

Closure Report

NM OIL CONSERVATION
ARTESIA DISTRICT

JUL 22 2014

Site Description		RECEIVED
Site Name:	Righthand Canyon 35-7	
Company:	Oxy Permian Ltd.	
Legal Description:	U/L K, Section 35, T21S, R24E	
County:	Eddy County, NM	
GPS Coordinates:	N 32.43406° W 104.47120°	

Release Data	
Date of Release:	12/27/2012
Type of Release:	Produced water
Source of Release:	Failure in 2" valve on discharge line
Volume of Release:	175 bbls
Volume Recovered:	0 bbls

Remediation Specifications	
Remediation Parameters:	Excavate to a depth of 1 foot around SP1. Excavate the remainder of the area on top of the hill to a depth of 6 inches. Obtain sidewall samples. Sample downslope areas. Move or elevate flow line to remove contaminants underneath. Obtain a sample at SP1B at 1.5'. Backfill the site with clean soil.
Remediation Activities:	06/05/2014 to 06/19/2014

Plan Sent to OCD:	04/01/2014	Meeting between M. Bratcher & C. Brunson
OCD Approval of Plan:	04/01/2014	Meeting between M. Bratcher & C. Brunson
Plan Sent to BLM:	04/18/2014	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	05/01/2014	Email from J. Van Curen to Cliff Brunson

Supporting Documentation	
Initial C-141	Signed 01/03/2013
Final C-141	Signed 07/08/2014
Site Diagram	January 2013
Groundwater Plot	75'
TOPO Maps	January 2013
Lab Summary	02/05/2013, 01/03/2014, 06/16/2014, and 06/16/2014
Lab Analysis	02/05/2013, 01/03/2014, 06/16/2014, and 06/16/2014
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.	07/17/2014

NM OIL CONSERVATION

ARTESIA DISTRICT

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

JUL 22 2014

Form C-141
Revised October 10, 2003

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

RECEIVED

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

Release Notification and Corrective Action**OPERATOR**☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Righthand Canyon 35-7 SWD	Facility Type	SWD
Surface Owner	Mineral Owner	Lease No. API#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	1975	South	2405	West	Eddy County, NM

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	175 bbls	Volume Recovered	0 bbls
Source of Release	Failure in 2" valve on the discharge line	Date and Hour of Occurrence	12/27/2012	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- OCD, James Amos-BLM, Terry Gregston-BLM		
By Whom?	Christopher Jones	Date and Hour	12/27/2012 @ 1:53 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.*

Failure in a 2" valve on the discharge line caused 175 bbls of produce water to leak onto the ground. Fluids were not recoverable. The valve was repaired.

Describe Area Affected and Cleanup Action Taken.*

Failure in a 2" valve on the discharge line caused 175 bbls of produce water to leak onto the ground. Fluids were not recoverable. Remediation will be performed in accordance with an OCD and BLM approved remediation plan.

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.

OIL CONSERVATION DIVISION

Signature:	Approved by District Supervisor:		
Printed Name: Christopher Jones			
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Christopher.Jones@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 1-3-13 Phone: (575) 628-4121			

* Attach Additional Sheets If Necessary

NM OIL CONSERVATION
ARTESIA DISTRICT

JUL 22 2014

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

RECEIVED

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Righthand Canyon 35-7 SWD	Facility Type	SWD
Surface Owner		Mineral Owner	Lease No. API#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	1975	South	2405	West	Eddy County, NM

Latitude _____ Longitude _____

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Source of Release	Failure in 2" valve on the discharge line	Date and Hour of Occurrence	12/27/2012	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- OCD, James Amos-BLM, Terry Gregston-BLM			
By Whom?	Christopher Jones	Date and Hour	12/27/2012 @ 1:53 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.*

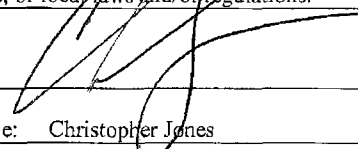
Describe Cause of Problem and Remedial Action Taken.*

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Describe Area Affected and Cleanup Action Taken.*

Failure in a 2" valve on the discharge line caused 175 bbls of produce water to leak onto the ground. Fluids were not recoverable. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD on 04/01/2014 and approved by Jennifer Van Curen of the BLM via email on 05/01/2014.

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

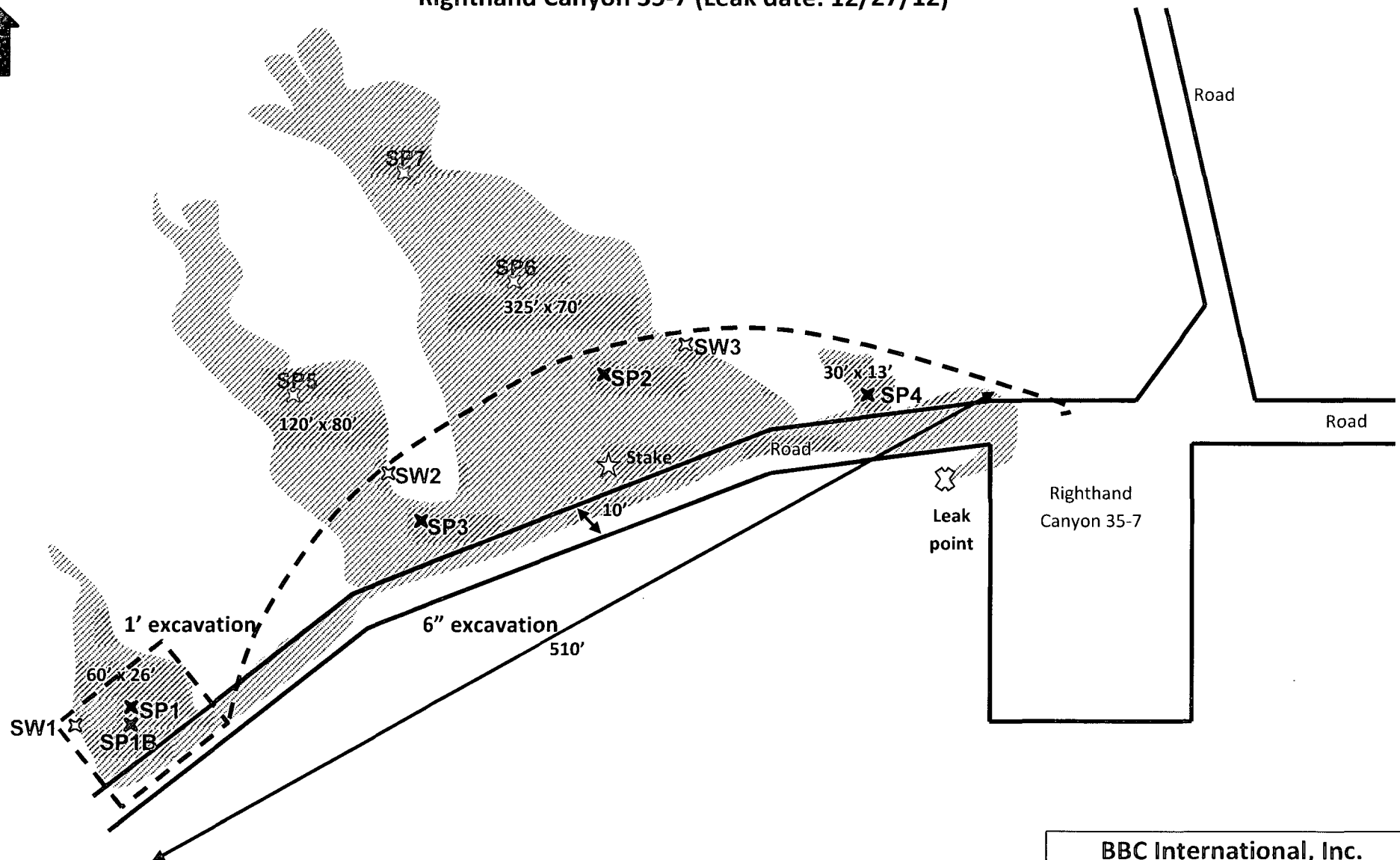
Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Christopher Jones		Approved by District Supervisor:	
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Christopher_Jones@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>	
Date: 7/18/14	Phone: (575) 628-4121		

* Attach Additional Sheets If Necessary



Oxy

Righthand Canyon 35-7 (Leak date: 12/27/12)



BBC International, Inc.

Oxy

Righthand Canyon 35-7 (12-27-12)

Date: 1/17/2013

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2013



Groundwater Plot

Oxy Righthand Canyon 35-7 SWD

County
Eddy

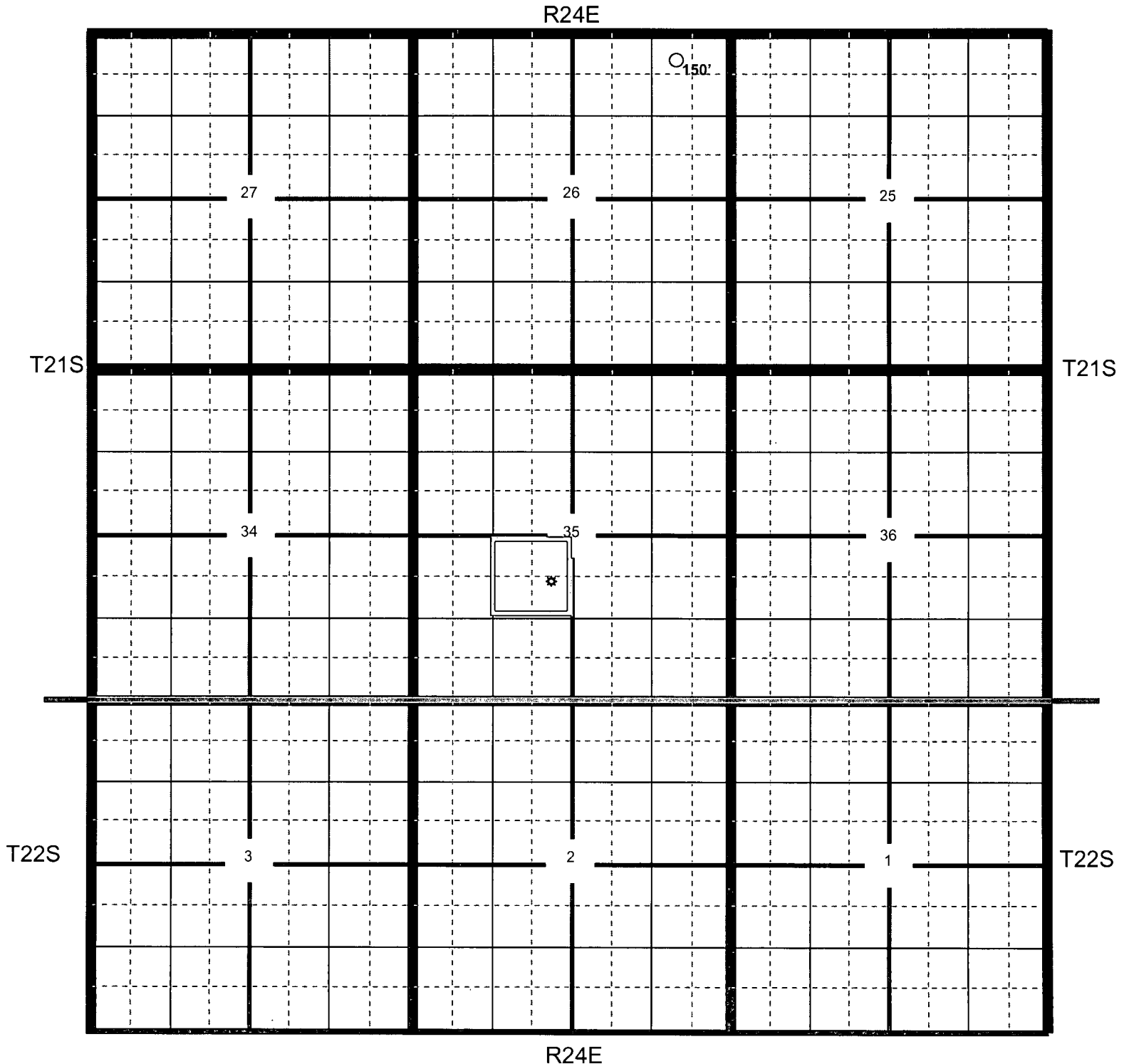
Unit Letter
K

Section
35

Township
21S

Range
24E

Trend Map 75'



★ Location

○ OCD

○ USGS

○ SEO

● All Databases

Oxy Righthand Canyon 35-7 SWD

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

Trend Map 75'

1

2

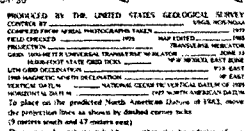
NW/NW None	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW * Unit Letter K	NW/SE	NE/SE
Unit Letter L	Unit Letter J	Unit Letter I	
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit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

3

4

Righthand Canyon 35-7 (Leak date: 12/27/12)

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



SCALE: 1:24,000

COUNTOUT INTERVAL: 20 FEET

THIS MAP EMPHASIZES THE NATIONAL MAP ACCURACY STANDARDS
FROM SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225
OR RESTON, VIRGINIA 20192

1	2	3	1 James Harrell
			2 Nancy Rivers
4		5	3 Luke McMillan (sister)
			4 Martha Green
			5 Carolyn West
6	7	8	6 Susan Marie Ford
			7 Emmae Ford
			8 Johnnie Carr

ROAD LEGEND

Improved Road
Unimproved Road
Trail

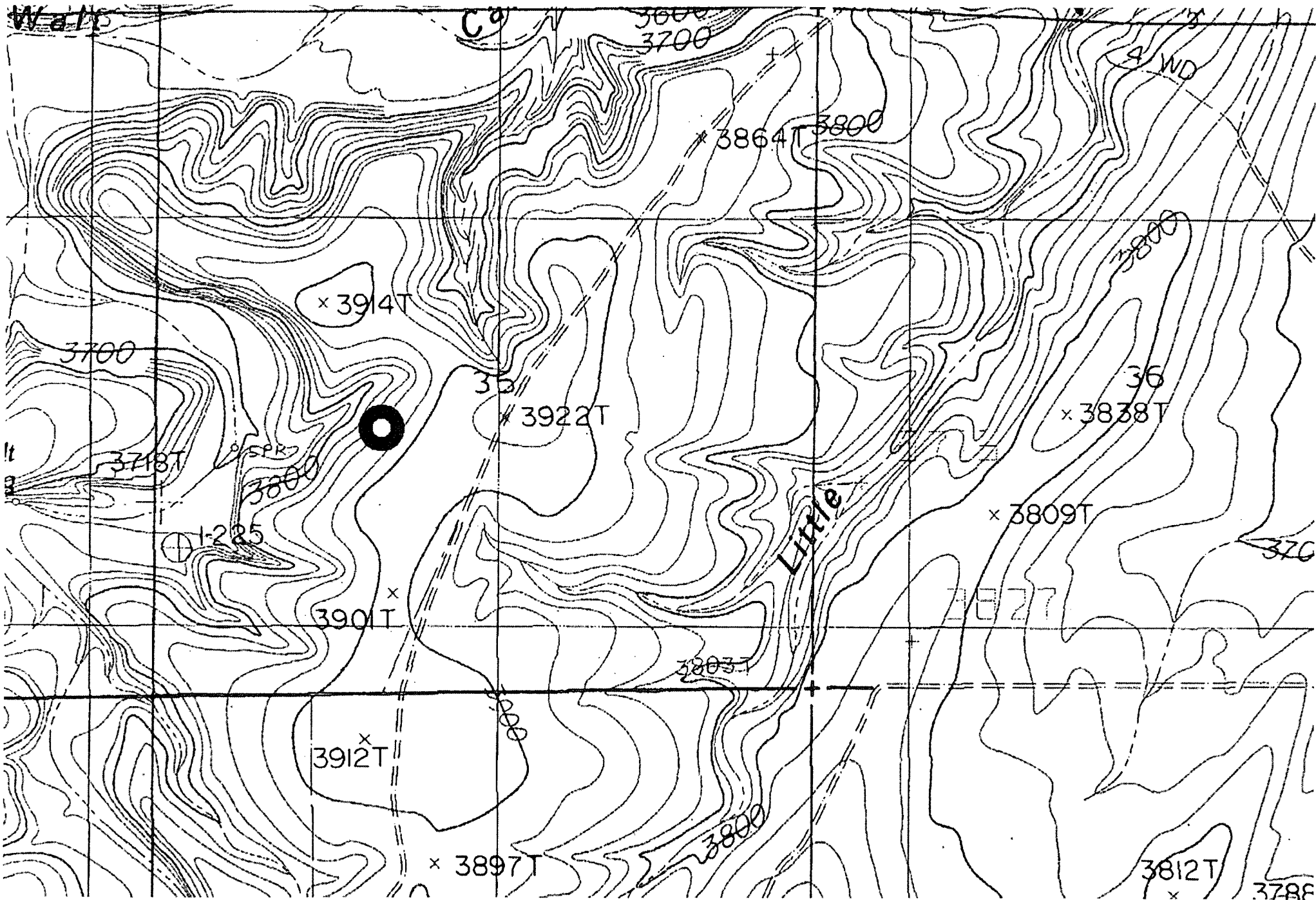
Interstate Route
U.S. Route
State Route

AZOTEA PEAK, NEW MEXICO
PROVISIONAL EDITION 1985

52104-184-1F-028

Oxy

Righthand Canyon 35-7 (Leak date: 12/27/12)



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

		Sample	SP1 @ SURFACE	SP1 @ 6"
Analyte	Method	Date	2/5/13	2/5/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		128	32
GRO	TPH 8015M		<50.0	<50.0
DRO	TPH 8015M		6720	11400

		Sample	SP2 @ SURFACE	SP2 @ 6"
Analyte	Method	Date	2/5/13	2/5/13
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		32	176

		Sample	SP3 @ SURFACE	SP3 @ 6"
Analyte	Method	Date	2/5/13	2/5/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		448	240
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		4820	541

		Sample	SP4 @ SURFACE	SP4 @ 6"
Analyte	Method	Date	2/5/13	2/5/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		400	160
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		4200	229

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

		Sample	SP1B @ 6"	SP1B @ 1'
Analyte	Method	Date	1/3/14	1/3/14
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		762	1700

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

		Sample	SP5 @ SURFACE
Analyte	Method	Date	6/16/14
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SP6 @ SURFACE
Analyte	Method	Date	6/16/14
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SP7 @ SURFACE
Analyte	Method	Date	6/16/14
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

Laboratory Analytical Results Summary
Righthand Canyon 35-7

		Sample	Sidewall #1
Analyte	Method	Date	6/16/14
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	Sidewall #2
Analyte	Method	Date	6/16/14
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	Sidewall #3
Analyte	Method	Date	6/16/14
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SP1B
Analyte	Method	Date	6/16/14
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0



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

February 11, 2013

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 02/06/13 8:25.

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 02/06/2013
 Reported: 02/11/2013
 Project Name: RIGHT HAND CANYON 35-7 SWD
 Project Number: NONE GIVEN
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 02/05/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H300329-01)

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	02/07/2013	ND	1.94	97.1	2.00	17.9		
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4		
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8		
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0		
Total BTEX	<0.300	0.300	02/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/07/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	02/07/2013	ND	221	110	200	20.2		
DRO >C10-C28	6720	50.0	02/07/2013	ND	202	101	200	21.9		

Surrogate: 1-Chlorooctane 74.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 280 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/06/2013
Reported: 02/11/2013
Project Name: RIGHT HAND CANYON 35-7 SWD
Project Number: NONE GIVEN
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 02/05/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 6" (H300329-02)

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	02/07/2013	ND	1.94	97.1	2.00	17.9		
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4		
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8		
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0		
Total BTEX	<0.300	0.300	02/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 123 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/07/2013	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
S-04									

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	<50.0	50.0	02/07/2013	ND	221	110	200	20.2	
DRO >C10-C28	11400	50.0	02/07/2013	ND	202	101	200	21.9	

Surrogate: 1-Chlorooctane 79.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 457 % 63.6-154

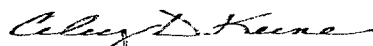
Sample ID: SP 2 @ SURFACE (H300329-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/07/2013	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/06/2013	Sampling Date:	02/05/2013
Reported:	02/11/2013	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 @ 6" (H300329-04)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/07/2013	ND	432	108	400	0.00	

Sample ID: SP 3 @ SURFACE (H300329-05)

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	02/07/2013	ND	1.94	97.1	2.00	17.9	
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4	
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8	
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0	
Total BTEX	<0.300	0.300	02/07/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	02/07/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/07/2013	ND	221	110	200	20.2		
DRO >C10-C28	4820	10.0	02/07/2013	ND	202	101	200	21.9		

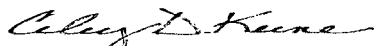
Surrogate: 1-Chlorooctane 83.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 242 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/06/2013	Sampling Date:	02/05/2013
Reported:	02/11/2013	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 @ 6" (H300329-06)

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	02/07/2013	ND	1.94	97.1	2.00	17.9		
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4		
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8		
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0		
Total BTEX	<0.300	0.300	02/07/2013	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/07/2013	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/07/2013	ND	221	110	200	20.2		
DRO >C10-C28	541	10.0	02/07/2013	ND	202	101	200	21.9		

Surrogate: 1-Chlorooctane 85.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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Caley D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/06/2013	Sampling Date:	02/05/2013
Reported:	02/11/2013	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 (H300329-07)

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	02/07/2013	ND	1.94	97.1	2.00	17.9		
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4		
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8		
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0		
Total BTEX	<0.300	0.300	02/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	02/07/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2013	ND	221	110	200	20.2	
DRO >C10-C28	4200	10.0	02/07/2013	ND	202	101	200	21.9	

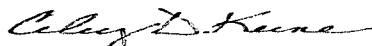
Surrogate: 1-Chlorooctane 83.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 223 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/06/2013	Sampling Date:	02/05/2013
Reported:	02/11/2013	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 @ 6" (H300329-08)

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	02/07/2013	ND	1.94	97.1	2.00	17.9		
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4		
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8		
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0		
Total BTEX	<0.300	0.300	02/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/07/2013	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2013	ND	221	110	200	20.2	
DRO >C10-C28	229	10.0	02/07/2013	ND	202	101	200	21.9	

Surrogate: 1-Chlorooctane 80.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

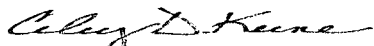
Notes and Definitions

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



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

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 01/07/2014
 Reported: 01/13/2014
 Project Name: RIGHT HAND CANYON 35
 Project Number: NONE GIVEN
 Project Location: INDIAN BASIN

 Sampling Date: 01/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1B @ 6" (H400040-01)

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	01/10/2014	ND	1.92	96.1	2.00	2.06		
Toluene*	<0.050	0.050	01/10/2014	ND	1.89	94.6	2.00	2.20		
Ethylbenzene*	<0.050	0.050	01/10/2014	ND	1.93	96.4	2.00	2.32		
Total Xylenes*	<0.150	0.150	01/10/2014	ND	5.63	93.8	6.00	2.42		
Total BTEX	<0.300	0.300	01/10/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/08/2014	ND	175	87.7	200	2.38		
DRO >C10-C28	762	10.0	01/08/2014	ND	180	90.1	200	1.19		

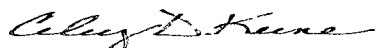
Surrogate: 1-Chlorooctane 86.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 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 1B @ 1' (H400040-02)

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	01/10/2014	ND	1.92	96.1	2.00	2.06		
Toluene*	<0.050	0.050	01/10/2014	ND	1.89	94.6	2.00	2.20		
Ethylbenzene*	<0.050	0.050	01/10/2014	ND	1.93	96.4	2.00	2.32		
Total Xylenes*	<0.150	0.150	01/10/2014	ND	5.63	93.8	6.00	2.42		
Total BTEX	<0.300	0.300	01/10/2014	ND						

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

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/08/2014	ND	175	87.7	200	2.38		
DRO >C10-C28	1700	10.0	01/08/2014	ND	180	90.1	200	1.19		

Surrogate: 1-Chlorooctane 84.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 129 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

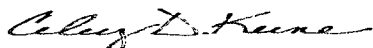
Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Page 5 of 5

#54



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

June 18, 2014

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 06/17/14 9:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/17/2014
Reported: 06/18/2014
Project Name: RIGHT HAND CANYON 35-7 SWD
Project Number: NONE GIVEN
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 06/16/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ SURFACE (H401833-01)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2014	ND	2.08	104	2.00	0.303	
Toluene*	<0.050	0.050	06/17/2014	ND	2.23	112	2.00	0.554	
Ethylbenzene*	<0.050	0.050	06/17/2014	ND	2.01	101	2.00	0.264	
Total Xylenes*	<0.150	0.150	06/17/2014	ND	6.21	103	6.00	0.529	
Total BTEX	<0.300	0.300	06/17/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/18/2014	ND	165	82.4	200	0.946	
DRO >C10-C28	<10.0	10.0	06/18/2014	ND	173	86.4	200	5.13	

Surrogate: 1-Chlorooctane 67.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 69.3 % 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:	06/17/2014	Sampling Date:	06/16/2014
Reported:	06/18/2014	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 (H401833-02)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/17/2014	ND	2.08	104	2.00	0.303		
Toluene*	<0.050	0.050	06/17/2014	ND	2.23	112	2.00	0.554		
Ethylbenzene*	<0.050	0.050	06/17/2014	ND	2.01	101	2.00	0.264		
Total Xylenes*	<0.150	0.150	06/17/2014	ND	6.21	103	6.00	0.529		
Total BTEX	<0.300	0.300	06/17/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 89.4-126

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	06/18/2014	ND	165	82.4	200	0.946	
DRO >C10-C28	<10.0	10.0	06/18/2014	ND	173	86.4	200	5.13	


Surrogate: 1-Chlorooctane 63.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 65.0 % 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:	06/17/2014	Sampling Date:	06/16/2014
Reported:	06/18/2014	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 (H401833-03)

BTEX 8021B			mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/17/2014	ND	2.08	104	2.00	0.303		
Toluene*	<0.050	0.050	06/17/2014	ND	2.23	112	2.00	0.554		
Ethylbenzene*	<0.050	0.050	06/17/2014	ND	2.01	101	2.00	0.264		
Total Xylenes*	<0.150	0.150	06/17/2014	ND	6.21	103	6.00	0.529		
Total BTEX	<0.300	0.300	06/17/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/18/2014	ND	165	82.4	200	0.946	
DRO >C10-C28	<10.0	10.0	06/18/2014	ND	173	86.4	200	5.13	

Surrogate: 1-Chlorooctane 74.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 81.0 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

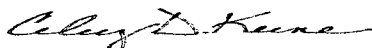
Notes and Definitions

- 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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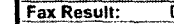
Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 6

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Relinquished By: 		Date: 6/16/14 Time: 5:00pm		Received By: 		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By: 		Date: 6/17/14 Time: 4:00		Received By: 		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No -4.60		CHECKED BY: (Initials) 		REMARKS: <div style="font-size: 2em; text-align: center;">Rush</div>	

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

#54



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

June 18, 2014

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 06/17/14 9:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

 Received: 06/17/2014
 Reported: 06/18/2014
 Project Name: RIGHT HAND CANYON 35-7 SWD
 Project Number: NONE GIVEN
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 06/16/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SW #1 (H401832-01)

BTEX 8021B			mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/17/2014	ND	2.08	104	2.00	0.303		
Toluene*	<0.050	0.050	06/17/2014	ND	2.23	112	2.00	0.554		
Ethylbenzene*	<0.050	0.050	06/17/2014	ND	2.01	101	2.00	0.264		
Total Xylenes*	<0.150	0.150	06/17/2014	ND	6.21	103	6.00	0.529		
Total BTEX	<0.300	0.300	06/17/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/17/2014	ND	165	82.4	200	0.946	
DRO >C10-C28	<10.0	10.0	06/17/2014	ND	173	86.4	200	5.13	

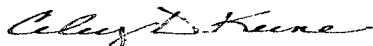
Surrogate: 1-Chlorooctane 66.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 67.9 % 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: 06/17/2014
 Reported: 06/18/2014
 Project Name: RIGHT HAND CANYON 35-7 SWD
 Project Number: NONE GIVEN
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 06/16/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SW #2 (H401832-02)

BTEX 8021B			mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/17/2014	ND	2.08	104	2.00	0.303		
Toluene*	<0.050	0.050	06/17/2014	ND	2.23	112	2.00	0.554		
Ethylbenzene*	<0.050	0.050	06/17/2014	ND	2.01	101	2.00	0.264		
Total Xylenes*	<0.150	0.150	06/17/2014	ND	6.21	103	6.00	0.529		
Total BTEX	<0.300	0.300	06/17/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 112 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/17/2014	ND	165	82.4	200	0.946	
DRO >C10-C28	<10.0	10.0	06/17/2014	ND	173	86.4	200	5.13	

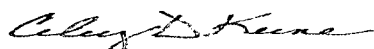
Surrogate: 1-Chlorooctane 81.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.8 % 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:	06/17/2014	Sampling Date:	06/16/2014
Reported:	06/18/2014	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: SW #3 (H401832-03)

BTEX 8021B			mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/17/2014	ND	2.08	104	2.00	0.303		
Toluene*	<0.050	0.050	06/17/2014	ND	2.23	112	2.00	0.554		
Ethylbenzene*	<0.050	0.050	06/17/2014	ND	2.01	101	2.00	0.264		
Total Xylenes*	<0.150	0.150	06/17/2014	ND	6.21	103	6.00	0.529		
Total BTEX	<0.300	0.300	06/17/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/17/2014	ND	165	82.4	200	0.946	
DRO >C10-C28	<10.0	10.0	06/17/2014	ND	173	86.4	200	5.13	

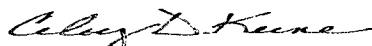
Surrogate: 1-Chlorooctane 84.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.4 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	06/17/2014	Sampling Date:	06/16/2014
Reported:	06/18/2014	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 #1B (H401832-04)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/17/2014	ND	2.08	104	2.00	0.303		
Toluene*	<0.050	0.050	06/17/2014	ND	2.23	112	2.00	0.554		
Ethylbenzene*	<0.050	0.050	06/17/2014	ND	2.01	101	2.00	0.264		
Total Xylenes*	<0.150	0.150	06/17/2014	ND	6.21	103	6.00	0.529		
Total BTEx	<0.300	0.300	06/17/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/17/2014	ND	165	82.4	200	0.946		
DRO >C10-C28	<10.0	10.0	06/17/2014	ND	173	86.4	200	5.13		

Surrogate: 1-Chlorooctane 79.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.8 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

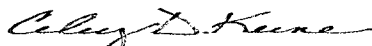
Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1
Page 7 of 7

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																									
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: <i>Same</i>																													
Project #:		Project Owner: <i>OK</i>		City:																													
Project Name: <i>Right Hand Canyon 35-7</i>				State: Zip:																													
Project Location: <i>Carls Bad</i>				Phone #:																													
Sampler Name: <i>Gary RAY</i>				Fax #:																													
FOR LAB USE ONLY				MATRIX				PRESERV.				SAMPLING																					
Lab I.D.		Sample I.D.		GRAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME		TPH		B-TX	
H401832				6		2																				6-16-14		2:00		X		X	
1 SW # 2				6		2																				6-16-14		2:20		X		X	
2 SW # 2				6		2																				6-16-14		2:40		X		X	
3 SW # 3				6		2																				6-16-14		2:50		X		X	
4 SP # 1B				6		2																											

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Relinquished By: <i>[Signature]</i>		Date: 6-16-14		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: 5:00 PM		Time: 5:00 PM		Time: 5:00 PM		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: <i>[Signature]</i>		Date: 6-17-14		Received By: <i>Jodi Jensen</i>		REMARKS: <i>Rush</i>			
Time: 4:00		Time: 4:00		Time: 4:00					
Delivered By: (Circle One)		Sample Condition		CHECKED BY: <i>[Signature]</i>					
Sampler - UPS - Bus - Other:		Cool Intact		Cool Intact					
		-4.6°C		Cool Intact					
		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No					

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

#54

Jennifer Gilkey

From: Cliff P. Brunson <cbrunson@bbcinternational.com>
Sent: Sunday, April 06, 2014 4:50 PM
To: Mike Bratcher
Cc: Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY-Righthand Canyon 35-7-Remediation Plan
Attachments: Remediation Packet, Righthand Canyon 35-7.pdf

Mike,

This e-mail is to confirm our conversation on April 1, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate to a depth of 1 foot in the leak area around SP1 and the remainder of the leak area on top of the hill will be excavated to a depth of 6 inches as depicted on the attached site diagram. Then the site will then be backfilled with clean soil.

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

Thanks, Cliff

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

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Kathy Purvis

From: Ken Swinney <kswinney@bbcinternational.com>
Sent: Thursday, May 01, 2014 3:20 PM
To: Kathy Purvis
Subject: FW: OXY-Righthand Canyon 35-7-Remediation Plan

From: Van Curen, Jennifer [<mailto:jvancure@blm.gov>]
Sent: Friday, April 18, 2014 3:22 PM
To: Brunson; Christopher.Jones@oxy.com; kswinney@bbcinternational.com; Jennifer Gilkey
Subject: Re: OXY-Righthand Canyon 35-7-Remediation Plan

Plan is approved with the following stips.

Need to grab samples on sides for horizontal delineation.

Need samples from downslope areas to have for future reference in case areas are not vegetated back.

Area downslope from leak point on south of road is also impacted and will need to be included in cleanup. flowlines will need to be moved or elevated to remove contaminants underneath.

Need sample at 1.5' at sample point SP1B to see if TPH lowers.

TPH needs to be below 1000 in all areas with no contaminants left at surface. The area off side of hill may need to be treated to assist with lowering TPH levels if they are elevated.

Berm pad sufficiently to prevent fluids from leaving well pad. If drainage is running onto pad from an upslope source, prevent by engineering a control.

Thanks

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

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

On Mon, Apr 7, 2014 at 6:26 AM, Amos, James <jamos@blm.gov> wrote:

----- Forwarded message -----

From: **Cliff P. Brunson** <cbrunson@bbcinternational.com>
Date: Sun, Apr 6, 2014 at 4:50 PM

Subject: OXY-Righthand Canyon 35-7-Remediation Plan

To: James Amos <jamos@blm.gov>

Cc: Chris Jones <Christopher_Jones@oxy.com>, Ken Swinney <kswinney@bbcinternational.com>, Jennifer Gilkey <jgilkey@bbcinternational.com>, Kathy Purvis <kathy@bbcinternational.com>

Jim,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Mike Bratcher of the NMOCD. Oxy will excavate to a depth of 1 foot in the leak area around SP1 and the remainder of the leak area on top of the hill will be excavated to a depth of 6 inches as depicted on the attached site diagram. Then the site will then be backfilled with clean soil.

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

Thanks, Cliff

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

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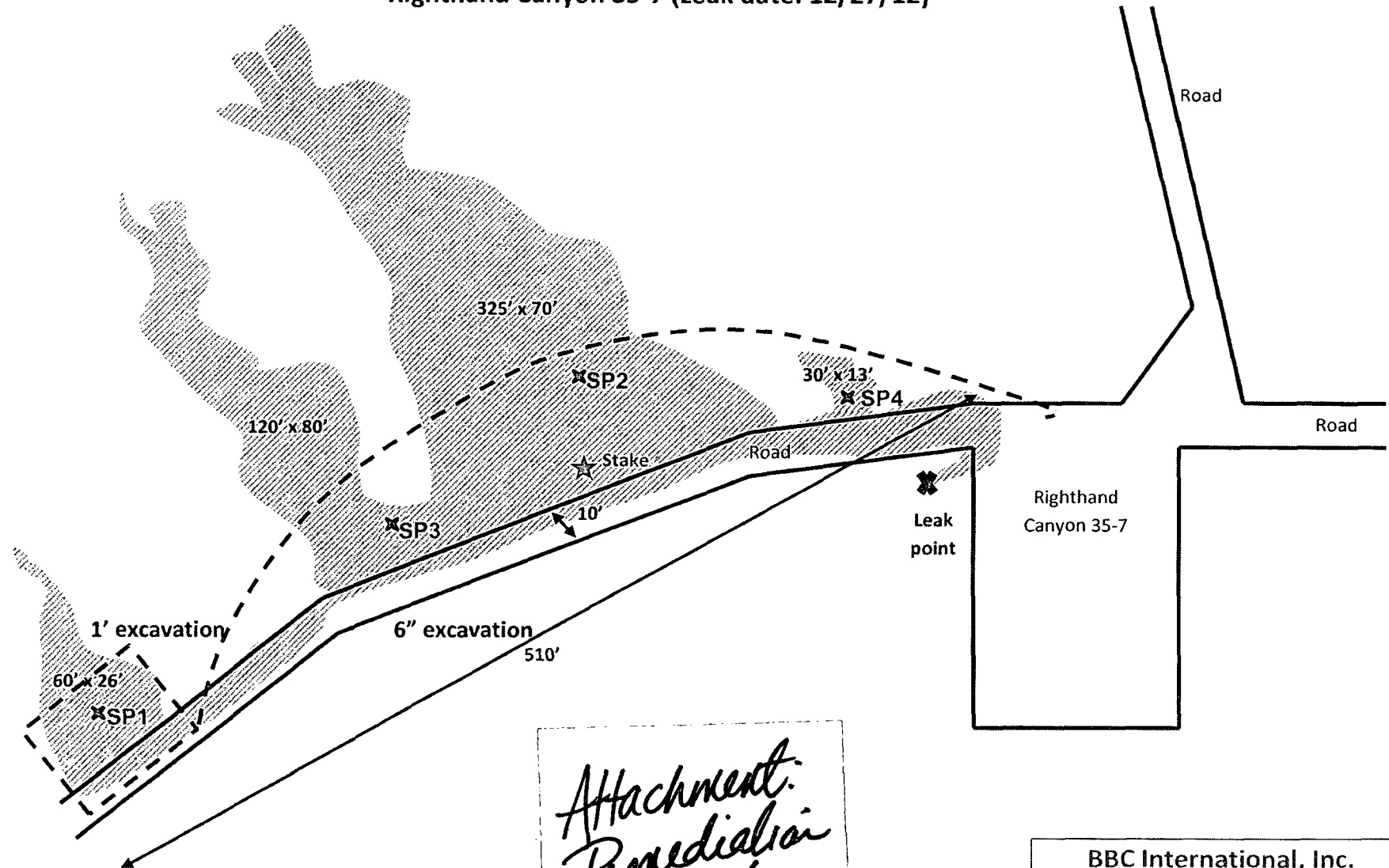
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James A. Amos
Bureau of Land Management
Carlsbad Field Office
Supervisory Environmental Protection Specialist
620 East Greene Street
Carlsbad, NM. 88220
Office: (575) 234-5909
Fax: (575) 234-5927
Cell: (575) 361-2648
E-mail: jamos@blm.gov



Oxy

Righthand Canyon 35-7 (Leak date: 12/27/12)



Attachment:
Remediation
Packet

BBC International, Inc.	
Oxy	
Righthand Canyon 35-7 (12-27-12)	
Date: 1/17/2013	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2013



Groundwater Plot

Oxy Righthand Canyon 35-7 SWD

County
Eddy

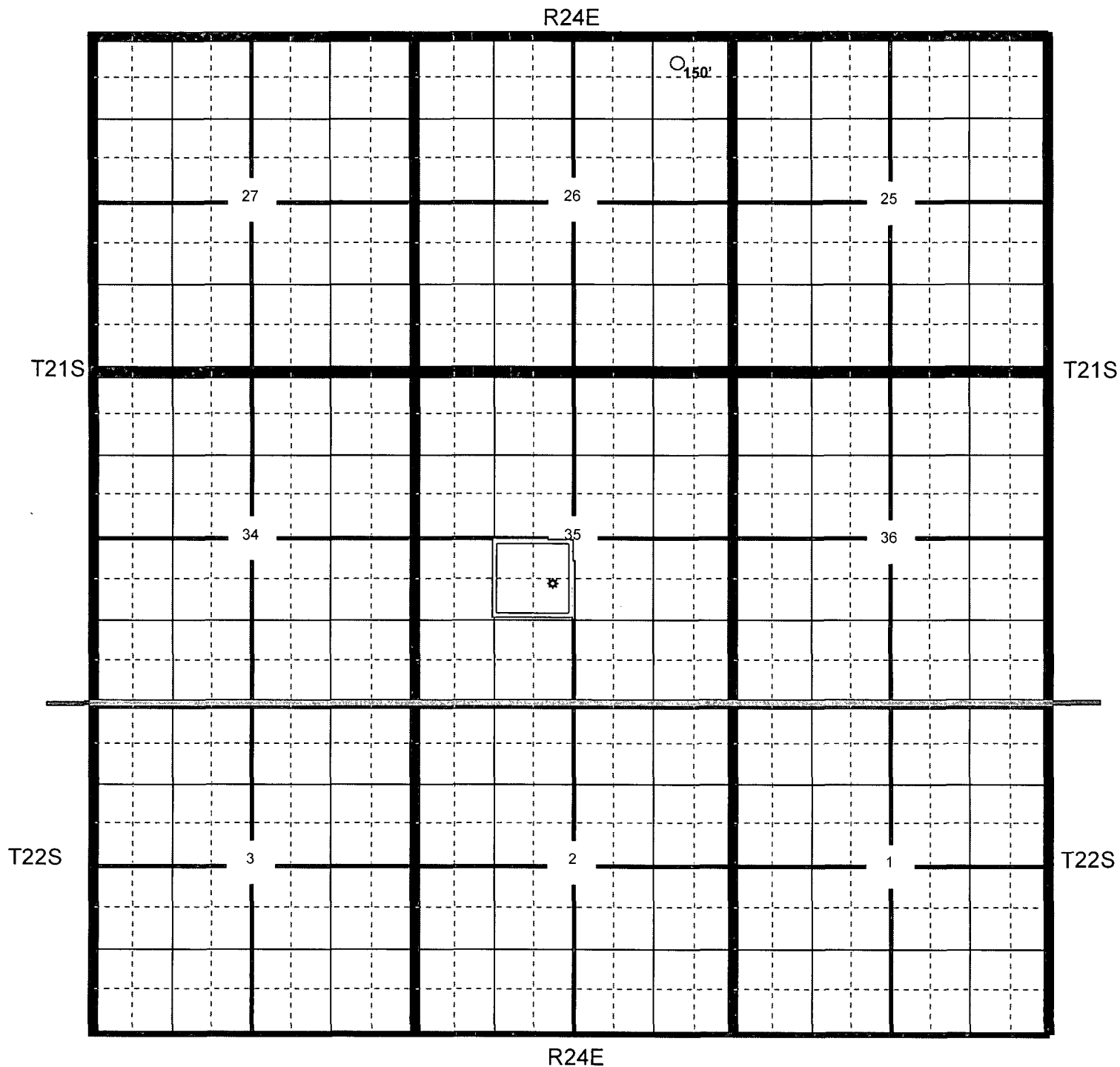
Unit Letter
K

Section
35

Township
21S

Range
24E

Trend Map 75'



★ Location

○ OCD

○ USGS

○ SEO

● All Databases

Oxy Righthand Canyon 35-7 SWD

County
Eddy

Unit Letter
K

Section
35


Township
21S

Range
24E

Trend Map 75'

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 <div>  </div>	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
Righthand Canyon 35-7 SWD**

		Sample	SP1 @ SURFACE	SP1 @ 6"
Analyte	Method	Date	2/5/13	2/5/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		128	32
GRO	TPH 8015M		<50.0	<50.0
DRO	TPH 8015M		6720	11400

		Sample	SP2 @ SURFACE	SP2 @ 6"
Analyte	Method	Date	2/5/13	2/5/13
			mg/Kg	mg/Kg
Chloride	SM4500Cl-B		32	176

		Sample	SP3 @ SURFACE	SP3 @ 6"
Analyte	Method	Date	2/5/13	2/5/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		448	240
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		4820	541

		Sample	SP4 @ SURFACE	SP4 @ 6"
Analyte	Method	Date	2/5/13	2/5/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		400	160
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		4200	229

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

		Sample	SP1B @ 6"	SP1B @ 1'
Analyte	Method	Date	1/3/14	1/3/14
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		762	1700

February 11, 2013

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 02/06/13 8:25.

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.

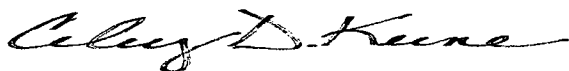
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 02/06/2013
 Reported: 02/11/2013
 Project Name: RIGHT HAND CANYON 35-7 SWD
 Project Number: NONE GIVEN
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 02/05/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H300329-01)

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	02/07/2013	ND	1.94	97.1	2.00	17.9	
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4	
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8	
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0	
Total BTEX	<0.300	0.300	02/07/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/07/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	02/07/2013	ND	221	110	200	20.2		
DRO >C10-C28	6720	50.0	02/07/2013	ND	202	101	200	21.9		

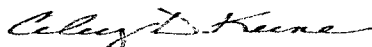
Surrogate: 1-Chlorooctane 74.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 280 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/06/2013
Reported: 02/11/2013
Project Name: RIGHT HAND CANYON 35-7 SWD
Project Number: NONE GIVEN
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 02/05/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 6" (H300329-02)

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	02/07/2013	ND	1.94	97.1	2.00	17.9		
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4		
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8		
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0		
Total BTEX	<0.300	0.300	02/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 123 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/07/2013	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
									S-04

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	<50.0	50.0	02/07/2013	ND	221	110	200	20.2	
DRO >C10-C28	11400	50.0	02/07/2013	ND	202	101	200	21.9	

Surrogate: 1-Chlorooctane 79.7 % 63.2-140

Surrogate: 1-Chlorooctadecane 457 % 63.6-154

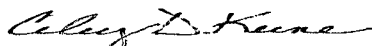
Sample ID: SP 2 @ SURFACE (H300329-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/07/2013	ND	432	108	400	0.00		

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/06/2013
Reported: 02/11/2013
Project Name: RIGHT HAND CANYON 35-7 SWD
Project Number: NONE GIVEN
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 02/05/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 6" (H300329-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/07/2013	ND	432	108	400	0.00	

Sample ID: SP 3 @ SURFACE (H300329-05)

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	02/07/2013	ND	1.94	97.1	2.00	17.9	
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4	
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8	
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0	
Total BTEX	<0.300	0.300	02/07/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	02/07/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/07/2013	ND	221	110	200	20.2		
DRO >C10-C28	4820	10.0	02/07/2013	ND	202	101	200	21.9		

Surrogate: 1-Chlorooctane 83.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 242 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/06/2013	Sampling Date:	02/05/2013
Reported:	02/11/2013	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 @ 6" (H300329-06)

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	02/07/2013	ND	1.94	97.1	2.00	17.9		
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4		
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8		
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0		
Total BTEX	<0.300	0.300	02/07/2013	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/07/2013	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2013	ND	221	110	200	20.2	
DRO >C10-C28	541	10.0	02/07/2013	ND	202	101	200	21.9	

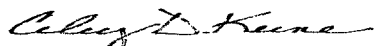
Surrogate: 1-Chlorooctane 85.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 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:	02/06/2013	Sampling Date:	02/05/2013
Reported:	02/11/2013	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 (H300329-07)

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	02/07/2013	ND	1.94	97.1	2.00	17.9		
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4		
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8		
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0		
Total BTEX	<0.300	0.300	02/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	02/07/2013	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/07/2013	ND	221	110	200	20.2		
DRO >C10-C28	4200	10.0	02/07/2013	ND	202	101	200	21.9		

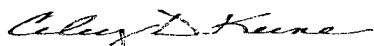
Surrogate: 1-Chlorooctane 83.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 223 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 02/06/2013
 Reported: 02/11/2013
 Project Name: RIGHT HAND CANYON 35-7 SWD
 Project Number: NONE GIVEN
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 02/05/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 6" (H300329-08)

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	02/07/2013	ND	1.94	97.1	2.00	17.9		
Toluene*	<0.050	0.050	02/07/2013	ND	1.96	98.1	2.00	17.4		
Ethylbenzene*	<0.050	0.050	02/07/2013	ND	1.96	97.9	2.00	17.8		
Total Xylenes*	<0.150	0.150	02/07/2013	ND	6.02	100	6.00	17.0		
Total BTEX	<0.300	0.300	02/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/07/2013	ND	448	112	400	3.64	
TPH 8015M		mg/kg		Analyzed By: MS					

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2013	ND	221	110	200	20.2	
DRO >C10-C28	229	10.0	02/07/2013	ND	202	101	200	21.9	

Surrogate: 1-Chlorooctane 80.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

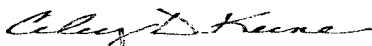
Notes and Definitions

- 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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Celest D. Keene, Lab Director/Quality Manager





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

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Caley D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/07/2014
Reported: 01/13/2014
Project Name: RIGHT HAND CANYON 35
Project Number: NONE GIVEN
Project Location: INDIAN BASIN

Sampling Date: 01/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1B @ 6" (H400040-01)

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	01/10/2014	ND	1.92	96.1	2.00	2.06		
Toluene*	<0.050	0.050	01/10/2014	ND	1.89	94.6	2.00	2.20		
Ethylbenzene*	<0.050	0.050	01/10/2014	ND	1.93	96.4	2.00	2.32		
Total Xylenes*	<0.150	0.150	01/10/2014	ND	5.63	93.8	6.00	2.42		
Total BTEX	<0.300	0.300	01/10/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/08/2014	ND	175	87.7	200	2.38	
DRO >C10-C28	762	10.0	01/08/2014	ND	180	90.1	200	1.19	

Surrogate: 1-Chlorooctane 86.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 01/07/2014
 Reported: 01/13/2014
 Project Name: RIGHT HAND CANYON 35
 Project Number: NONE GIVEN
 Project Location: INDIAN BASIN

 Sampling Date: 01/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1B @ 1' (H400040-02)

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	01/10/2014	ND	1.92	96.1	2.00	2.06		
Toluene*	<0.050	0.050	01/10/2014	ND	1.89	94.6	2.00	2.20		
Ethylbenzene*	<0.050	0.050	01/10/2014	ND	1.93	96.4	2.00	2.32		
Total Xylenes*	<0.150	0.150	01/10/2014	ND	5.63	93.8	6.00	2.42		
Total BTEX	<0.300	0.300	01/10/2014	ND						

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

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/08/2014	ND	175	87.7	200	2.38	
DRO >C10-C28	1700	10.0	01/08/2014	ND	180	90.1	200	1.19	

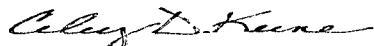
Surrogate: 1-Chlorooctane 84.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 129 % 63.6-154

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Caley D. Keene, Lab Director/Quality Manager

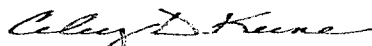
Notes and Definitions

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

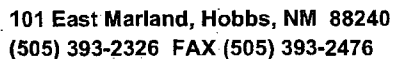
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Celey D. Keene, Lab Director/Quality Manager



121

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Relinquished By: <i>ROGER HERNANDEZ</i>		Date: <i>01-07-14</i>		Received By: <i>Ramon Montoya</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: <i>2:05</i>		Time: <i>2:05</i>		Time: <i>2:05</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: <i>Ramon Montoya</i>		Date: <i>1/7/14</i>		Received By: <i>Jodi Benson</i>		REMARKS:			
Time: <i>8:15</i>		Time: <i>8:15</i>		Time: <i>8:15</i>					
Delivered By: (Circle One) <i>UPS</i>		Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <i>[Signature]</i>					
Sampler - UPS - Bus - Other: <i>2.20</i>									

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

#54

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

NM OIL CONSERVATION
ARTESIA DISTRICT

JUL 22 2014

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

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

Surface Owner	Mineral Owner	Lease No.	API#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	1975	South	2405	West	Eddy County, NM

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	175 bbls	Volume Recovered	0 bbls
Source of Release	Failure in 2" valve on the discharge line	Date and Hour of Occurrence	12/27/2012	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- OCD, James Amos-BLM, Terry Gregston-BLM		
By Whom?	Christopher Jones	Date and Hour	12/27/2012 @ 1:53 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.*

Failure in a 2" valve on the discharge line caused 175 bbls of produce water to leak onto the ground. Fluids were not recoverable. The valve was repaired.

Describe Area Affected and Cleanup Action Taken.*

Failure in a 2" valve on the discharge line caused 175 bbls of produce water to leak onto the ground. Fluids were not recoverable. Remediation will be performed in accordance with an OCD and BLM approved remediation plan.

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.

OIL CONSERVATION DIVISION

Signature:	Approved by District Supervisor:		
Printed Name: Christopher Jones	Approval Date:	Expiration Date:	
Title: HES Specialist	Conditions of Approval:		Attached <input type="checkbox"/>
E-mail Address: Christopher.Jones@oxy.com			
Date: 1-3-13 Phone: (575) 628-4121			

* Attach Additional Sheets If Necessary