

# Closure Report

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FEB 14 2014

NMOOD ARTESIA

## Site Description

Site Name:	Righthand Canyon 35-7 SWD Battery
Company:	Oxy Permian Ltd.
Legal Description:	U/L K, Section 35, T21S, R42E
County:	Eddy County, NM
GPS Coordinates:	N 32.43428° W 104.46979°

## Release Data

Date of Release:	06/30/2011 and 01/01/2014 (2 <sup>nd</sup> leak in exact same place)
Type of Release:	Produced water & oil, Produced water
Source of Release:	Gun barrel tank, tank overflow due to bad PLC card
Volume of Release:	800 bbls water & 100 bbls oil, 800 bbls water
Volume Recovered:	140 bbls total, 720 bbls

## Remediation Specifications

Remediation Parameters:	Excavate to a depth of 1' in areas of SP1-SP3, & to a depth of 2' in areas of SP4-SP6. Remove impacted gravel inside lined battery and replace with appropriate clean material. Obtain confirmation bottom & sidewall samples. Backfill excavations w/ clean soil. Microblaze remaining TPH as needed.
Remediation Activities:	12/9/2013 to 1/21/2014

Plan Sent to OCD:	09/23/2012	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	11/13/2012	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	12/16/2012	Email from Cliff Brunson to James Amos
BLM Approval of Plan:	12/17/2012	Email from James Amos to Cliff Brunson

## Supporting Documentation

Initial C-141	Signed 07/06/2011, Signed 01/09/2014
Final C-141	Signed 02/12/2014 (both)
Site Diagram	January 2012, January 2014
Groundwater Plot	75'-80'
TOPO Maps	January 2012
Lab Summary	04/05/2012, 01/03/2014, 01/10/2014
Lab Analysis	04/05/2012, 01/03/2014, 01/10/2014
Correspondence	Request and approval of remediation plan via email

## Request for Closure

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

Cliff Brunson, President of BBC International Inc.

02/13/2014

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1066 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised October 10, 2003

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

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

Release Notification and Corrective Action

NMLB1122338019

OPERATOR

Initial Report  Final Report

Name of Company OXY USA 192463	Contact Kelton Beard
Address 1502 W. Commerce Carlsbad, NM 88220	Telephone No. (O) 575-628-4100
Facility Name Righthand Canyon 35-7	Facility Type SWD

Surface Owner	Mineral Owner	Lease No. API: 3001534529
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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
	35	21S	24E					Eddy

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

NATURE OF RELEASE

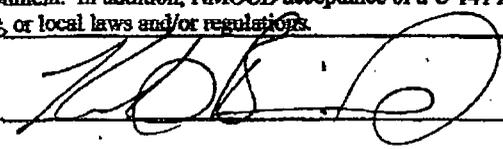
Type of Release Produced Water & Oil	Volume of Release 800 water/100 oil	Volume Recovered 140
Source of Release Gun Barrel Tank	Date and Hour of Occurrence	Date and Hour of Discovery 6-30-11 @ 4:00pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required.	If YES, To Whom? Mike Bratcher: NMOCD, Jim Amos-BLM	
By Whom? Kelton Beard (Oxy)	Date and Hour See above 7/11/11	7:15A
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.\*  
Tank Collapsed causing fluid to be released. Vacuum Truck was called to pick up remaining fluid.

Describe Area Affected and Cleanup Action Taken.\*  
Area affected was on and off of location into the pasture down the bottom of the slope north of the location. As per request by BLM and upon like approval by the state, the area off location on top just before the ravine will be washed with biodegradable soap. A catchment basin will be installed to gather all free liquid. The affected area on the road and on location will be cleaned up to required state levels or hard rock, whichever is met first.

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

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Kelton Beard	Signed By <u>Mike Bratcher</u> Approved by District Supervisor:	
Title: HES Specialist	Approval Date: AUG 11 2011	Expiration Date:
E-mail Address: kelton_beard@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7-6-11	Remediation per OCD Rules & Guidelines. <b>SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:</b>	

\* Attach Additional Sheets If Necessary

9/11/2011

RECEIVED  
JUL 11 2011  
NMOCD ARTESIA

2RP-828  
Leak 1

District I  
1625 N. French Dr., Hobbs, NM 88240  
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Revised October 10, 2003

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**Release Notification and Corrective Action**

**OPERATOR**  Initial Report  Final Report

Name of Company	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Righthand Canyon 35-7 SWD Battery	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	API No.30-015-34529(nearest well)

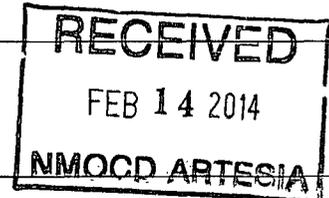
**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	35	21S	24E					Eddy County, NM

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

**NATURE OF RELEASE**

Type of Release	Produced water	Volume of Release	800 bbls	Volume Recovered	720 bbls
Source of Release	Bad service card on PLC caused power loss to pumps so tanks spilled over	Date and Hour of Occurrence	01/01/2014	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher-NMOCD, James Amos-BLM		
By Whom?	Jennifer Gilkey, BBC International	Date and Hour	01/02/2014 @ 1:58 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			



If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*  
A bad service card on the PLC caused a power loss to the pumps causing the tanks to spill 800 bbls of produced water onto the ground. 720 bbls of produced water were recovered via vacuum truck and the service card was replaced.

Describe Area Affected and Cleanup Action Taken.\*  
The affected area is approximately 60' x 100' on location. Remediation will be completed in accordance with a plan approved by NMOCD and the BLM.

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

Signature:	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Christopher Jones	Approved by District Supervisor:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Christopher_Jones@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 1/9/14	Phone: (575) 628-4121		

\* Attach Additional Sheets If Necessary

Leak 2

District I  
1625 N. French Dr., Hobbs, NM 88240  
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Revised October 10, 2003

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side of form

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Righthand Canyon 35-7	Facility Type	SWD
Surface Owner	Mineral Owner	API No. 30-015-34529	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	35	21S	24E					Eddy County, NM

Latitude N 32.43428° Longitude W 104.46379°

**NATURE OF RELEASE**

Type of Release	Produced water & Oil	Volume of Release	800 bbls water, 100 bbls oil	Volume Recovered	140 bbls
Source of Release	Gun Barrel Tank	Date and Hour of Occurrence		Date and Hour of Discovery	06/30/2011 @ 4:00 pm
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, Jim Amos- BLM		
By Whom?	Kelton Beard (Oxy)	Date and Hour	07/01/2011 @ 7:15 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

**RECEIVED**  
FEB 14 2014  
NMOCD ARTESIA

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*  
The collapse of a gun barrel tank caused 800 bbls of produced water and 100 bbls of oil to leak onto the ground. A vacuum truck picked up all free-standing fluids.

Describe Area Affected and Cleanup Action Taken.\*  
The area affected was on the location and into the pasture down the bottom of the slope North of the location. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 11/13/2012 and approved by James Amos of the BLM via email on 12/17/2012.

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

Signature:	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Christopher Jones	Approved by District Supervisor:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Christopher_Jones@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 2/12/14	Phone: (575) 628-4121		

\* Attach Additional Sheets If Necessary

Leak 1

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Revised October 10, 2003  
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side of form

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**OPERATOR**  Initial Report  Final Report

Name of Company	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Righthand Canyon 35-7 SWD Battery	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	
		API No. 30-015-34529 (nearest well)	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
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Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

Type of Release	Produced water	Volume of Release	800 bbls	Volume Recovered	720 bbls
Source of Release	Bad service card on PLC caused power loss to pumps so tanks spilled over	Date and Hour of Occurrence	01/01/2014	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher-NMOCD, James Amos-BLM		
By Whom?	Jennifer Gilkey, BBC International	Date and Hour	01/02/2014 @ 1:58 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

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Describe Area Affected and Cleanup Action Taken.\*  
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Printed Name: Christopher Jones	Approved by District Supervisor:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Christopher.Jones@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 2/12/14	Phone: (575) 628-4121		

\* Attach Additional Sheets If Necessary

Leak 2

# Righthand Canyon 35 Federal #7 SWD



Road

Lined Battery

U/L K, Section 35, T21S, R24E  
Eddy County, NM  
N 32.43428 W 104.46979

✕ SP1

✕ SP7

✕ SP2

✕ SP8

✕ SP6

✕ SP5

✕ SP3

✕ SP4

**BBC International, Inc.**

**Oxy**

Righthand Canyon 35 Fed #7 SWD

Date: 04/10/12

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2012

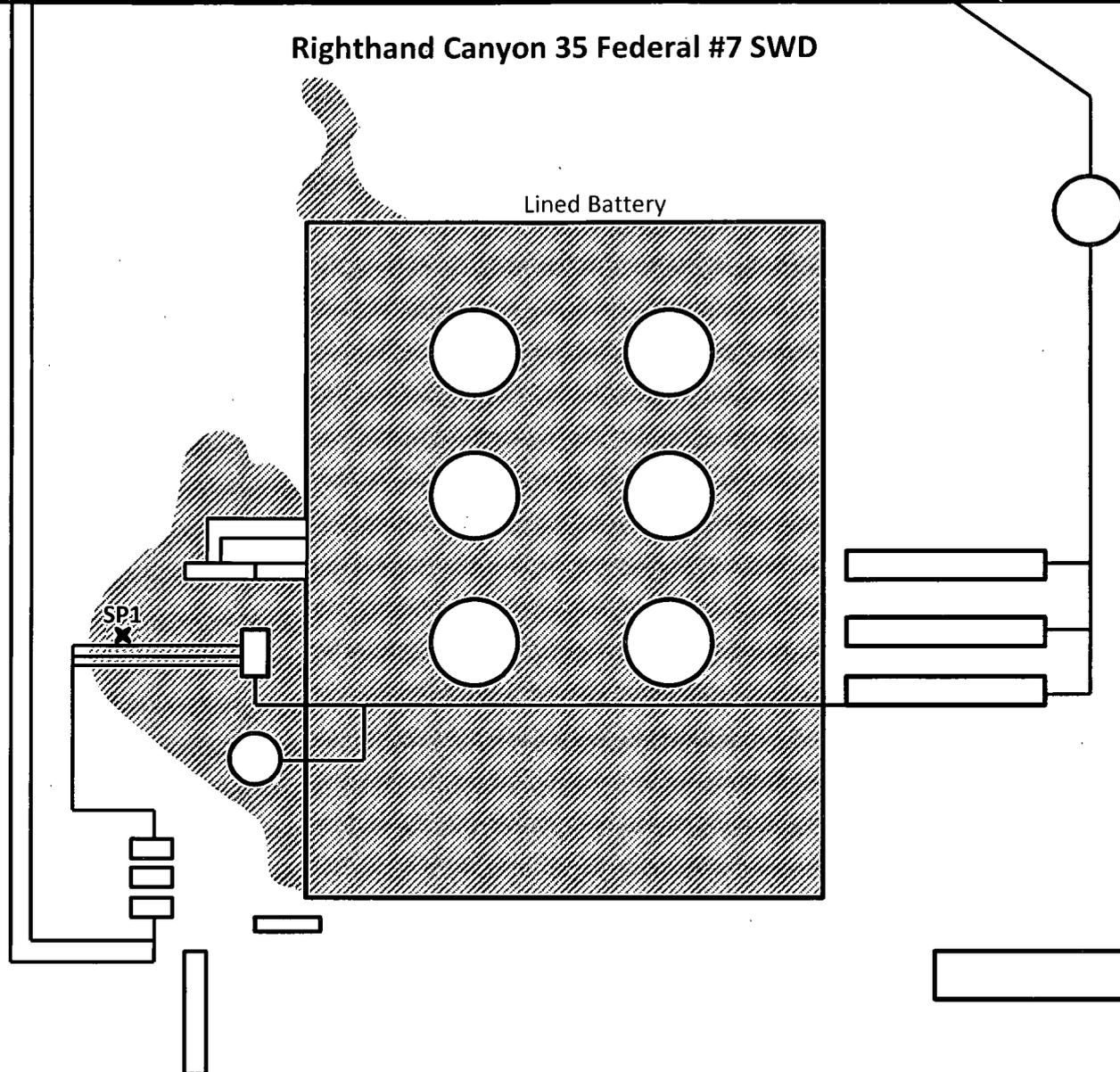
15K

Righthand Canyon 35 Federal #7 SWD



Road

Lined Battery



U/L K, Section 35, T21S, R24E  
Eddy County, NM  
N 32.43428 W 104.46979

**BBC International, Inc.**

**Oxy**

Righthand Canyon 35 Fed #7 SWD

Date: 01/01/2014

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2014

*2nd*

Righthand Canyon 35 Federal #7 SWD



Road

Lined Battery

U/L K, Section 35, T21S, R24E  
 Eddy County, NM  
 N 32.43428 W 104.46979

Confirmation sample  
 Sidewall 1

Confirmation sample  
 Bottom 1

Confirmation sample  
 Sidewall 2

Confirmation sample  
 Sidewall 4

Confirmation sample  
 Bottom 2

Confirmation sample  
 Sidewall 3

BBC International, Inc.

Oxy

Righthand Canyon 35 Fed #7 SWD

Date: 01/16/14

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2013

*Confirmation*



# Groundwater Plot

## Oxy Righthand Canyon 35-7 SWD Btry

County  
Eddy

Unit Letter  
K

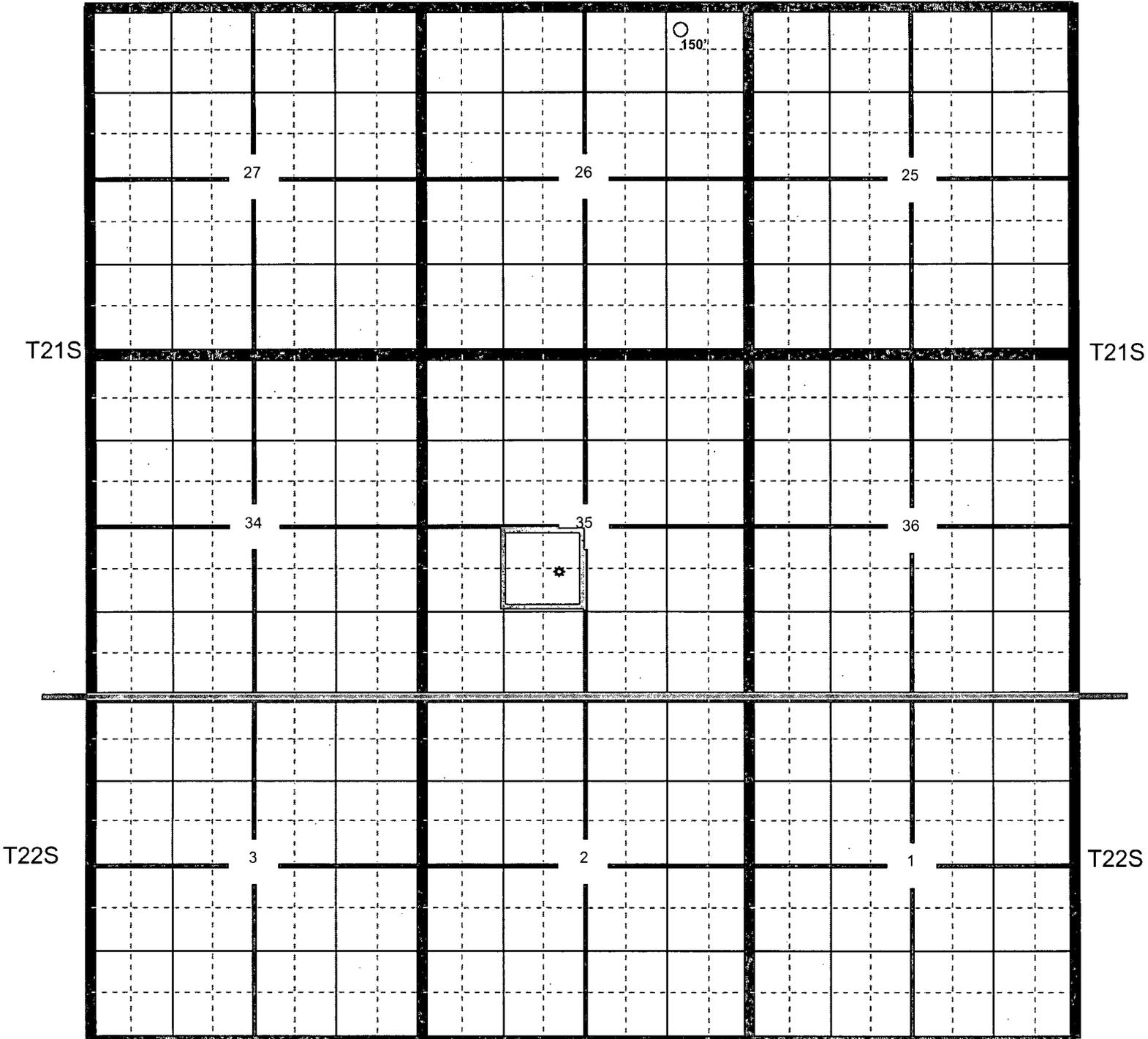
Section  
35

Township  
21S

Range  
24E

Trend Map 75'-80'

R24E



★ Location

○ OCD

○ USGS

○ SEO

● All Databases

*Both*

Oxy Righthand Canyon 35-7 SWD Btry

County Eddy      Unit Letter K      Section 35      Township 21S      Range 24E

Trend Map 75'-80'

1

2

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

3

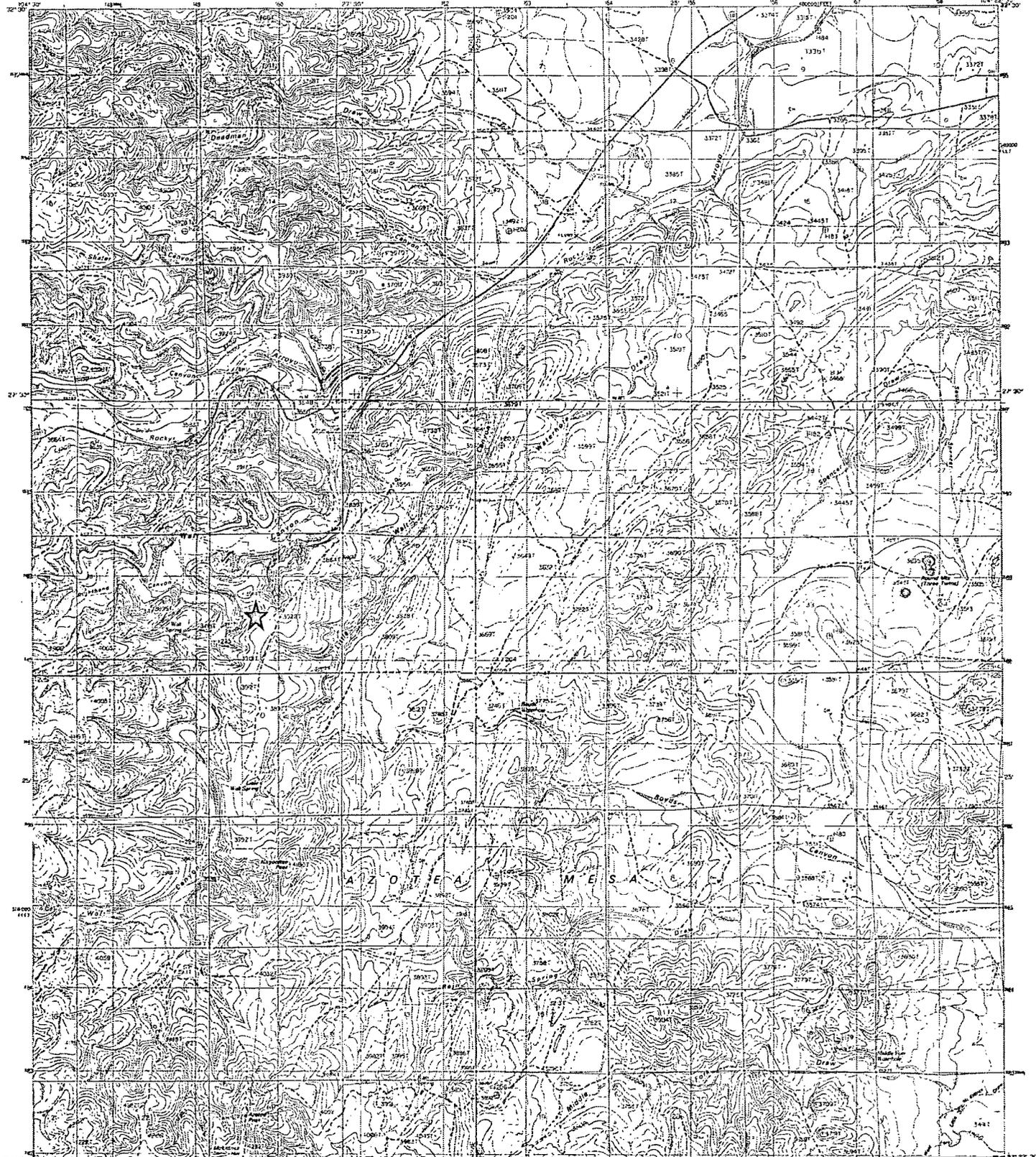
4

# Oxy

## Righthand Canyon 35-7 SWD Battery

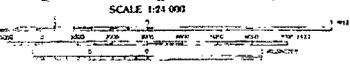
AZOTEA PEAK QUADRANGLE  
NEW MEXICO-EDDY CO.  
7.5 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



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CONTROLLED BY THE UNITED STATES GEOLOGICAL SURVEY  
FIELD CHECKED BY THE UNITED STATES GEOLOGICAL SURVEY  
THIS MAP IS THE PROPERTY OF THE UNITED STATES GEOLOGICAL SURVEY  
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AT THE ADDRESS LISTED BELOW OR BY TELEPHONE AT THE NUMBER LISTED BELOW  
TELEPHONE (303) 467-1000  
FEDERAL AND STATE PRINTING OFFICES OBSOLETE AND DISCONTINUED

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



1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10

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

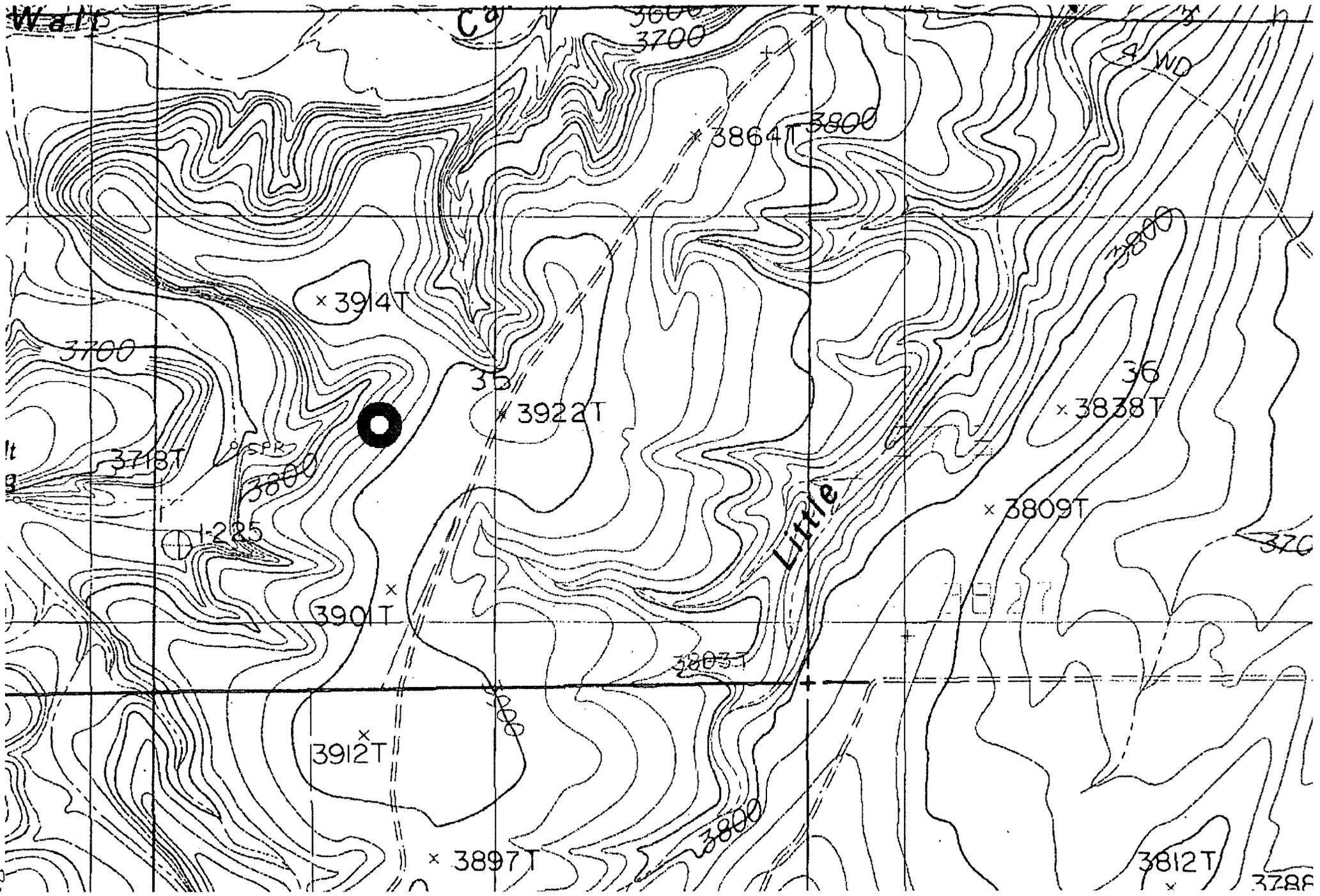
THIS MAP FORMERLY ATEC NATIONAL MAP UTILITY LEGEND  
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225  
OR WASHINGTON, VIRGINIA 22202

AZOTEA PEAK, NEW MEXICO  
PROVISIONAL EDITION 1985  
1:24,000 7.5 QUADRANGLE SERIES  
1104-04-77-024

Both

# Oxy

## Righthand Canyon 35-7 SWD Battery



**Laboratory Analytical Results Summary  
Right Hand Canyon 35-7 SWD**

		Sample	SP1 @ Surface	SP1 @ 1 ft	SP2 @ Surface	SP2 @ 1 ft	SP3 @ Surface	SP3 @ 1 ft	SP4 @ Surface	SP4 @ 1 ft
Analyte	Method	Date	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<b>0.056</b>
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
<b>Chloride</b>	SM4500CI-B		<b>256</b>	<16.0	<b>576</b>	<b>80.0</b>	<16.0	<b>32.0</b>	<b>96.0</b>	<b>48.0</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<50.0	<10.0	<50.0	<10.0	<10.0	<10
<b>DRO</b>	TPH 8015M		<b>556</b>	<b>748</b>	<b>8110</b>	<b>218</b>	<b>8390</b>	<b>863</b>	<b>2360</b>	<b>1690</b>

		Sample	SP5 @ Surface	SP5 @ 1 ft	SP6 @ Surface	SP6 @ 1 ft	SP7 @ Surface	SP7 @ 1 ft	SP8 @ Surface	SP8 @ 1 ft
Analyte	Method	Date	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<b>0.167</b>	<0.150
<b>Chloride</b>	SM4500CI-B		<b>560.0</b>	<b>80.0</b>	<b>400</b>	<b>144</b>	<16.0	<16.0	<b>192</b>	<b>32.0</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<b>60.9</b>	<b>14.1</b>	<10.0	<10.0	<b>61.0</b>	<b>11.3</b>
<b>DRO</b>	TPH 8015M		<b>2390</b>	<b>1770</b>	<b>20300</b>	<b>3310</b>	<b>209</b>	<10.0	<b>40600</b>	<b>522</b>

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**Laboratory Analytical Results Summary  
Righthand Canyon 35-7 SWD Battery**

		Sample	SP1 @ SURFACE	SP1 @ 6"	SP1 @ 1'
Analyte	Method	Date	1/3/14	1/3/14	1/3/14
			mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>880</b>	<b>80</b>	<b>48</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>244</b>	<b>29.5</b>	<b>24.7</b>

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**Laboratory Analytical Results Summary  
Righthand Canyon 35-7**

Confirmation		Sample	SIDEWALL 1	SIDEWALL 2	SIDEWALL 3	SIDEWALL 4
Analyte	Method	Date	1/10/14	1/10/14	1/10/14	1/10/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>240</b>	<b>224</b>	<16.0	<b>240</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>903</b>	<b>1240</b>	<b>16.7</b>	<b>525</b>

		Sample	BOTTOM 1	BOTTOM 2
Analyte	Method	Date	1/10/14	1/10/14
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>224</b>	<b>144</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>836</b>	<b>280</b>

*Confirmation*

April 12, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RIGHT HAND CANYON 35-7 SWD

Enclosed are the results of analyses for samples received by the laboratory on 04/09/12 10:05.

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: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 1 @ SURFACE (H200800-01)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

*Surrogate: 4-Bromofluorobenzene (PIL) 103 % 64.4-134*

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>256</b>	16.0	04/11/2012	ND	400	100	400	3.92		

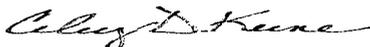
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/11/2012	ND	197	98.7	200	3.96		
<b>DRO &gt;C10-C28</b>	<b>556</b>	10.0	04/11/2012	ND	221	110	200	12.5		

*Surrogate: 1-Chlorooctane 108 % 55.5-154*
*Surrogate: 1-Chlorooctadecane 127 % 57.6-158*

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: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 1 @ 1 FT (H200800-02)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

*Surrogate: 4-Bromofluorobenzene (PIL) 110 % 64.4-134*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/11/2012	ND	197	98.7	200	3.96		
<b>DRO &gt;C10-C28</b>	<b>748</b>	10.0	04/11/2012	ND	221	110	200	12.5		

*Surrogate: 1-Chlorooctane 110 % 55.5-154*
*Surrogate: 1-Chlorooctadecane 139 % 57.6-158*

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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: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 2 @ SURFACE (H200800-03)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 64.4-134

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>576</b>	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<50.0	50.0	04/12/2012	ND	197	98.7	200	3.96			
<b>DRO &gt;C10-C28</b>	<b>8110</b>	50.0	04/12/2012	ND	221	110	200	12.5			

Surrogate: 1-Chlorooctane 123 % 55.5-154

Surrogate: 1-Chlorooctadecane 325 % 57.6-158

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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: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 2 @ 1 FT (H200800-04)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 64.4-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>80.0</b>	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/11/2012	ND	197	98.7	200	3.96		
<b>DRO &gt;C10-C28</b>	<b>218</b>	10.0	04/11/2012	ND	221	110	200	12.5		

Surrogate: 1-Chlorooctane 114 % 55.5-154

Surrogate: 1-Chlorooctadecane 147 % 57.6-158

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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: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 3 @ SURFACE (H200800-05)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

*Surrogate: 4-Bromofluorobenzene (PIL) 100 % 64.4-134*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/11/2012	ND	400	100	400	3.92		

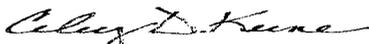
TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<50.0	50.0	04/12/2012	ND	197	98.7	200	3.96			
<b>DRO &gt;C10-C28</b>	<b>8390</b>	50.0	04/12/2012	ND	221	110	200	12.5			

*Surrogate: 1-Chlorooctane 130 % 55.5-154*
*Surrogate: 1-Chlorooctadecane 329 % 57.6-158*

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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: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 3 @ 1 FT (H200800-06)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

*Surrogate: 4-Bromofluorobenzene (PIL) 101 % 64.4-134*

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	04/11/2012	ND	400	100	400	3.92		

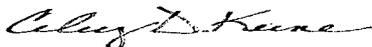
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/11/2012	ND	197	98.7	200	3.96		
<b>DRO &gt;C10-C28</b>	<b>863</b>	10.0	04/11/2012	ND	221	110	200	12.5		

*Surrogate: 1-Chlorooctane 120 % 55.5-154*
*Surrogate: 1-Chlorooctadecane 132 % 57.6-158*

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: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 4 @ SURFACE (H200800-07)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 64.4-134

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>96.0</b>	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/11/2012	ND	197	98.7	200	3.96		
<b>DRO &gt;C10-C28</b>	<b>2360</b>	10.0	04/11/2012	ND	221	110	200	12.5		

Surrogate: 1-Chlorooctane 118 % 55.5-154

Surrogate: 1-Chlorooctadecane 129 % 57.6-158

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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: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 4 @ 1 FT (H200800-08)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
<b>Ethylbenzene*</b>	<b>0.056</b>	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PIL) 122 % 64.4-134

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>48.0</b>	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/11/2012	ND	197	98.7	200	3.96		
<b>DRO &gt;C10-C28</b>	<b>1690</b>	10.0	04/11/2012	ND	221	110	200	12.5		

Surrogate: 1-Chlorooctane 116 % 55.5-154

Surrogate: 1-Chlorooctadecane 126 % 57.6-158

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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: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 5 @ SURFACE (H200800-09)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

*Surrogate: 4-Bromofluorobenzene (PIL) 101 % 64.4-134*

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>560</b>	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/11/2012	ND	197	98.7	200	3.96		
<b>DRO &gt;C10-C28</b>	<b>2390</b>	10.0	04/11/2012	ND	221	110	200	12.5		

*Surrogate: 1-Chlorooctane 115 % 55.5-154*
*Surrogate: 1-Chlorooctadecane 128 % 57.6-158*

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**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 5 @ 1 FT (H200800-10)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

*Surrogate: 4-Bromofluorobenzene (PIL) 102 % 64.4-134*

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>80.0</b>	16.0	04/11/2012	ND	400	100	400	3.92		

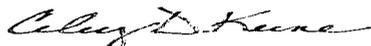
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/11/2012	ND	197	98.7	200	3.96		
<b>DRO &gt;C10-C28</b>	<b>1770</b>	10.0	04/11/2012	ND	221	110	200	12.5		

*Surrogate: 1-Chlorooctane 120 % 55.5-154*
*Surrogate: 1-Chlorooctadecane 126 % 57.6-158*

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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: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 6 @ SURFACE (H200800-11)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72		

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 64.4-134

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>400</b>	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>60.9</b>	50.0	04/12/2012	ND	197	98.7	200	3.96			
<b>DRO &gt;C10-C28</b>	<b>20300</b>	50.0	04/12/2012	ND	221	110	200	12.5			

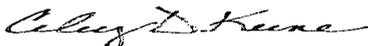
Surrogate: 1-Chlorooctane 130 % 55.5-154

Surrogate: 1-Chlorooctadecane 331 % 57.6-158

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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: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 6 @ 1 FT (H200800-12)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72		

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 64.4-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>144</b>	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>14.1</b>	10.0	04/11/2012	ND	197	98.7	200	3.96		
<b>DRO &gt;C10-C28</b>	<b>3310</b>	10.0	04/11/2012	ND	221	110	200	12.5		

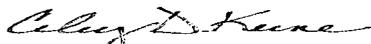
Surrogate: 1-Chlorooctane 118 % 55.5-154

Surrogate: 1-Chlorooctadecane 119 % 57.6-158

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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: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 7 @ SURFACE (H200800-13)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72		

*Surrogate: 4-Bromofluorobenzene (PIL) 103 % 64.4-134*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/11/2012	ND	400	100	400	3.92		

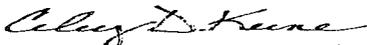
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/12/2012	ND	207	103	200	4.03		
<b>DRO &gt;C10-C28</b>	<b>209</b>	10.0	04/12/2012	ND	234	117	200	15.1		

*Surrogate: 1-Chlorooctane 106 % 55.5-154*
*Surrogate: 1-Chlorooctadecane 133 % 57.6-158*

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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: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 7 @ 1 FT (H200800-14)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72		

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/12/2012	ND	207	103	200	4.03		
DRO >C10-C28	<10.0	10.0	04/12/2012	ND	234	117	200	15.1		

Surrogate: 1-Chlorooctane 115 % 55.5-154

Surrogate: 1-Chlorooctadecane 143 % 57.6-158

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 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 8 @ SURFACE (H200800-15)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
<b>Total Xylenes*</b>	<b>0.167</b>	<b>0.150</b>	<b>04/12/2012</b>	<b>ND</b>	<b>7.11</b>	<b>118</b>	<b>6.00</b>	<b>5.72</b>		

*Surrogate: 4-Bromofluorobenzene (PIL) 103 % 64.4-134*

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>192</b>	<b>16.0</b>	<b>04/11/2012</b>	<b>ND</b>	<b>400</b>	<b>100</b>	<b>400</b>	<b>3.92</b>		

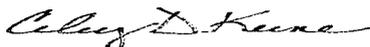
TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>61.0</b>	<b>50.0</b>	<b>04/12/2012</b>	<b>ND</b>	<b>207</b>	<b>103</b>	<b>200</b>	<b>4.03</b>			
<b>DRO &gt;C10-C28</b>	<b>40600</b>	<b>50.0</b>	<b>04/12/2012</b>	<b>ND</b>	<b>234</b>	<b>117</b>	<b>200</b>	<b>15.1</b>			

*Surrogate: 1-Chlorooctane 102 % 55.5-154*
*Surrogate: 1-Chlorooctadecane 613 % 57.6-158*

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 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 8 @ 1 FT (H200800-16)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72		

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 64.4-134

Chloride, SM4500CI-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	04/11/2012	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	11.3	10.0	04/12/2012	ND	207	103	200	4.03		
DRO >C10-C28	522	10.0	04/12/2012	ND	234	117	200	15.1		

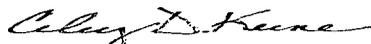
Surrogate: 1-Chlorooctane 103 % 55.5-154

Surrogate: 1-Chlorooctadecane 128 % 57.6-158

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

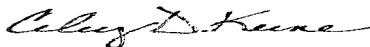
- S-06            The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*              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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---

Celest 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>		<b>ANALYSIS REQUEST</b>																							
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: <i>Oxy</i>		City:																									
Project Name: <i>Right hand Canyon 35-7 SWD</i>		State: Zip:																									
Project Location: <i>Carlsbad, NM</i>		Phone #:																									
Sampler Name: <i>Jordan Wood</i>		Fax #:																									
FOR LAB USE ONLY																											
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													
<i>H200812</i>															<i>C1-</i>	<i>TPH&amp;OIL</i>	<i>BTEX</i>										
<i>1</i>	<i>SP 1 Surface</i>	<i>9</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>9-5-11</i>	<i>10:51</i>	<i>X</i>	<i>X</i>	<i>X</i>										
<i>2</i>	<i>SP 1 @ 1ft</i>	<i>9</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>"</i>	<i>11:00</i>	<i>X</i>	<i>X</i>	<i>X</i>										
<i>3</i>	<i>SP 2 Surface</i>	<i>9</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>"</i>	<i>11:23</i>	<i>X</i>	<i>X</i>	<i>X</i>										
<i>4</i>	<i>SP 2 @ 1ft</i>	<i>9</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>"</i>	<i>11:33</i>	<i>X</i>	<i>X</i>	<i>X</i>										
<i>5</i>	<i>SP 3 Surface</i>	<i>9</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>"</i>	<i>12:36</i>	<i>X</i>	<i>X</i>	<i>X</i>										
<i>6</i>	<i>SP 3 @ 1ft</i>	<i>9</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>"</i>	<i>12:50</i>	<i>X</i>	<i>X</i>	<i>X</i>										
<i>7</i>	<i>SP 4 Surface</i>	<i>9</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>"</i>	<i>11:5</i>	<i>X</i>	<i>X</i>	<i>X</i>										
<i>8</i>	<i>SP 4 @ 1ft</i>	<i>9</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>"</i>	<i>12:9</i>	<i>X</i>	<i>X</i>	<i>X</i>										
<i>9</i>	<i>SP 5 Surface</i>	<i>9</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>"</i>	<i>1:40</i>	<i>X</i>	<i>X</i>	<i>X</i>										
<i>10</i>	<i>SP 5 @ 1ft</i>	<i>9</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>"</i>	<i>2:01</i>	<i>X</i>	<i>X</i>	<i>X</i>										

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Relinquished By: <i>Jordan Wood</i>	Date: <i>9-9-11</i>	Received By: <i>Ken Sorenson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>10:40</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>Ken Sorenson</i>	Date: <i>9-9-11</i>	Received By: <i>Jodi Jensen</i>	REMARKS: <i>EMAIL ALL</i>	
	Time: <i>10:05 AM</i>			
Delivered By: (Circle One)	Sampler - UPS - Bus - Other: <i>Bus</i>	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <i>JH</i>	

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

*#26*



January 13, 2014

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

RE: RIGHT HAND CANYON 35

Enclosed are the results of analyses for samples received by the laboratory on 01/07/14 8:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/07/2014	Sampling Date:	01/03/2014
Reported:	01/13/2014	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

**Sample ID: SP 1 @ SURFACE (H400039-01)**

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	01/09/2014	ND	1.86	93.1	2.00	2.40		
Toluene*	<0.050	0.050	01/09/2014	ND	1.85	92.5	2.00	2.47		
Ethylbenzene*	<0.050	0.050	01/09/2014	ND	1.90	94.8	2.00	2.46		
Total Xylenes*	<0.150	0.150	01/09/2014	ND	5.64	93.9	6.00	1.54		
Total BTEX	<0.300	0.300	01/09/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 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	<b>880</b>	16.0	01/09/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/08/2014	ND	175	87.7	200	2.38		
DRO >C10-C28	<b>244</b>	10.0	01/08/2014	ND	180	90.1	200	1.19		

Surrogate: 1-Chlorooctane 83.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.3 % 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:	01/07/2014	Sampling Date:	01/03/2014
Reported:	01/13/2014	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

**Sample ID: SP 1 @ 6" (H400039-02)**

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	01/09/2014	ND	1.92	96.1	2.00	2.06		
Toluene*	<0.050	0.050	01/09/2014	ND	1.89	94.6	2.00	2.20		
Ethylbenzene*	<0.050	0.050	01/09/2014	ND	1.93	96.4	2.00	2.32		
Total Xylenes*	<0.150	0.150	01/09/2014	ND	5.63	93.8	6.00	2.42		
Total BTEX	<0.300	0.300	01/09/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 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	01/09/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/08/2014	ND	175	87.7	200	2.38		
DRO >C10-C28	29.5	10.0	01/08/2014	ND	180	90.1	200	1.19		

Surrogate: 1-Chlorooctane 90.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.0 % 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:	01/07/2014	Sampling Date:	01/03/2014
Reported:	01/13/2014	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

**Sample ID: SP 1 @ 1' (H400039-03)**

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	01/09/2014	ND	1.92	96.1	2.00	2.06		
Toluene*	<0.050	0.050	01/09/2014	ND	1.89	94.6	2.00	2.20		
Ethylbenzene*	<0.050	0.050	01/09/2014	ND	1.93	96.4	2.00	2.32		
Total Xylenes*	<0.150	0.150	01/09/2014	ND	5.63	93.8	6.00	2.42		
Total BTEX	<0.300	0.300	01/09/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 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	
Chloride	<b>48.0</b>	16.0	01/09/2014	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/08/2014	ND	175	87.7	200	2.38		
DRO >C10-C28	<b>24.7</b>	10.0	01/08/2014	ND	180	90.1	200	1.19		

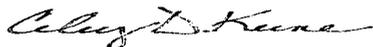
Surrogate: 1-Chlorooctane 83.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.9 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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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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Cardinal Laboratories

\*=Accredited Analyte

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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>		<b>ANALYSIS REQUEST</b>																					
Project Manager: Cliff Brunson		P.O. #:																							
Address: P.O. Box 805		Company:																							
City: Hobbs State: NM Zip: 88241		Attn: <i>SAME</i>																							
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:																							
Project #: Project Owner: <i>OKY</i>		City:																							
Project Name: <i>Right Hand Canyon 350</i>		State: Zip:																							
Project Location: <i>Indian Basin</i>		Phone #:																							
Sampler Name: <i>Roger Hernandez</i>		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:	DATE	TIME													
<i>H400039</i>													<i>TPH</i>	<i>BTEX</i>	<i>CL-</i>										
<i>1</i>	<i>SP10 SURFACE</i>	<i>G</i>	<i>1</i>						<input checked="" type="checkbox"/>		<i>1.3.14</i>	<i>1:00</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
<i>2</i>	<i>@ 6"</i>	<i>G</i>	<i>1</i>						<input checked="" type="checkbox"/>		<i>1.3.14</i>	<i>1:10</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
<i>3</i>	<i>@ 1'</i>	<i>G</i>	<i>1</i>						<input checked="" type="checkbox"/>		<i>1.3.14</i>	<i>1:15</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profit 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>Roger Hernandez</i>	Date: <i>1.7.14</i> Time: <i>8:10</i>	Received By: <i>Ramon Montoya</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>Ramon Montoya</i>	Date: <i>1/7/14</i> Time: <i>8:15</i>	Received By: <i>Jodi Henson</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>2.20</i>	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: (Initials) <i>JH</i>	REMARKS:	

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

*# 54*



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

---

January 14, 2014

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

RE: RIGHT HAND CANYON 35

Enclosed are the results of analyses for samples received by the laboratory on 01/13/14 16:15.

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

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:	01/13/2014	Sampling Date:	01/10/2014
Reported:	01/14/2014	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

**Sample ID: SIDEWALL 1 (H400109-01)**

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	01/14/2014	ND	1.97	98.7	2.00	5.22		
Toluene*	<0.050	0.050	01/14/2014	ND	1.91	95.6	2.00	6.25		
Ethylbenzene*	<0.050	0.050	01/14/2014	ND	1.95	97.7	2.00	5.02		
Total Xylenes*	<0.150	0.150	01/14/2014	ND	5.73	95.4	6.00	4.47		
Total BTEX	<0.300	0.300	01/14/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 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	240	16.0	01/14/2014	ND	432	108	400	7.14		

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	01/14/2014	ND	209	105	200	6.89		
DRO >C10-C28	903	10.0	01/14/2014	ND	233	116	200	1.72		

Surrogate: 1-Chlorooctane 75.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.2 % 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:	01/13/2014	Sampling Date:	01/10/2014
Reported:	01/14/2014	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

**Sample ID: SIDEWALL 2 (H400109-02)**

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	01/14/2014	ND	1.97	98.7	2.00	5.22		
Toluene*	<0.050	0.050	01/14/2014	ND	1.91	95.6	2.00	6.25		
Ethylbenzene*	<0.050	0.050	01/14/2014	ND	1.95	97.7	2.00	5.02		
Total Xylenes*	<0.150	0.150	01/14/2014	ND	5.73	95.4	6.00	4.47		
Total BTEX	<0.300	0.300	01/14/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 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	
Chloride	224	16.0	01/14/2014	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: ms							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	01/14/2014	ND	209	105	200	6.89			
DRO >C10-C28	1240	10.0	01/14/2014	ND	233	116	200	1.72			

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 158 % 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:	01/13/2014	Sampling Date:	01/10/2014
Reported:	01/14/2014	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

**Sample ID: SIDEWALL 3 (H400109-03)**

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	01/14/2014	ND	1.97	98.7	2.00	5.22		
Toluene*	<0.050	0.050	01/14/2014	ND	1.91	95.6	2.00	6.25		
Ethylbenzene*	<0.050	0.050	01/14/2014	ND	1.95	97.7	2.00	5.02		
Total Xylenes*	<0.150	0.150	01/14/2014	ND	5.73	95.4	6.00	4.47		
Total BTEX	<0.300	0.300	01/14/2014	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	<16.0	16.0	01/14/2014	ND	432	108	400	7.14		

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	01/14/2014	ND	209	105	200	6.89		
<b>DRO &gt;C10-C28</b>	<b>16.7</b>	10.0	01/14/2014	ND	233	116	200	1.72		

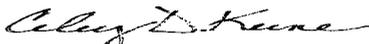
Surrogate: 1-Chlorooctane 88.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 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:	01/13/2014	Sampling Date:	01/10/2014
Reported:	01/14/2014	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

**Sample ID: SIDEWALL 4 (H400109-04)**

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	01/14/2014	ND	1.97	98.7	2.00	5.22		
Toluene*	<0.050	0.050	01/14/2014	ND	1.91	95.6	2.00	6.25		
Ethylbenzene*	<0.050	0.050	01/14/2014	ND	1.95	97.7	2.00	5.02		
Total Xylenes*	<0.150	0.150	01/14/2014	ND	5.73	95.4	6.00	4.47		
Total BTEX	<0.300	0.300	01/14/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 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	
Chloride	240	16.0	01/14/2014	ND	432	108	400	7.14		

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	01/14/2014	ND	209	105	200	6.89		
DRO >C10-C28	525	10.0	01/14/2014	ND	233	116	200	1.72		

Surrogate: 1-Chlorooctane 86.4 % 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:	01/13/2014	Sampling Date:	01/10/2014
Reported:	01/14/2014	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

**Sample ID: BOTTOM 1 (H400109-05)**

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	01/14/2014	ND	1.97	98.7	2.00	5.22		
Toluene*	<0.050	0.050	01/14/2014	ND	1.91	95.6	2.00	6.25		
Ethylbenzene*	<0.050	0.050	01/14/2014	ND	1.95	97.7	2.00	5.02		
Total Xylenes*	<0.150	0.150	01/14/2014	ND	5.73	95.4	6.00	4.47		
Total BTEX	<0.300	0.300	01/14/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 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	
Chloride	224	16.0	01/14/2014	ND	432	108	400	7.14		

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	01/14/2014	ND	209	105	200	6.89		
DRO >C10-C28	836	10.0	01/14/2014	ND	233	116	200	1.72		

Surrogate: 1-Chlorooctane 93.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 151 % 63.6-154

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Celest 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:	01/13/2014	Sampling Date:	01/10/2014
Reported:	01/14/2014	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

**Sample ID: BOTTOM 2 (H400109-06)**

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	01/14/2014	ND	1.97	98.7	2.00	5.22		
Toluene*	<0.050	0.050	01/14/2014	ND	1.91	95.6	2.00	6.25		
Ethylbenzene*	<0.050	0.050	01/14/2014	ND	1.95	97.7	2.00	5.02		
Total Xylenes*	<0.150	0.150	01/14/2014	ND	5.73	95.4	6.00	4.47		
Total BTEX	<0.300	0.300	01/14/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 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	144	16.0	01/14/2014	ND	432	108	400	7.14		

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	01/14/2014	ND	209	105	200	6.89		
DRO >C10-C28	280	10.0	01/14/2014	ND	233	116	200	1.72		

Surrogate: 1-Chlorooctane 97.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

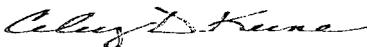
- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*             Samples not received at proper temperature 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



## Kathy Purvis

---

**From:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>  
**Sent:** Tuesday, November 13, 2012 2:19 PM  
**To:** Cliff P. Brunson  
**Cc:** Chris Jones; Ken Swinney; Kathy Purvis; Jennifer Gilkey  
**Subject:** RE: Oxy-Righthand Canyon 35 Federal #7 SWD

Reference: OXY USA \* Right Hand Canyon 35-7 \* 30-015-34529 \* K-35-21s-24e \* Eddy County, New Mexico  
OCD Tracking Number: 2RP-828 \* Date of release: 6/30/11

Cliff,

Your proposal for remediation of the above referenced release is approved with the following conditions/stipulations:

- Notify OCD 48 hours prior to commencement of remedial operations.
- Notify OCD 48 hours prior to obtaining samples where the analyses are to be submitted to OCD.
- Obtain representative confirmation samples of bottom and sidewalls of excavation.
- Obtain approval prior to backfilling excavations.
- Submit a closure report and Form C-141 marked Final Report upon satisfactory completion of project.
- Approval by BLM or any other regulatory authority as may be applicable.

As discussed, it is OCD's understanding that the areas identified as SP7 and SP8 are situated on the access road. OXY indicates that it is not practicable to excavate in these areas due to the steep grade of the road.

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, or 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:** Sunday, September 23, 2012 5:21 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Chris Jones; Ken Swinney; Kathy Purvis; Jennifer Gilkey  
**Subject:** Oxy-Righthand Canyon 35 Federal #7 SWD

Mike,

This e-mail is to confirm our discussion on September 5, 2012 concerning the remediation plan for the release that occurred at the Oxy Righthand Canyon 35 Federal #7 SWD. As agreed, Oxy will excavate 1 foot across the spill area except in the areas covered by SP4 - SP6 which will be excavated to a depth of 2 feet as depicted on the attached site diagram. In addition, the impacted soil inside the battery containment will be removed off the liner and replaced with clean material. The excavation will then be backfilled with clean soil. The depth to groundwater in this area is approximately 75 to 80 feet.

I have attached the site drawing and the summary of the laboratory data we reviewed during our discussion for your files. If you would please reply back via e-mail with your concurrence of this remediation plan, it would be greatly appreciated.

Oxy and I thank you for your assistance in handling this matter.

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:** Amos, James <jamos@blm.gov>  
**Sent:** Monday, December 17, 2012 11:13 AM  
**To:** Cliff P. Brunson  
**Cc:** Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** Re: Oxy Righthand Canyon 35 Federal #7 SWD - remediation plan

Everyone,

Looking at the numbers, it appears that the delineation reached failure. Excavation of the site will most likely achieve the same. I would like to excavate to failure, remove as much material as possible. Let the excavation air out for a little while prior to closure. With the low chloride level we may want to treat the remaining TPH with Micro Blaze or other products. Keep me in the loop as far as start date and when the excavation is completed.

Thanks,

J. Amos

On Sun, Dec 16, 2012 at 4:46 PM, Cliff P. Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)> wrote:  
Jim,

This message is to request the BLM's approval for Oxy's proposed remediation plan that is attached. I have included the NMOCD's approval and a site diagram that depicts the sample points, a lab data summary table, and the original lab data. Oxy proposed to excavate the impacted soil to depth of 1 foot in the areas that are represented by SP1, SP2, SP3, SP7, and SP8 (SP7 and SP8 are in the road downhill from the battery). In the area that is represented by SP4, SP5, and SP6, the soil will be excavated to a depth of 2 feet. In addition, the impacted gravel inside the lined battery will be removed and replaced. All excavated areas will be backfilled with clean appropriate material.

If you would please respond back via e-mail with your approval, it would be greatly appreciated. If you have any questions, please let us know.

Thank you,

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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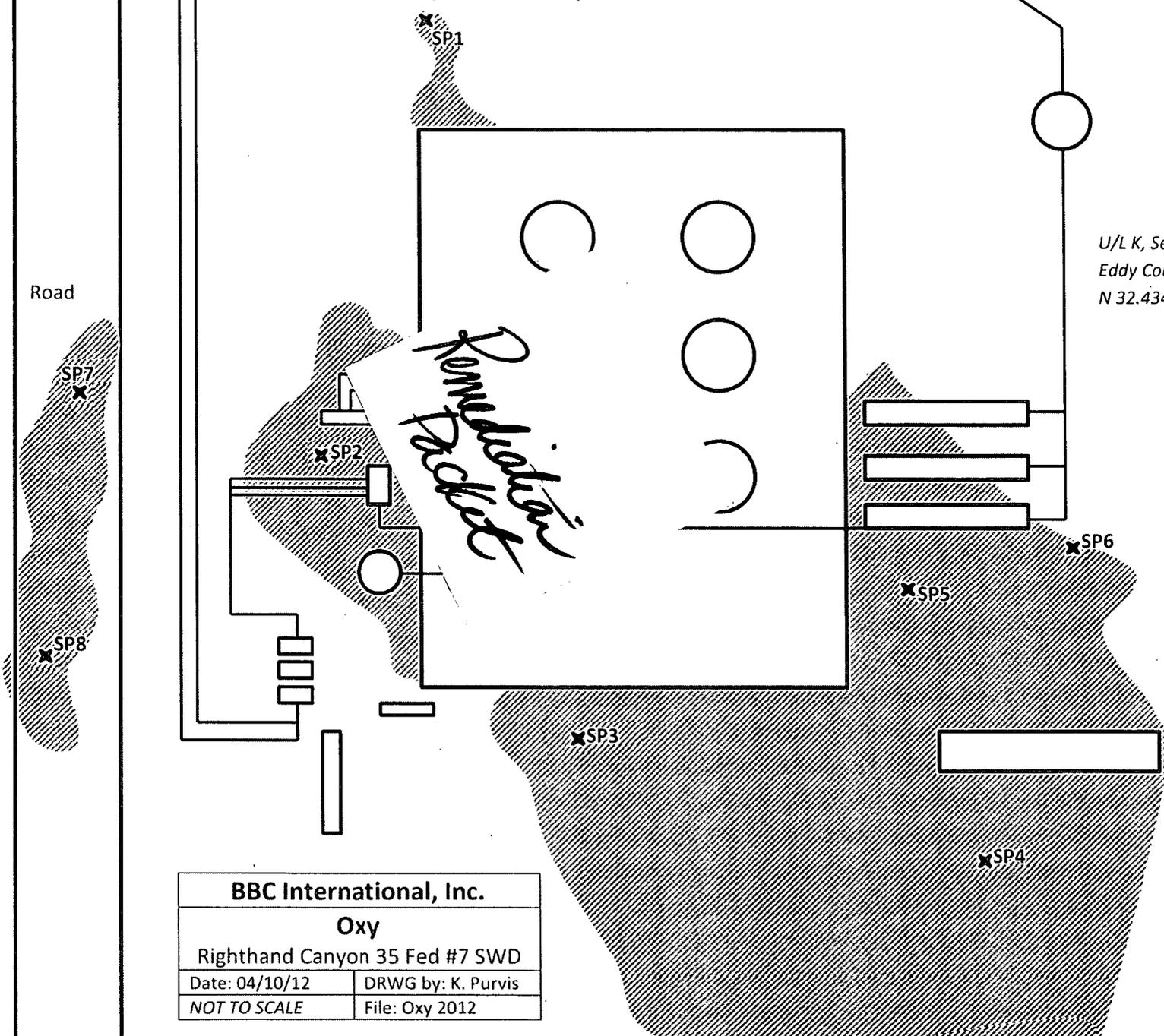
\*\*\*\*\*

Righthand Canyon 35 Federal #7 SWD



U/L K, Section 35, T21S, R24E  
Eddy County, NM  
N 32.43428 W 104.46979

Road



<b>BBC International, Inc.</b>	
<b>Oxy</b>	
Righthand Canyon 35 Fed #7 SWD	
Date: 04/10/12	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2012



# Groundwater Plot

## Oxy Righthand Canyon 35 Fed #7

County  
Eddy

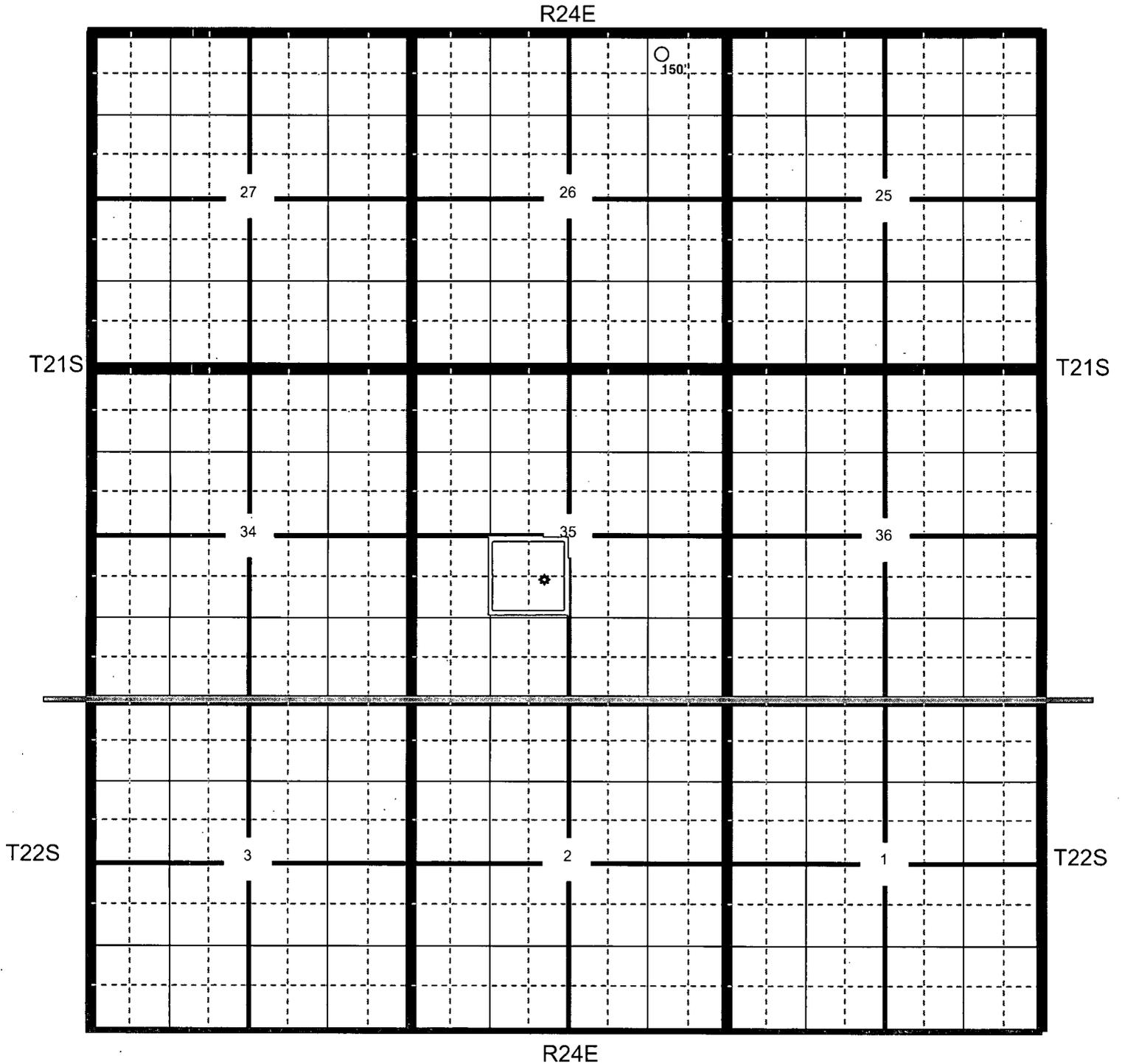
Unit Letter  
K

Section  
35

Township  
21S

Range  
24E

Trend Map 75'-80'



★ Location      ○ OCD      ○ USGS      ○ SEO      ● All Databases



Section Quarters

Oxy Righthand Canyon 35 Fed #7

<i>County</i> Eddy	<i>Unit Letter</i> K	<i>Section</i> 35	<i>Township</i> 21S	<i>Range</i> 24E
-----------------------	-------------------------	----------------------	------------------------	---------------------

Trend Map 75'-80'

1

2

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

3

4

\* Location      ○ OCD      ○ USGS      ○ SEO      ● All Databases

**Laboratory Analytical Results Summary  
Right Hand Canyon 35-7 SWD**

		Sample	SP1 @ Surface	SP1 @ 1 ft	SP2 @ Surface	SP2 @ 1 ft	SP3 @ Surface	SP3 @ 1 ft	SP4 @ Surface	SP4 @ 1 ft
Analyte	Method	Date	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<b>0.056</b>
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
<b>Chloride</b>	SM4500Cl-B		<b>256</b>	<16.0	<b>576</b>	<b>80.0</b>	<16.0	<b>32.0</b>	<b>96.0</b>	<b>48.0</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<50.0	<10.0	<50.0	<10.0	<10.0	<10
<b>DRO</b>	TPH 8015M		<b>556</b>	<b>748</b>	<b>8110</b>	<b>218</b>	<b>8390</b>	<b>863</b>	<b>2360</b>	<b>1690</b>

		Sample	SP5 @ Surface	SP5 @ 1 ft	SP6 @ Surface	SP6 @ 1 ft	SP7 @ Surface	SP7 @ 1 ft	SP8 @ Surface	SP8 @ 1 ft
Analyte	Method	Date	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<b>0.167</b>	<0.150
<b>Chloride</b>	SM4500Cl-B		<b>560.0</b>	<b>80.0</b>	<b>400</b>	<b>144</b>	<16.0	<16.0	<b>192</b>	<b>32.0</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	<b>60.9</b>	<b>14.1</b>	<10.0	<10.0	<b>61.0</b>	<b>11.3</b>
<b>DRO</b>	TPH 8015M		<b>2390</b>	<b>1770</b>	<b>20300</b>	<b>3310</b>	<b>209</b>	<10.0	<b>40600</b>	<b>522</b>

April 12, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RIGHT HAND CANYON 35-7 SWD

Enclosed are the results of analyses for samples received by the laboratory on 04/09/12 10:05.

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: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 1 @ SURFACE (H200800-01)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PII) 103 % 64.4-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>256</b>	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/11/2012	ND	197	98.7	200	3.96		
<b>DRO &gt;C10-C28</b>	<b>556</b>	10.0	04/11/2012	ND	221	110	200	12.5		

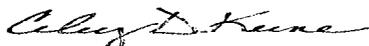
Surrogate: 1-Chlorooctane 108 % 55.5-154

Surrogate: 1-Chlorooctadecane 127 % 57.6-158

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: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 1 @ 1 FT (H200800-02)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 64.4-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/11/2012	ND	197	98.7	200	3.96		
<b>DRO &gt;C10-C28</b>	<b>748</b>	10.0	04/11/2012	ND	221	110	200	12.5		

Surrogate: 1-Chlorooctane 110 % 55.5-154

Surrogate: 1-Chlorooctadecane 139 % 57.6-158

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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: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 2 @ SURFACE (H200800-03)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<50.0	50.0	04/12/2012	ND	197	98.7	200	3.96			
DRO >C10-C28	8110	50.0	04/12/2012	ND	221	110	200	12.5			

Surrogate: 1-Chlorooctane 123 % 55.5-154

Surrogate: 1-Chlorooctadecane 325 % 57.6-158

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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: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 2 @ 1 FT (H200800-04)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

*Surrogate: 4-Bromofluorobenzene (PIL) 104 % 64.4-134*

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>80.0</b>	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/11/2012	ND	197	98.7	200	3.96		
<b>DRO &gt;C10-C28</b>	<b>218</b>	10.0	04/11/2012	ND	221	110	200	12.5		

*Surrogate: 1-Chlorooctane 114 % 55.5-154*
*Surrogate: 1-Chlorooctadecane 147 % 57.6-158*

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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: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 3 @ SURFACE (H200800-05)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<50.0	50.0	04/12/2012	ND	197	98.7	200	3.96			
<b>DRO &gt;C10-C28</b>	<b>8390</b>	50.0	04/12/2012	ND	221	110	200	12.5			

Surrogate: 1-Chlorooctane 130 % 55.5-154

Surrogate: 1-Chlorooctadecane 329 % 57.6-158

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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: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 3 @ 1 FT (H200800-06)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

*Surrogate: 4-Bromofluorobenzene (PIL) 101 % 64.4-134*

Chloride, SM4500CI-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	04/11/2012	ND	400	100	400	3.92		

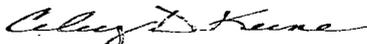
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/11/2012	ND	197	98.7	200	3.96		
<b>DRO &gt;C10-C28</b>	<b>863</b>	10.0	04/11/2012	ND	221	110	200	12.5		

*Surrogate: 1-Chlorooctane 120 % 55.5-154*
*Surrogate: 1-Chlorooctadecane 132 % 57.6-158*

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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: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 4 @ SURFACE (H200800-07)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PII) 101 % 64.4-134

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>96.0</b>	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/11/2012	ND	197	98.7	200	3.96		
<b>DRO &gt;C10-C28</b>	<b>2360</b>	10.0	04/11/2012	ND	221	110	200	12.5		

Surrogate: 1-Chlorooctane 118 % 55.5-154

Surrogate: 1-Chlorooctadecane 129 % 57.6-158

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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: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 4 @ 1 FT (H200800-08)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
<b>Ethylbenzene*</b>	<b>0.056</b>	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

Surrogate: 4-Bromofluorobenzene (PIL) 122 % 64.4-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>48.0</b>	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/11/2012	ND	197	98.7	200	3.96		
<b>DRO &gt;C10-C28</b>	<b>1690</b>	10.0	04/11/2012	ND	221	110	200	12.5		

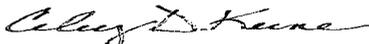
Surrogate: 1-Chlorooctane 116 % 55.5-154

Surrogate: 1-Chlorooctadecane 126 % 57.6-158

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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: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 5 @ SURFACE (H200800-09)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

*Surrogate: 4-Bromofluorobenzene (PIL) 101 % 64.4-134*

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>560</b>	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/11/2012	ND	197	98.7	200	3.96		
<b>DRO &gt;C10-C28</b>	<b>2390</b>	10.0	04/11/2012	ND	221	110	200	12.5		

*Surrogate: 1-Chlorooctane 115 % 55.5-154*
*Surrogate: 1-Chlorooctadecane 128 % 57.6-158*

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**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 5 @ 1 FT (H200800-10)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30		
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75		
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09		
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67		

*Surrogate: 4-Bromofluorobenzene (PIL) 102 % 64.4-134*

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>80.0</b>	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/11/2012	ND	197	98.7	200	3.96		
<b>DRO &gt;C10-C28</b>	<b>1770</b>	10.0	04/11/2012	ND	221	110	200	12.5		

*Surrogate: 1-Chlorooctane 120 % 55.5-154*
*Surrogate: 1-Chlorooctadecane 126 % 57.6-158*

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**Analytical Results For:**

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 Cliff Brunson  
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 Fax To: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 6 @ SURFACE (H200800-11)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72		

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 64.4-134

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>400</b>	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>60.9</b>	50.0	04/12/2012	ND	197	98.7	200	3.96			
<b>DRO &gt;C10-C28</b>	<b>20300</b>	50.0	04/12/2012	ND	221	110	200	12.5			

Surrogate: 1-Chlorooctane 130 % 55.5-154

Surrogate: 1-Chlorooctadecane 331 % 57.6-158

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**Analytical Results For:**

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 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 6 @ 1 FT (H200800-12)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72		

*Surrogate: 4-Bromofluorobenzene (PIL) 106% 64.4-134*

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>144</b>	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>14.1</b>	10.0	04/11/2012	ND	197	98.7	200	3.96		
<b>DRO &gt;C10-C28</b>	<b>3310</b>	10.0	04/11/2012	ND	221	110	200	12.5		

*Surrogate: 1-Chlorooctane 118% 55.5-154*
*Surrogate: 1-Chlorooctadecane 119% 57.6-158*

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Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 7 @ SURFACE (H200800-13)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72		

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/12/2012	ND	207	103	200	4.03		
<b>DRO &gt;C10-C28</b>	<b>209</b>	10.0	04/12/2012	ND	234	117	200	15.1		

Surrogate: 1-Chlorooctane 106 % 55.5-154

Surrogate: 1-Chlorooctadecane 133 % 57.6-158

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**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 7 @ 1 FT (H200800-14)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72		

*Surrogate: 4-Bromofluorobenzene (PIL) 103 % 64.4-134*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/11/2012	ND	400	100	400	3.92		

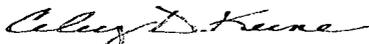
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/12/2012	ND	207	103	200	4.03		
DRO >C10-C28	<10.0	10.0	04/12/2012	ND	234	117	200	15.1		

*Surrogate: 1-Chlorooctane 115 % 55.5-154*
*Surrogate: 1-Chlorooctadecane 143 % 57.6-158*

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**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 8 @ SURFACE (H200800-15)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
<b>Total Xylenes*</b>	<b>0.167</b>	0.150	04/12/2012	ND	7.11	118	6.00	5.72		

*Surrogate: 4-Bromofluorobenzene (PIL) 103 % 64.4-134*

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>192</b>	16.0	04/11/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>61.0</b>	50.0	04/12/2012	ND	207	103	200	4.03			
<b>DRO &gt;C10-C28</b>	<b>40600</b>	50.0	04/12/2012	ND	234	117	200	15.1			

*Surrogate: 1-Chlorooctane 102 % 55.5-154*
*Surrogate: 1-Chlorooctadecane 613 % 57.6-158*

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**Analytical Results For:**

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 Hobbs NM, 88241  
 Fax To: (505) 397-0397

Received:	04/09/2012	Sampling Date:	04/05/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	RIGHT HAND CANYON 35-7 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 8 @ 1 FT (H200800-16)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2012	ND	2.13	107	2.00	4.72		
Toluene*	<0.050	0.050	04/12/2012	ND	2.26	113	2.00	5.27		
Ethylbenzene*	<0.050	0.050	04/12/2012	ND	2.27	114	2.00	5.63		
Total Xylenes*	<0.150	0.150	04/12/2012	ND	7.11	118	6.00	5.72		

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 64.4-134

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	04/11/2012	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	11.3	10.0	04/12/2012	ND	207	103	200	4.03		
DRO >C10-C28	522	10.0	04/12/2012	ND	234	117	200	15.1		

Surrogate: 1-Chlorooctane 103 % 55.5-154

Surrogate: 1-Chlorooctadecane 128 % 57.6-158

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**Notes and Definitions**

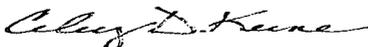
- S-06            The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- ND             Analyte NOT DETECTED at or above the reporting limit
- RPD            Relative Percent Difference
- \*\*             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

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.



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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>		<b>ANALYSIS REQUEST</b>																							
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: <i>Oxy</i>		City:																									
Project Name: <i>Right hand Canyon 35-7 SWD</i>		State: Zip:																									
Project Location: <i>Carlsbad, NM</i>		Phone #:																									
Sampler Name: <i>Jordan Wood</i>		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING																	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
<i>H200810</i>																											
	<i>SP 1 Surface</i>	<i>9</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>9-5-12</i>	<i>10:51</i>	<i>X</i>	<i>X</i>	<i>X</i>										
	<i>SP 1 @ 1ft</i>	<i>9</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>"</i>	<i>11:00</i>	<i>X</i>	<i>X</i>	<i>X</i>										
	<i>SP 2 Surface</i>	<i>9</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>"</i>	<i>11:23</i>	<i>X</i>	<i>X</i>	<i>X</i>										
	<i>SP 2 @ 1ft</i>	<i>9</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>"</i>	<i>11:33</i>	<i>X</i>	<i>X</i>	<i>X</i>										
	<i>SP 3 Surface</i>	<i>9</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>"</i>	<i>12:34</i>	<i>X</i>	<i>X</i>	<i>X</i>										
	<i>SP 3 @ 1ft</i>	<i>9</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>"</i>	<i>12:50</i>	<i>X</i>	<i>X</i>	<i>X</i>										
	<i>SP 4 Surface</i>	<i>9</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>"</i>	<i>1:15</i>	<i>X</i>	<i>X</i>	<i>X</i>										
	<i>SP 4 @ 1ft</i>	<i>9</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>"</i>	<i>12:29</i>	<i>X</i>	<i>X</i>	<i>X</i>										
	<i>SP 5 Surface</i>	<i>9</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>"</i>	<i>1:40</i>	<i>X</i>	<i>X</i>	<i>X</i>										
	<i>SP 5 @ 1ft</i>	<i>9</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>"</i>	<i>2:01</i>	<i>X</i>	<i>X</i>	<i>X</i>										

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Relinquished By: <i>Jordan Wood</i>	Date: <i>9-4-12</i>	Received By: <i>Ka Swain</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>10:00 AM</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>Ka Swain</i>	Date: <i>9-4-12</i>	Received By: <i>Jodi Jensen</i>	REMARKS: <i>EMAIL ALL</i>	
	Time: <i>10:05 AM</i>			
Delivered By: (Circle One)	Sampler - UPS - Bus - Other: <i>50</i>	Sample Condition	CHECKED BY: (Initials) <i>JH</i>	
		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
		Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

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

*#26*



District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1060 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised October 10, 2003

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

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

**Release Notification and Corrective Action**

*AMLB1122338019*

**OPERATOR**

Initial Report  Final Report

Name of Company <b>OXY USA</b> <i>192463</i>	Contact <b>Kelton Beard</b>
Address <b>1502 W. Commerce Carlsbad, NM 88220</b>	Telephone No. <b>(O) 575-628-4100</b>
Facility Name <b>Righthand Canyon 35-7</b>	Facility Type <b>SWD</b>

Surface Owner	Mineral Owner	Lease No. <b>API: 3001534529</b>
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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
	35	21S	24E					Eddy

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

**NATURE OF RELEASE**

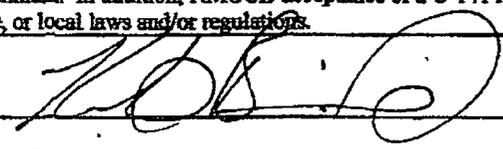
Type of Release <b>Produced Water &amp; Oil</b>	Volume of Release <b>800 water/100 oil</b>	Volume Recovered <b>140</b>
Source of Release <b>Gun Barrel Tank</b>	Date and Hour of Occurrence	Date and Hour of Discovery <b>6-30-11 @ 4:00pm</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Mike Bratcher: NMOCD, Jim Amos-BLM</b>	
By Whom? <b>Kelton Beard (Oxy)</b>	Date and Hour <b>See above 7/1/11 7:15A</b>	
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.\*  
Tank Collapsed causing fluid to be released. Vacuum Truck was called to pick up remaining fluid.

Describe Area Affected and Cleanup Action Taken.\*  
Area affected was on and off of location into the pasture down the bottom of the slope north of the location. As per request by BLM and upon like approval by the state, the area off location on top just before the ravine will be washed with biodegradable soap. A catchment basin will be installed to gather all free liquid. The affected area on the road and on location will be cleaned up to required state levels or hard rock, whichever is met first.

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

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Kelton Beard</b>	Signed By <i>Mike Bratcher</i> Approved by District Supervisor:	
Title: <b>HES Specialist</b>	Approval Date: <b>AUG 11 2011</b>	Expiration Date:
E-mail Address: <b>kelton_beard@oxy.com</b>	Conditions of Approval: Remediation per OCD Rules & Guidelines. <b>SUBMIT REMEDIATION PROPOSAL NOT LATER THAN: 9/11/2011</b>	Attached <input type="checkbox"/>

\* Attach Additional Sheets If Necessary

RECEIVED  
JUL 11 2011  
NMOCD ARTESIA

*2RP-828*