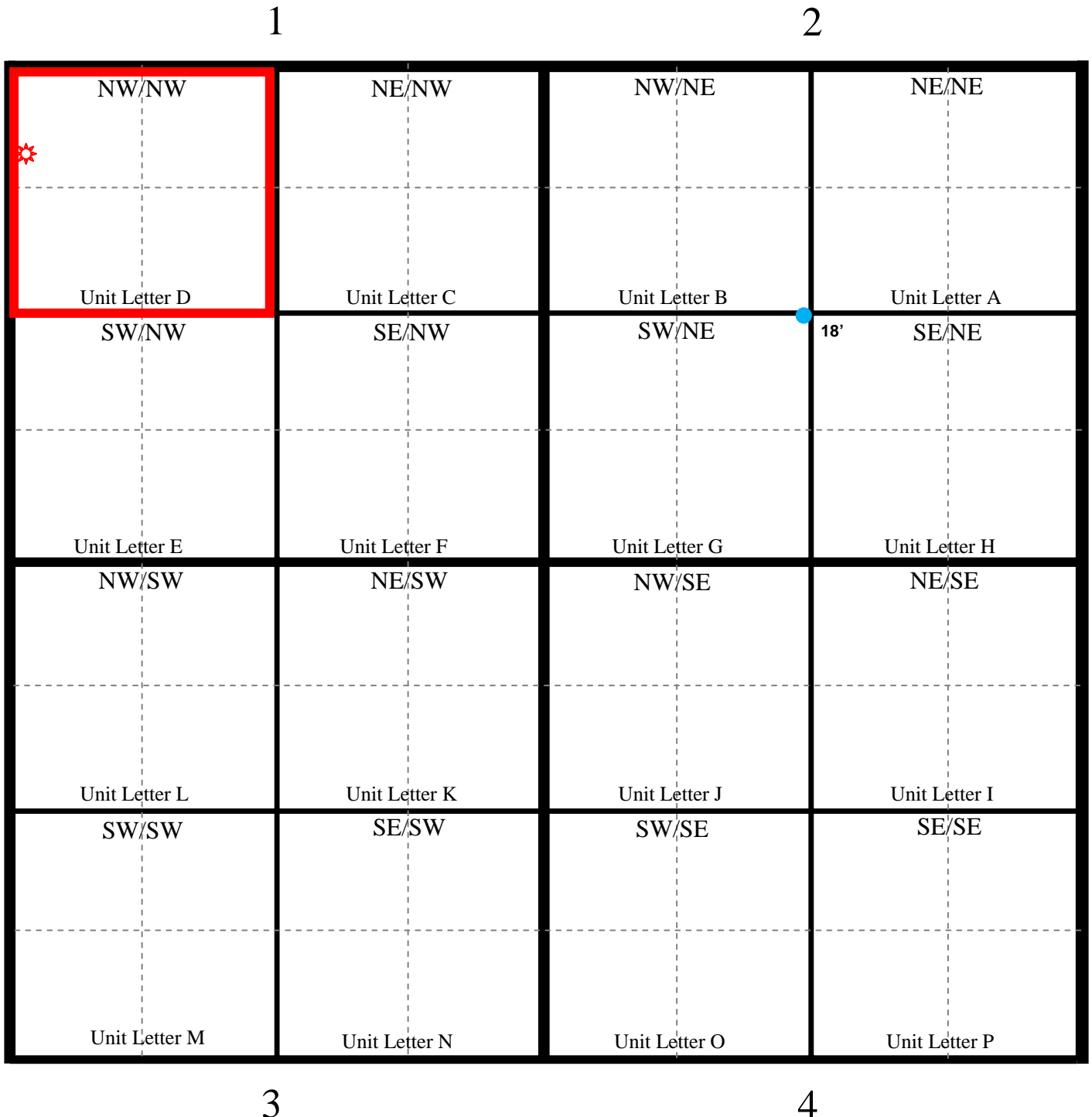
● All Databases



## Oxy Cypress 28 Federal #3H

<b>County</b> Eddy	<b>Unit Letter</b> D	<b>Section</b> 28	<b>Township</b> T23S	<b>Range</b> R29E
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Trend Map 50'



**Laboratory Analytical Results Summary  
CYPRESS 28 FEDERAL #3H**

		Sample	SP1 @ 6"	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'
Analyte	Method	Date	4/19/13	7/24/13	7/24/13	7/24/13	8/26/13	8/26/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<b>0.23</b>	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>4.46</b>	<0.050	<0.050	<b>0.076</b>	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>7.79</b>	<b>0.054</b>	<0.050	<b>0.076</b>	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>42.2</b>	<b>0.34</b>	<0.150	<b>0.52</b>	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>54.7</b>	<b>0.393</b>	<0.300	<b>0.672</b>	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>32</b>	<b>128</b>	<b>32</b>	<b>224</b>	n/a	n/a
<b>GRO</b>	TPH 8015M		<b>2770</b>	<b>17.1</b>	<10.0	<50.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>22800</b>	<b>616</b>	<10.0	<b>8300</b>	<10.0	<10.0

		Sample	SP2 @ 6"	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	4/19/13	7/24/13	7/24/13	7/24/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<b>0.954</b>	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>5.83</b>	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>8.33</b>	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>38.2</b>	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>53.4</b>	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>48</b>	<b>48</b>	<b>48</b>	<b>32</b>
<b>GRO</b>	TPH 8015M		<b>2770</b>	<10.0	<b>20.7</b>	<10.0
<b>DRO</b>	TPH 8015M		<b>22500</b>	<b>149</b>	<b>1230</b>	<b>13</b>

		Sample	SP3 @ 6"	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	4/19/13	7/24/13	7/24/13	7/24/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<b>0.693</b>	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>15.4</b>	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>24.7</b>	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>145</b>	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>186</b>	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<16.0	<b>48</b>	<b>48</b>	<b>32</b>
<b>GRO</b>	TPH 8015M		<b>7210</b>	<10.0	<b>22.6</b>	<10.0
<b>DRO</b>	TPH 8015M		<b>39200</b>	<b>869</b>	<b>1250</b>	<10.0

		Sample	SP4 @ 6"	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
Analyte	Method	Date	4/19/13	7/24/13	7/24/13	7/24/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<b>0.205</b>	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>5.97</b>	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>8.23</b>	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>47.7</b>	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>62.1</b>	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<16.0	<b>48</b>	<b>64</b>	<b>64</b>
<b>GRO</b>	TPH 8015M		<b>2500</b>	<10.0	<b>19.9</b>	<10.0

Laboratory Analytical Results Summary  
CYPRESS 28 FEDERAL #3H

DRO	TPH 8015M		33900	968	1120	18
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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April 25, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 28 FED #3H

Enclosed are the results of analyses for samples received by the laboratory on 04/23/13 9:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/23/2013  
Reported: 04/25/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/19/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 6" (H300944-01)**

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.230</b>	0.200	04/24/2013	ND	1.75	87.5	2.00	0.211	
<b>Toluene*</b>	<b>4.46</b>	0.200	04/24/2013	ND	1.61	80.6	2.00	0.0547	
<b>Ethylbenzene*</b>	<b>7.79</b>	0.200	04/24/2013	ND	1.73	86.3	2.00	1.63	
<b>Total Xylenes*</b>	<b>42.2</b>	0.600	04/24/2013	ND	5.06	84.4	6.00	1.34	
<b>Total BTX</b>	<b>54.7</b>	1.20	04/24/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 302 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	04/24/2013	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>2770</b>	50.0	04/23/2013	ND	205	103	200	4.08	
<b>DRO &gt;C10-C28</b>	<b>22800</b>	50.0	04/23/2013	ND	190	94.9	200	8.60	

Surrogate: 1-Chlorooctane 285 % 65.2-140

Surrogate: 1-Chlorooctadecane 686 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/23/2013  
Reported: 04/25/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/19/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 6" (H300944-02)**

BTEx 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.954</b>	0.200	04/24/2013	ND	1.75	87.5	2.00	0.211	
<b>Toluene*</b>	<b>5.83</b>	0.200	04/24/2013	ND	1.61	80.6	2.00	0.0547	
<b>Ethylbenzene*</b>	<b>8.33</b>	0.200	04/24/2013	ND	1.73	86.3	2.00	1.63	
<b>Total Xylenes*</b>	<b>38.2</b>	0.600	04/24/2013	ND	5.06	84.4	6.00	1.34	
<b>Total BTEx</b>	<b>53.4</b>	1.20	04/24/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 330 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	04/24/2013	ND	448	112	400	3.64	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>2770</b>	50.0	04/23/2013	ND	205	103	200	4.08	
<b>DRO &gt;C10-C28</b>	<b>22500</b>	50.0	04/23/2013	ND	190	94.9	200	8.60	

Surrogate: 1-Chlorooctane 258 % 65.2-140

Surrogate: 1-Chlorooctadecane 703 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/23/2013  
Reported: 04/25/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/19/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 6" (H300944-03)**

BTEx 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.693</b>	0.200	04/24/2013	ND	1.75	87.5	2.00	0.211	
<b>Toluene*</b>	<b>15.4</b>	0.200	04/24/2013	ND	1.61	80.6	2.00	0.0547	
<b>Ethylbenzene*</b>	<b>24.7</b>	0.200	04/24/2013	ND	1.73	86.3	2.00	1.63	
<b>Total Xylenes*</b>	<b>145</b>	0.600	04/24/2013	ND	5.06	84.4	6.00	1.34	
<b>Total BTEx</b>	<b>186</b>	1.20	04/24/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 419 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/24/2013	ND	448	112	400	3.64	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>7210</b>	50.0	04/23/2013	ND	205	103	200	4.08	
<b>DRO &gt;C10-C28</b>	<b>39200</b>	50.0	04/23/2013	ND	190	94.9	200	8.60	

Surrogate: 1-Chlorooctane 394 % 65.2-140

Surrogate: 1-Chlorooctadecane 1270 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/23/2013  
Reported: 04/25/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/19/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 6" (H300944-04)**

BTEx 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.205</b>	0.200	04/24/2013	ND	1.75	87.5	2.00	0.211	
<b>Toluene*</b>	<b>5.97</b>	0.200	04/24/2013	ND	1.61	80.6	2.00	0.0547	
<b>Ethylbenzene*</b>	<b>8.23</b>	0.200	04/24/2013	ND	1.73	86.3	2.00	1.63	
<b>Total Xylenes*</b>	<b>47.7</b>	0.600	04/24/2013	ND	5.06	84.4	6.00	1.34	
<b>Total BTEX</b>	<b>62.1</b>	1.20	04/24/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 320 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/24/2013	ND	448	112	400	3.64	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>2500</b>	50.0	04/23/2013	ND	205	103	200	4.08	
<b>DRO &gt;C10-C28</b>	<b>33900</b>	50.0	04/23/2013	ND	190	94.9	200	8.60	

Surrogate: 1-Chlorooctane 272 % 65.2-140

Surrogate: 1-Chlorooctadecane 1160 % 63.6-154

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\*=Accredited Analyte

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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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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---

Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

August 07, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 28 FED #3H

Enclosed are the results of analyses for samples received by the laboratory on 07/30/13 16:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1' (H301800-01)**

BTEX 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78	
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21	
Ethylbenzene*	0.054	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70	
Total Xylenes*	0.340	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13	
Total BTEX	0.393	0.300	08/06/2013	ND					

Surrogate: Dibromofluoromethane 99.3 % 61.3-142  
Surrogate: Toluene-d8 97.5 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 196 % 65.7-141

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/01/2013	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	17.1	10.0	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	616	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 75.3 % 65.2-140  
Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 2' (H301800-02)**

BTX 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78	
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21	
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70	
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13	
Total BTX	<0.300	0.300	08/06/2013	ND					

Surrogate: Dibromofluoromethane 99.6 % 61.3-142

Surrogate: Toluene-d8 98.2 % 71.3-129

Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2013	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	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	<10.0	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 76.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.3 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 3' (H301800-03)**

BTX 8260B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2013	ND	1.91	95.4	2.00	5.78	
Toluene*	0.076	0.050	08/07/2013	ND	1.77	88.4	2.00	6.21	
Ethylbenzene*	0.076	0.050	08/07/2013	ND	1.75	87.3	2.00	5.70	
Total Xylenes*	0.520	0.150	08/07/2013	ND	5.21	86.9	6.00	5.13	
Total BTX	0.672	0.300	08/07/2013	ND					

Surrogate: Dibromofluoromethane 96.0 % 61.3-142  
Surrogate: Toluene-d8 98.6 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 180 % 65.7-141

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/01/2013	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	<50.0	50.0	08/02/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	8300	50.0	08/02/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 65.3 % 65.2-140  
Surrogate: 1-Chlorooctadecane 517 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1' (H301800-04)**

BTX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78		
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21		
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70		
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13		
Total BTX	<0.300	0.300	08/06/2013	ND						

Surrogate: Dibromofluoromethane 97.6 % 61.3-142  
Surrogate: Toluene-d8 98.0 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 132 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2013	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	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	149	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 76.2 % 65.2-140  
Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 2' (H301800-05)**

BTX 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78	
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21	
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70	
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13	
Total BTX	<0.300	0.300	08/06/2013	ND					

Surrogate: Dibromofluoromethane 97.2 % 61.3-142  
Surrogate: Toluene-d8 96.6 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 197 % 65.7-141

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2013	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	20.7	10.0	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	1230	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 87.9 % 65.2-140  
Surrogate: 1-Chlorooctadecane 122 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 3' (H301800-06)**

BTEX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78		
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21		
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70		
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13		
Total BTEX	<0.300	0.300	08/06/2013	ND						

Surrogate: Dibromofluoromethane 95.7 % 61.3-142  
Surrogate: Toluene-d8 97.1 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2013	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	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	13.0	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 90.2 % 65.2-140  
Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1' (H301800-07)**

BTX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78		
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21		
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70		
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13		
Total BTX	<0.300	0.300	08/06/2013	ND						

Surrogate: Dibromofluoromethane 96.2 % 61.3-142  
Surrogate: Toluene-d8 98.9 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 119 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2013	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	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	869	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 88.0 % 65.2-140  
Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 2' (H301800-08)**

BTX 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78	
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21	
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70	
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13	
Total BTX	<0.300	0.300	08/06/2013	ND					

Surrogate: Dibromofluoromethane 99.3 % 61.3-142  
Surrogate: Toluene-d8 95.5 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 163 % 65.7-141

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2013	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	22.6	10.0	08/01/2013	ND	181	90.5	200	4.59	
DRO >C10-C28	1250	10.0	08/01/2013	ND	191	95.6	200	3.53	

Surrogate: 1-Chlorooctane 98.9 % 65.2-140  
Surrogate: 1-Chlorooctadecane 139 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 3' (H301800-09)**

BTEX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78		
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21		
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70		
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13		
Total BTEX	<0.300	0.300	08/06/2013	ND						

Surrogate: Dibromofluoromethane 96.9 % 61.3-142  
Surrogate: Toluene-d8 98.2 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2013	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	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	<10.0	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 75.1 % 65.2-140  
Surrogate: 1-Chlorooctadecane 91.4 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 1' (H301800-10)**

BTX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78		
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21		
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70		
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13		
Total BTX	<0.300	0.300	08/06/2013	ND						

Surrogate: Dibromofluoromethane 98.2 % 61.3-142  
Surrogate: Toluene-d8 98.9 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 127 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2013	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	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	968	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 92.3 % 65.2-140  
Surrogate: 1-Chlorooctadecane 133 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 2' (H301800-11)**

BTEx 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78	
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21	
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70	
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13	
Total BTEX	<0.300	0.300	08/06/2013	ND					

Surrogate: Dibromofluoromethane 96.9 % 61.3-142  
Surrogate: Toluene-d8 99.2 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 164 % 65.7-141

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/01/2013	ND	416	104	400	0.00	
TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	19.9	10.0	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	1120	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 94.5 % 65.2-140  
Surrogate: 1-Chlorooctadecane 132 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received: 07/30/2013  
Reported: 08/07/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/24/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 3' (H301800-12)**

BTX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/06/2013	ND	1.91	95.4	2.00	5.78		
Toluene*	<0.050	0.050	08/06/2013	ND	1.77	88.4	2.00	6.21		
Ethylbenzene*	<0.050	0.050	08/06/2013	ND	1.75	87.3	2.00	5.70		
Total Xylenes*	<0.150	0.150	08/06/2013	ND	5.21	86.9	6.00	5.13		
Total BTX	<0.300	0.300	08/06/2013	ND						

Surrogate: Dibromofluoromethane 97.2 % 61.3-142  
Surrogate: Toluene-d8 97.7 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/01/2013	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	08/02/2013	ND	178	89.1	200	1.03	
DRO >C10-C28	18.0	10.0	08/02/2013	ND	186	92.8	200	2.16	

Surrogate: 1-Chlorooctane 97.5 % 65.2-140  
Surrogate: 1-Chlorooctadecane 121 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



# CARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

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: SAME																									
Phone #: 575-397-6388		City:																									
Fax #: 575-397-0397		State:																									
Project #:		Zip:																									
Project Name: Cypress 28 Feb 24		Project Owner: OK																									
Project Location:		Phone #:																									
Sampler Name: Peter Hernandez		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.																									
H301800		SP10 1'																									
1		SP10 1'																									
2		SP10 1'																									
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Relinquished By: <i>PA 8</i>		Date: <i>7/30/13</i>		Received By: <i>Medi Hernandez</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Relinquished By: <i>PA 8</i>		Date: <i>7/30/13</i>		Received By: <i>Medi Hernandez</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Delivered By: (Circle One) <i>-40</i>		Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact		CHECKED BY: <i>PA 8</i>					
Sampler - UPS - Bus - Other: <i>-40</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							

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

#54



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

282

#54

September 03, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 28 FED #3H

Enclosed are the results of analyses for samples received by the laboratory on 08/27/13 9:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 08/27/2013  
Reported: 09/03/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 08/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 4' (H302060-01)**

BTEX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2013	ND	2.22	111	2.00	13.0	
Toluene*	<0.050	0.050	08/29/2013	ND	2.11	105	2.00	9.88	
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	2.05	102	2.00	10.5	
Total Xylenes*	<0.150	0.150	08/29/2013	ND	6.12	102	6.00	9.59	
Total BTEX	<0.300	0.300	08/29/2013	ND					

Surrogate: Dibromofluoromethane 103 % 61.3-142

Surrogate: Toluene-d8 99.7 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91	
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	205	102	200	5.30	

Surrogate: 1-Chlorooctane 95.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.0 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 08/27/2013  
Reported: 09/03/2013  
Project Name: CYPRESS 28 FED #3H  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 08/26/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 5' (H302060-02)**

BTEX 8260B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2013	ND	2.22	111	2.00	13.0		
Toluene*	<0.050	0.050	08/29/2013	ND	2.11	105	2.00	9.88		
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	2.05	102	2.00	10.5		
Total Xylenes*	<0.150	0.150	08/29/2013	ND	6.12	102	6.00	9.59		
Total BTEX	<0.300	0.300	08/29/2013	ND						

Surrogate: Dibromofluoromethane 103 % 61.3-142  
Surrogate: Toluene-d8 99.0 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/30/2013	ND	210	105	200	4.91		
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	205	102	200	5.30		

Surrogate: 1-Chlorooctane 94.3 % 65.2-140  
Surrogate: 1-Chlorooctadecane 94.7 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



# CARDINAL Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

### BILL TO

### ANALYSIS REQUEST

Company Name: <b>ABC Int.</b>		P.O. #:
Project Manager: <b>Chad Bowman</b>		Company:
Address: <b>1324 E. Marland</b>		Attn:
City: <b>Hobbs</b> State: <b>NM</b> Zip: <b>88240</b>		Address: <b>24ME</b>
Phone #: <b>393 6388</b> Fax #:		City:
Project #: <b>28</b> Project Owner:		State:
Project Name: <b>CYPRESS 28 FEB 34</b>		Zip:
Project Location: <b> Hwy 428</b>		Phone #:
Sampler Name: <b>For the sample 2</b>		Fax #:
FOR LAB USE ONLY		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.
H302000	SPIC 4'	# CONTAINERS
		GROUNDWATER
		WASTEWATER
		SOIL
		OIL
		SLUDGE
		OTHER:
		ACID/BASE:
		ICE / COOL
		OTHER:
		DATE
		TIME
		TPH
		BTEX
Relinquished By: <b>Heidi Mendon</b>		Relinquished By:
Date: <b>8-27-13</b>		Received By:
Time: <b>10:30</b>		Received By:
Delivered By: (Circle One)		Sample Condition
Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sampler - UPS - Bus - Other:		CHECKED BY: (Initials)
5.72		<b>Heidi Mendon</b>
REMARKS:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

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 28 Federal #3H	Facility Type	Gathering

Surface Owner	BLM	Mineral Owner		API No.	30-015-38287
---------------	-----	---------------	--	---------	--------------

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	28	23S	29E	435	North	60	West	Eddy

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

### NATURE OF RELEASE

Type of Release	Oil	Volume of Release	140 bbls	Volume Recovered	130 bbls
Source of Release	Power failure on a transfer pump caused tank to overflow	Date and Hour of Occurrence	04/11/2013	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, James Amos -BLM		
By Whom?	Chancey Summers	Date and Hour	04/12/2013 @ 8:18 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.\*

Describe Cause of Problem and Remedial Action Taken.\*

Power failure on a transfer pump caused a tank to overflow and leak 140 bbls of oil on the ground. 130 bbls of oil were recovered via vacuum truck and power was restored to the pump.

Describe Area Affected and Cleanup Action Taken.\*

Power failure on a transfer pump caused a tank to overflow and leak 140 bbls of oil on the ground. 130 bbls of oil were recovered via vacuum truck and power was restored to the pump. Remediation will be performed in accordance with a plan approved by NMOCD and BLM.

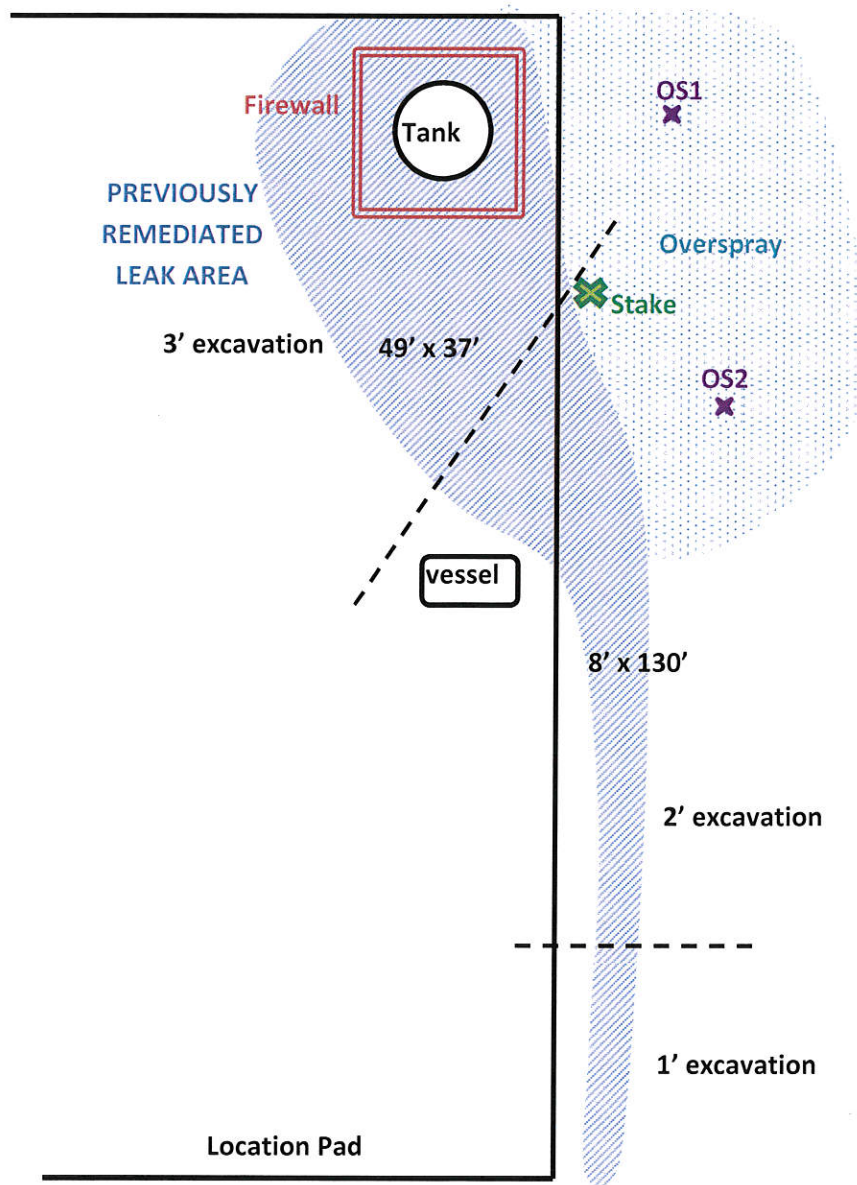
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger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

Signature:	<u>OIL CONSERVATION DIVISION</u>		
Printed Name:	Chancey Summers	Approved by District Supervisor:	
Title:	HES Specialist	Approval Date:	Expiration Date:
E-mail Address:	Chancey.Summers@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date:	4-29-12	Phone:	(575) 397-8216

\* Attach Additional Sheets If Necessary



Oxy  
Cypress 28 Federal #3H



U/L D, Section 28, T23S, R29E  
435' FNL and 60' FWL  
Eddy County, NM  
N 32.28206° W 103.99796°  
API# 30-015-38287

BBC International, Inc.	
Oxy	
Cypress 28 Federal #3H	
Date: 04/25/2013	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2013



# Groundwater Plot

Oxy Cypress 28 Federal #3H

County  
Eddy

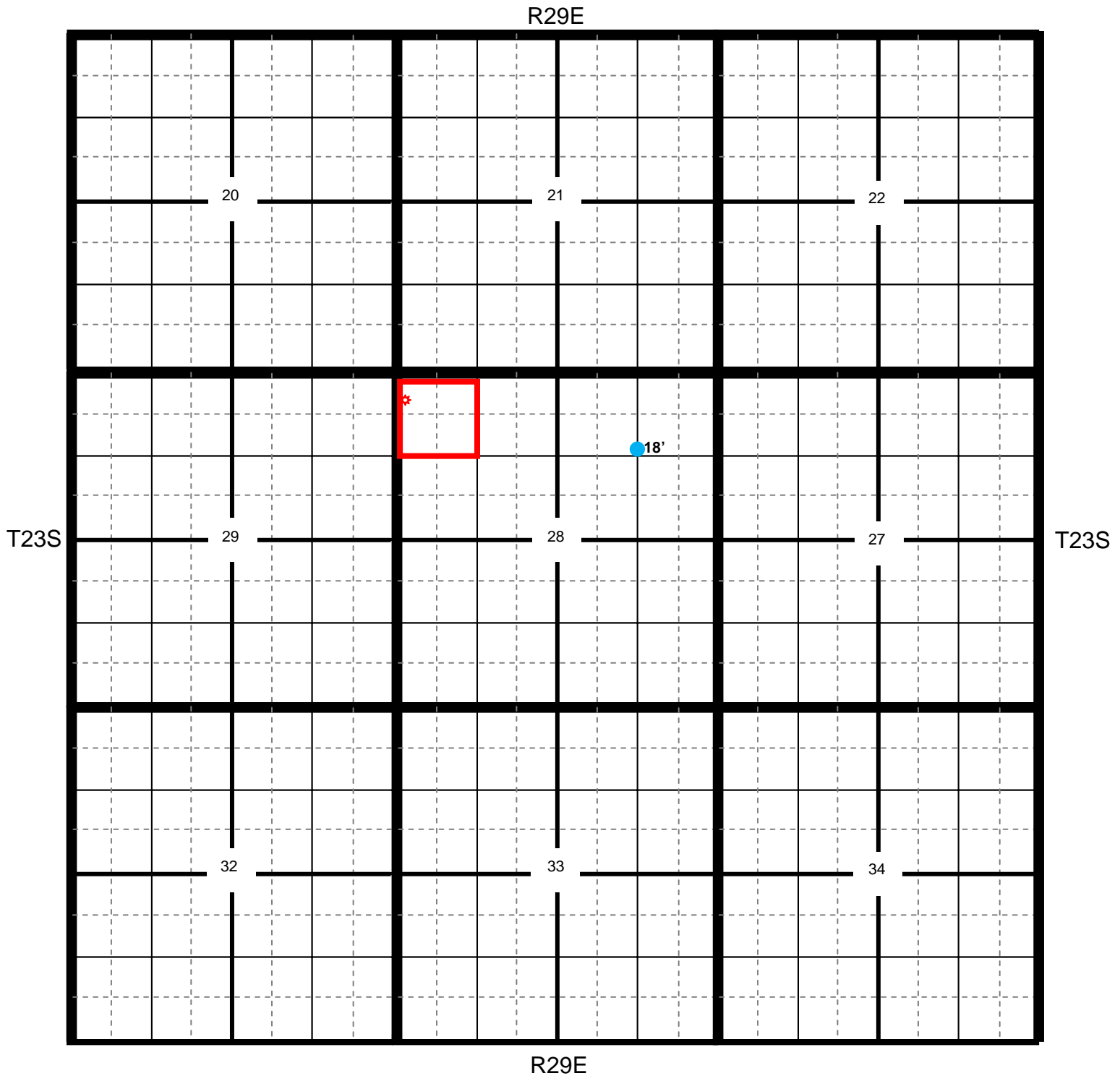
Unit Letter  
D

Section  
28

Township  
23S

Range  
29E

Trend Map 50'



Location

OCD

USGS

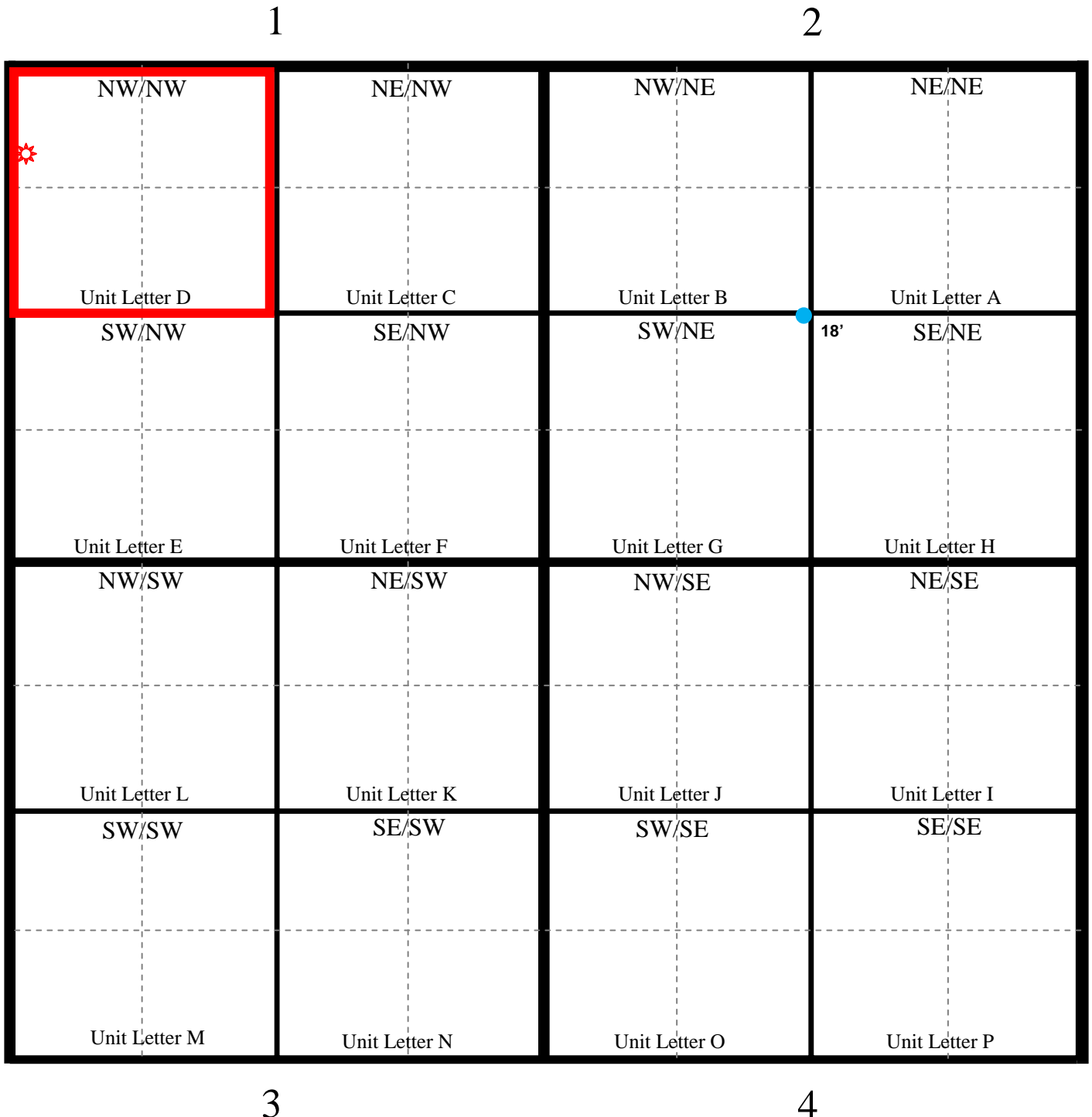
SEO

All Databases

## Oxy Cypress 28 Federal #3H

<b>County</b> Eddy	<b>Unit Letter</b> D	<b>Section</b> 28	<b>Township</b> T23S	<b>Range</b> R29E
-----------------------	-------------------------	----------------------	-------------------------	----------------------

Trend Map 50'



**Laboratory Analytical Results Summary**  
**Cypress 28 Federal #3H**

		Sample	Overspray 1 @ Surface	Overspray 1 @ 1'
Analyte	Method	Date	5/15/14	5/15/14
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<b>0.106</b>	<0.050
<b>Toluene</b>	BTEX 8021B		<b>2.86</b>	<b>0.052</b>
<b>Ethylbenzene</b>	BTEX 8021B		<b>2.59</b>	<b>0.11</b>
<b>Total Xylenes</b>	BTEX 8021B		<b>14.4</b>	<b>0.692</b>
<b>Total BTEX</b>	BTEX 8021B		<b>20</b>	<b>0.854</b>
<b>Chloride</b>	SM4500Cl-B		<b>64</b>	<b>96</b>
<b>GRO</b>	TPH 8015M		<b>179</b>	<10.0
<b>DRO</b>	TPH 8015M		<b>9960</b>	<b>22.3</b>

		Sample	Overspray 2 @ Surface	Overspray 2 @ 1'
Analyte	Method	Date	5/15/14	5/15/14
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<b>0.119</b>	<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.988</b>	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>0.767</b>	<b>0.092</b>
<b>Total Xylenes</b>	BTEX 8021B		<b>4.3</b>	<b>0.534</b>
<b>Total BTEX</b>	BTEX 8021B		<b>6.18</b>	<b>0.626</b>
<b>Chloride</b>	SM4500Cl-B		<b>32</b>	<b>80</b>
<b>GRO</b>	TPH 8015M		<b>96.6</b>	<10.0
<b>DRO</b>	TPH 8015M		<b>10000</b>	<b>22.5</b>





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

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May 27, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 28 FED #3H

Enclosed are the results of analyses for samples received by the laboratory on 05/16/14 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

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:	05/16/2014	Sampling Date:	05/15/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

**Sample ID: OVERSPRAY 1 @ SURFACE (H401510-01)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.106</b>	0.050	05/22/2014	ND	2.27	114	2.00	2.21	
<b>Toluene*</b>	<b>2.86</b>	0.050	05/22/2014	ND	2.23	112	2.00	1.54	
<b>Ethylbenzene*</b>	<b>2.59</b>	0.050	05/22/2014	ND	2.13	107	2.00	1.16	
<b>Total Xylenes*</b>	<b>14.4</b>	0.150	05/22/2014	ND	6.73	112	6.00	0.527	
<b>Total BTX</b>	<b>20.0</b>	0.300	05/22/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 204 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	05/22/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>179</b>	10.0	05/23/2014	ND	201	101	200	7.89	
<b>DRO &gt;C10-C28</b>	<b>9960</b>	10.0	05/23/2014	ND	224	112	200	10.1	

Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 435 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	05/16/2014	Sampling Date:	05/15/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

**Sample ID: OVERSPRAY 1 @ 1' (H401510-02)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2014	ND	2.27	114	2.00	2.21	
Toluene*	0.052	0.050	05/21/2014	ND	2.23	112	2.00	1.54	
Ethylbenzene*	0.110	0.050	05/21/2014	ND	2.13	107	2.00	1.16	
Total Xylenes*	0.692	0.150	05/21/2014	ND	6.73	112	6.00	0.527	
Total BTX	0.854	0.300	05/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/22/2014	ND	400	100	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	05/23/2014	ND	201	101	200	7.89	
DRO >C10-C28	22.3	10.0	05/23/2014	ND	224	112	200	10.1	

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	05/16/2014	Sampling Date:	05/15/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

**Sample ID: OVERSPRAY 2 @ SURFACE (H401510-03)**

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.119</b>	0.050	05/23/2014	ND	2.27	114	2.00	2.21	
<b>Toluene*</b>	<b>0.988</b>	0.050	05/23/2014	ND	2.23	112	2.00	1.54	
<b>Ethylbenzene*</b>	<b>0.767</b>	0.050	05/23/2014	ND	2.13	107	2.00	1.16	
<b>Total Xylenes*</b>	<b>4.30</b>	0.150	05/23/2014	ND	6.73	112	6.00	0.527	
<b>Total BTEX</b>	<b>6.18</b>	0.300	05/23/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	05/22/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>96.6</b>	10.0	05/23/2014	ND	202	101	200	0.794	
<b>DRO &gt;C10-C28</b>	<b>10000</b>	10.0	05/23/2014	ND	224	112	200	0.343	

Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 435 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	05/16/2014	Sampling Date:	05/15/2014
Reported:	05/27/2014	Sampling Type:	Soil
Project Name:	CYPRESS 28 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE RD		

**Sample ID: OVERSPRAY 2 @ 1' (H401510-04)**

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	05/21/2014	ND	2.27	114	2.00	2.21	
Toluene*	<0.050	0.050	05/21/2014	ND	2.23	112	2.00	1.54	
Ethylbenzene*	0.092	0.050	05/21/2014	ND	2.13	107	2.00	1.16	
Total Xylenes*	0.534	0.150	05/21/2014	ND	6.73	112	6.00	0.527	
Total BTEx	0.626	0.300	05/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/22/2014	ND	400	100	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	05/23/2014	ND	202	101	200	0.794	
DRO >C10-C28	22.5	10.0	05/23/2014	ND	224	112	200	0.343	

Surrogate: 1-Chlorooctane 117 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Cardinal Laboratories

\*=Accredited Analyte

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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

(505) 393-2320 FAX (505) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.  
Project Manager: Cliff Brunson

P.O. #:

Address: P.O. Box 805

Company:

City: Hobbs

State: NM Zip: 88241

Attn:

Phone #: 575-397-6388

Fax #: 575-397-0397

Address:

Project #:

Project Owner:

City:

Project Name:

Zip:

Project Location:

Phone #:

Sample Name:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H40151D

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

MATRIX

PRESERV

SAMPLING

OVERSPRAY residue  
OVERSPRAY residue  
OVERSPRAY residue

5/5  
11/1  
130  
145  
220

CL -  
TPH  
BTEX

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Relinquished By:

Date:

Received By:

Time:

Revised By:

Relinquished By:

Date:

Received By:

Time:

Delivered By: (Circle One)

Sample Condition

Cool Intact

Yes Yes No No

CHECKED BY:

Initials

Phone Result: ☐ Yes ☐ No Add'l Phone #:  
Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

Sampler - UPS - Bus - Other:

-70

No No



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 28 Federal #3H	Facility Type	Gathering

Surface Owner	BLM	Mineral Owner		API No.	30-015-38287
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### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	28	23S	29E	435	North	60	West	Eddy

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

### NATURE OF RELEASE

Type of Release	Oil	Volume of Release	140 bbls	Volume Recovered	130 bbls
Source of Release	Power failure on a transfer pump caused tank to overflow	Date and Hour of Occurrence	04/11/2013	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, James Amos -BLM		
By Whom?	Chancey Summers	Date and Hour	04/12/2013 @ 8:18 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.\*

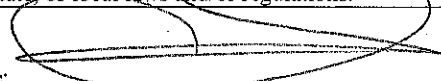
Describe Cause of Problem and Remedial Action Taken.\*

Power failure on a transfer pump caused a tank to overflow and leak 140 bbls of oil on the ground. 130 bbls of oil were recovered via vacuum truck and power was restored to the pump.

Describe Area Affected and Cleanup Action Taken.\*

Power failure on a transfer pump caused a tank to overflow and leak 140 bbls of oil on the ground. 130 bbls of oil were recovered via vacuum truck and power was restored to the pump. Remediation will be performed in accordance with a plan approved by NMOCD and BLM.

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

Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Chancey Summers		Approved by District Supervisor:	
Title: HES Specialist		Approval Date:	Expiration Date:
E-mail Address: Chancey.Summers@oxy.com		Conditions of Approval:	
Date: 4-29-12 Phone: (575) 397-8216		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary