

Closure Report

Site Description

Site Name:	Red Tank 28 Federal #3 Battery/ Trunk Line
Company:	Oxy Permian Ltd.
Legal Description:	U/L H, Section 28, T22S, R32E
County:	Lea County, NM
GPS Coordinates:	N 32.36293° W 103.67223°

Release Data

Date of Release:	02/18/2014
Type of Release:	Produced Water
Source of Release:	Compromised 8" poly produced water line
Volume of Release:	2300 bbls
Volume Recovered:	1000 bbls

Remediation Specifications

Remediation Parameters:	Excavate the entire leak area to a depth of 5 feet. Install a 20 mil plastic liner. Backfill the site with clean soil. Comply with all BLM stipulations.	
Remediation Activities:	12/04/2014 to 01/12/2015	
Plan Sent to OCD:	04/28/2014	Meeting between C. Brunson and G. Leking
OCD Approval of Plan:	04/28/2014	Meeting between C. Brunson and G. Leking
Plan Sent to BLM:	04/28/2014	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	05/02/2014	Email from J. Van Curen to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 02/19/2014
Final C-141	Signed 01/22/2015
Site Diagram	February 2014
Groundwater Plot	350'
TOPO Maps	February 2014
Lab Summary	02/28/14-03/03/14, 03/04/14, 03/05/14, 03/19/14, 12/16/14
Lab Analysis	02/28/14-03/03/14, 03/04/14, 03/05/14, 03/19/14, 12/16/14
Correspondence	Request and approval of remediation plan via email

Request for Closure

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

Cliff Brunson, President of BBC International Inc.

02/05/2015

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy USA Inc.	Contact	Austin Tramell
Address	1017 W. Stanolind Rd, Hobbs, NM	Telephone No.	(575) 397-8210
Facility Name	Red Tank 28 Federal #3 Battery	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No. 30-025-31754(nearest well)	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	28	22S	32E					

Latitude N 32.36903° Longitude W 103.67847°

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	2300 bbls	Volume Recovered	1000 bbls
Source of Release	8" Poly produced water line	Date and Hour of Occurrence	02/18/2014	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?	Goeffrey Leking- NMOCD, Jennifer Van Curen- BLM		
By Whom?	Austin Tramell via phone message	Date and Hour	02/18/2014 @ 1:46 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.*

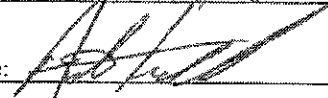
Describe Cause of Problem and Remedial Action Taken.*

A leak in an 8 inch poly produced water line leaked 2300 bbls of produced water onto the ground. Approximately 1000 bbls of produced water were recovered via vacuum truck and the line was repaired.

Describe Area Affected and Cleanup Action Taken.*

The affected area was approximately 90' x 180' and did leave the location area. Remediation will be completed in accordance with a plan approved by both the NMOCD and the BLM.

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

Signature: 	OIL CONSERVATION DIVISION		
Printed Name: Austin Tramell	Approved by District Supervisor:		
Title: HES Coordinator	Approval Date:	Expiration Date:	
E-mail Address: Austin.Tramell@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 2/19/14	Phone: (575) 397-8210		

* Attach Additional Sheets If Necessary

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Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking- NMOCD, Jennifer Van Curen- BLM		
By Whom?	Austin Tramell via phone message	Date and Hour	02/18/2014 @ 1:46 pm		
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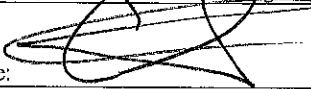
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The affected area was approximately 90' x 180' and did leave the location area. Remediation was completed in accordance with the remediation plan approved by Geoffrey Leking of NMOCD on 04/25/2014 and approved by Jennifer VanCuren of the BLM via email on 05/02/2014.

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.

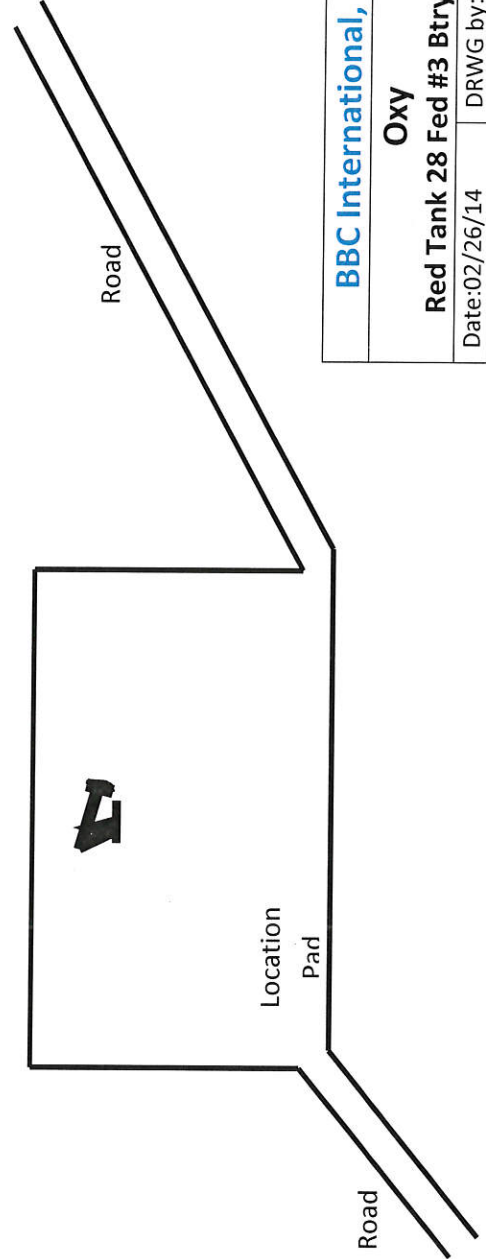
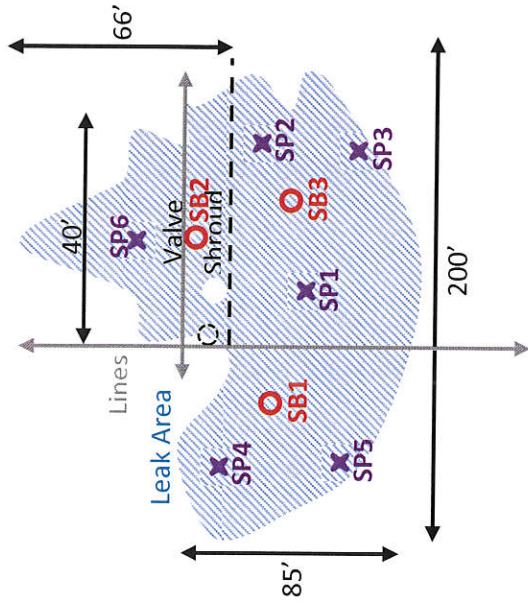
Signature: 	OIL CONSERVATION DIVISION		
Printed Name: Chancey Summers	Approved by District Supervisor:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Chancey_Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 1-22-15	Phone: (575) 397-8210		

* Attach Additional Sheets If Necessary



Oxy

Red Tank 28 Federal #3 Battery 8" Trunk Line



U/L H, Section 28, T22S, R32E at leak
Lea County, NM
GPS at stake: N 32.36293° W 103.67223°

BBC International, Inc.			
Oxy			
Red Tank 28 Fed #3 Btry 8" TL			
Date: 02/26/14	DRWG by: K. Purvis		
NOT TO SCALE		File: Oxy 2014	



Groundwater Plot

Oxy Red Tank 28 Federal #3 SWD Battery

County
Lea

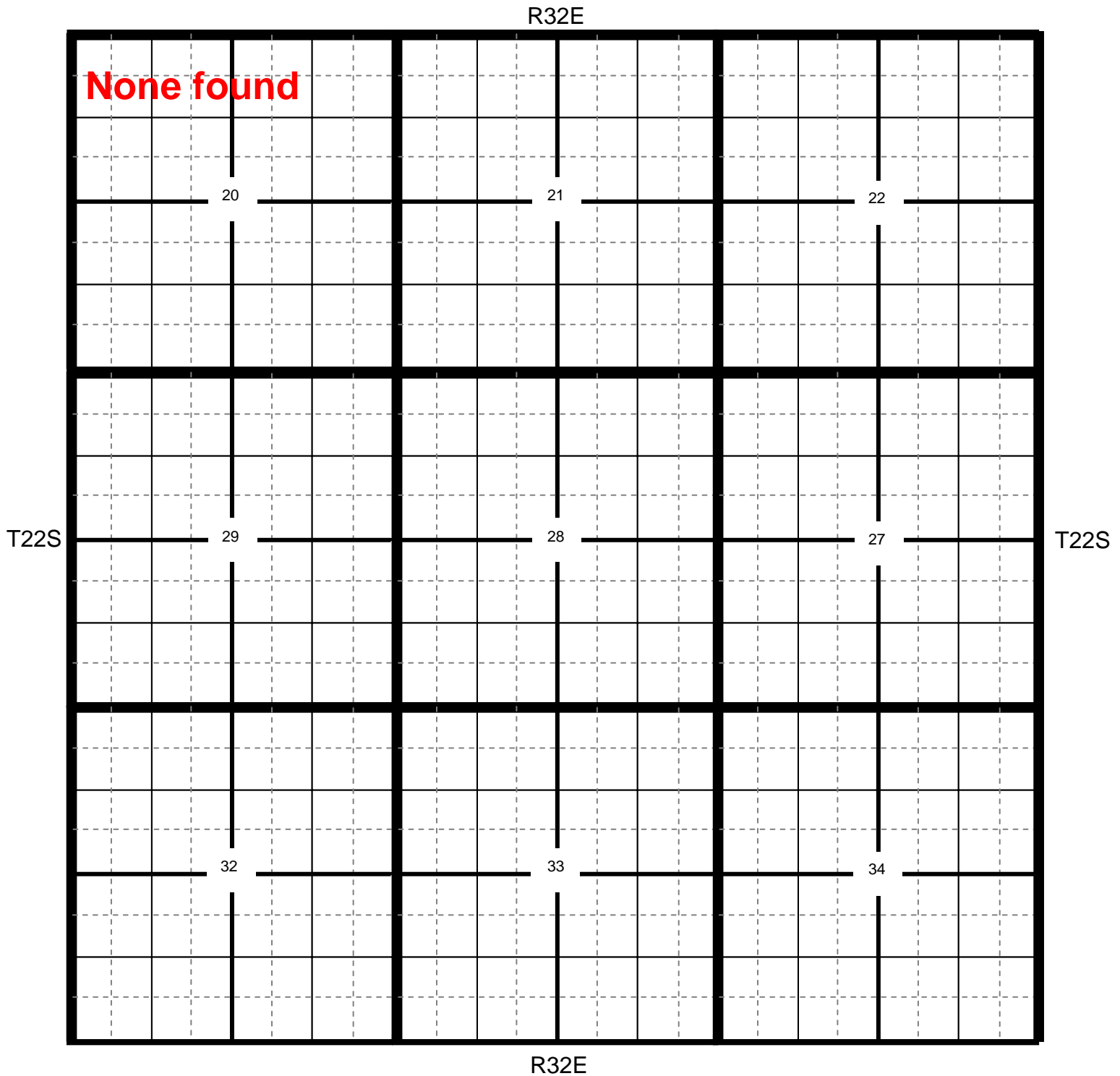
Unit Letter

Section
28

Township
22S

Range
32E

Trend Map 350'



📍 Location

● OCD

● USGS

● SEO

● All Databases

Oxy Red Tank 28 Federal #3 SWD

County Lea Unit Letter Section 28 Township 22S Range 32E

Trend Map 350'

1

2

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

3

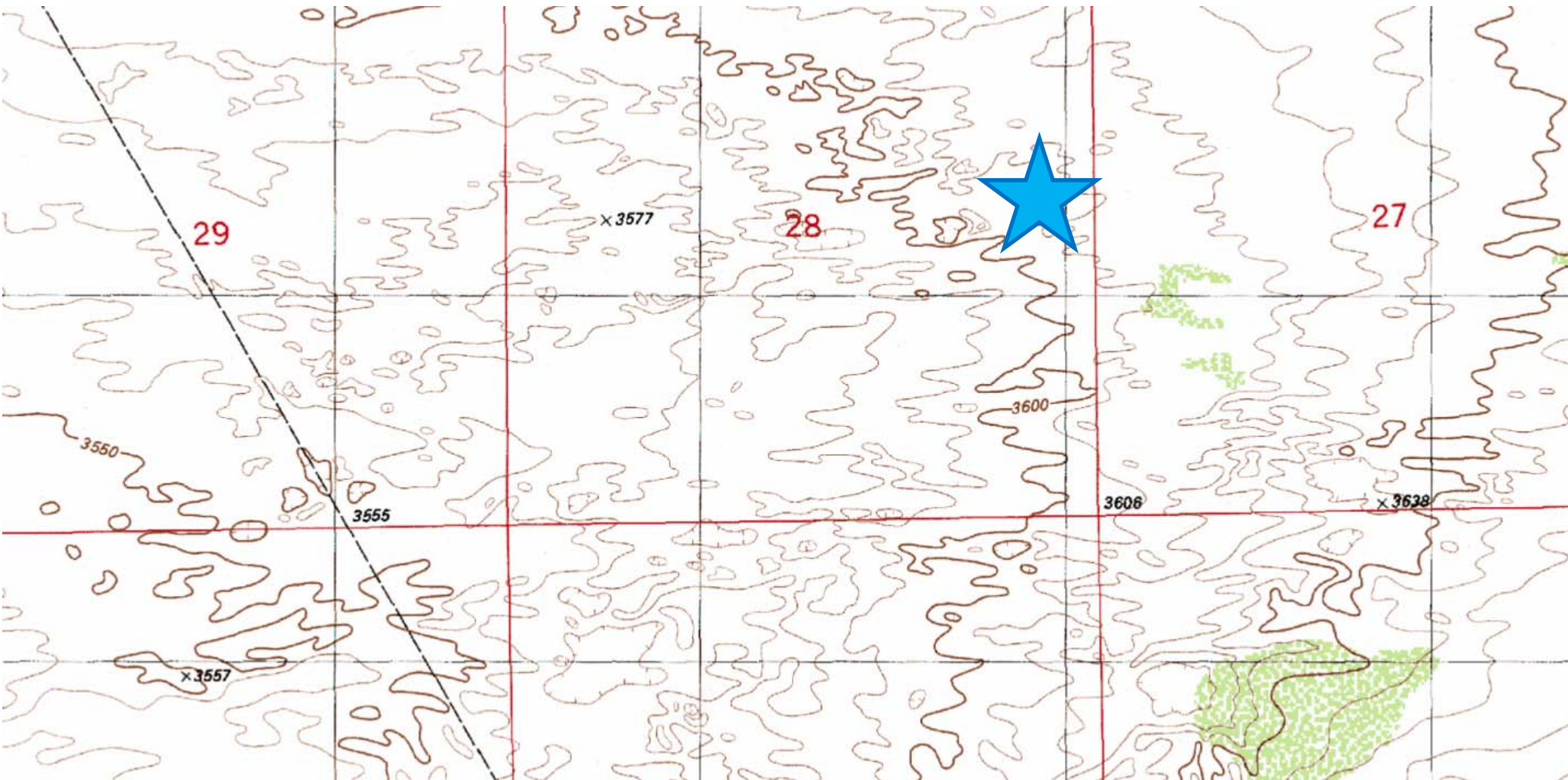
4

BOOTLEG RIDGE QUADRANGLE
NEW MEXICO
7.5 MINUTE SERIES (TOPOGRAPHIC)
SW/4 NAT MESA 15' QUADRANGLE



Oxy

Red Tank 28 Fed #3 SWD Btry



Laboratory Analytical Results Summary
Red Tank 28-3 8" TL

		Sample	SP1 @ Surface	SP1 @ 3'	SP1 @ 5'	SP1 @ 7'	SP1 @ 10'	SP1 @ 13'	SP1 @ 16'
Analyte	Method	Date	2/28/14	2/28/14	2/28/14	2/28/14	2/28/14	3/3/14	3/3/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		0.090	<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		0.063	<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		0.351	<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		0.505	<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		4320	12700	15600	15200	22000	25600	21200
GRO	TPH 8015M		<100	<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		6640	<10.0	<10.0	n/a	n/a	n/a	n/a

		Sample	SP2 @ Surface	SP2 @ 3'	SP2 @ 5'	SP2 @ 7'	SP2 @ 10'	SP2 @ 13'	SP2 @ 16'
Analyte	Method	Date	3/3/14	3/3/14	3/3/14	3/3/14	3/3/14	3/3/14	3/3/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		0.193	<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		0.196	<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		0.935	<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		1.32	<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		22800	7600	19000	20800	25200	9060	8400
GRO	TPH 8015M		81.9	<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		1900	<10.0	<10.0	n/a	n/a	n/a	n/a

		Sample	SP3 @ Surface	SP3 @ 3'	SP3 @ 5'	SP3 @ 7'	SP3 @ 10'	SP3 @ 13'	SP3 @ 15'
Analyte	Method	Date	3/3/14	3/3/14	3/3/14	3/3/14	3/3/14	3/3/14	3/3/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		0.284	<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		0.222	<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		1.19	<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		1.70	<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		4000	7730	21600	21200	25600	11800	9600
GRO	TPH 8015M		193	<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		13300	<10.0	<10.0	n/a	n/a	n/a	n/a

		Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 5'	SP4 @ 7'	SP4 @ 10'	SP4 @ 13'	SP4 @ 16'
Analyte	Method	Date	3/4/14	3/4/14	3/4/14	3/4/14	3/4/14	3/4/14	3/4/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		5360	5440	24400	11100	24000	28400	27600
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a

Laboratory Analytical Results Summary
Red Tank 28-3 8" TL

		Sample	SP5 @ SURFACE	SP5 @ 3'	SP5 @ 5'	SP5 @ 7'	SP5 @ 10'	SP5 @ 13'	SP5 @ 16'
Analyte	Method	Date	3/4/14	3/4/14	3/4/14	3/4/14	3/5/14	3/5/14	3/5/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.100	<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		1.97	<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		1.81	<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		8.65	<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		12.5	<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		8240	38000	6240	5680	8400	24800	26800
GRO	TPH 8015M		1270	<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		21700	<10.0	<10.0	n/a	n/a	n/a	n/a

		Sample	SP6 @ SURFACE	SP6 @ 3'	SP6 @ 5'	SP6 @ 7'	SP6 @ 10'	SP6 @ 13'	SP6 @ 17'
Analyte	Method	Date	3/5/14	3/5/14	3/5/14	3/5/14	3/5/14	3/5/14	3/5/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.200	<0.100	<0.200	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		3.38	0.138	<0.200	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		3.29	0.118	<0.200	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		15.5	2.43	<0.600	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		22.3	2.7	<1.20	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		8660	61600	53600	7360	2640	1680	2000
GRO	TPH 8015M		1190	314	595	n/a	n/a	n/a	n/a
DRO	TPH 8015M		20200	6900	4530	n/a	n/a	n/a	n/a

Laboratory Analytical Results Summary
Red Tank 28 Federal #3 Battery Trunk Line

		Sample	SB1 @ 20'	SB1 @ 30'	SB1 @ 40'	SB1 @ 50'	SB1 @ 60'	SB1 @ 70'
Analyte	Method	Date	3/19/14	3/19/14	3/19/14	3/19/14	3/19/14	3/19/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		18800	5680	4960	496	320	1020

		Sample	SB2 @ 20'	SB2 @ 30'	SB2 @ 40'	SB2 @ 50'	SB2 @ 60'
Analyte	Method	Date	3/19/14	3/19/14	3/19/14	3/19/14	3/19/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		20800	17600	640	368	64

		Sample	SB3 @ 20'	SB3 @ 30'	SB3 @ 40'	SB3 @ 50'	SB3 @ 60'
Analyte	Method	Date	3/19/14	3/19/14	3/19/14	3/19/14	3/19/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		384	1020	1440	800	<16.0

Laboratory Analytical Results Summary
Red Tank 28 Federal #3 Trunk Line

		Sample	Sidewall #1 @ 5'	Sidewall #2 @ 5'	Sidewall #3 @ 5'	Sidewall #4 @ 5'
Analyte	Method	Date	12/16/14	12/16/14	12/16/14	12/16/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		<16.0	<16.0	<16.0	<16.0

March 05, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RED TANK 28 #3 TRUNKLINE

Enclosed are the results of analyses for samples received by the laboratory on 03/04/14 8:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/04/2014	Sampling Date:	02/28/2014
Reported:	03/05/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 1 @ SURFACE (H400642-01)

BTEX 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2014	ND	2.38	119	2.00	1.15	
Toluene*	0.090	0.050	03/05/2014	ND	2.32	116	2.00	0.230	
Ethylbenzene*	0.063	0.050	03/05/2014	ND	2.17	109	2.00	2.08	
Total Xylenes*	0.351	0.150	03/05/2014	ND	6.57	109	6.00	1.83	
Total BTEX	0.505	0.300	03/05/2014	ND					

Surrogate: Dibromofluoromethane 96.0 % 61.3-142

Surrogate: Toluene-d8 97.7 % 71.3-129

Surrogate: 4-Bromofluorobenzene 212 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	03/05/2014	ND	416	104	400	3.77	

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	<100	100	03/05/2014	ND	205	102	200	6.43	
DRO >C10-C28	6640	100	03/05/2014	ND	194	97.0	200	9.21	

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 205 % 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:	03/04/2014	Sampling Date:	02/28/2014
Reported:	03/05/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 1 @ 3' (H400642-02)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2014	ND	2.38	119	2.00	1.15	
Toluene*	<0.050	0.050	03/05/2014	ND	2.32	116	2.00	0.230	
Ethylbenzene*	<0.050	0.050	03/05/2014	ND	2.17	109	2.00	2.08	
Total Xylenes*	<0.150	0.150	03/05/2014	ND	6.57	109	6.00	1.83	
Total BTX	<0.300	0.300	03/05/2014	ND					

Surrogate: Dibromofluoromethane 98.6 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 107 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12700	16.0	03/05/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2014	ND	205	102	200	6.43	
DRO >C10-C28	<10.0	10.0	03/05/2014	ND	194	97.0	200	9.21	

Surrogate: 1-Chlorooctane 86.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.9 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/04/2014	Sampling Date:	02/28/2014
Reported:	03/05/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 1 @ 5' (H400642-03)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2014	ND	2.38	119	2.00	1.15	
Toluene*	<0.050	0.050	03/05/2014	ND	2.32	116	2.00	0.230	
Ethylbenzene*	<0.050	0.050	03/05/2014	ND	2.17	109	2.00	2.08	
Total Xylenes*	<0.150	0.150	03/05/2014	ND	6.57	109	6.00	1.83	
Total BTX	<0.300	0.300	03/05/2014	ND					

Surrogate: Dibromofluoromethane 100 % 61.3-142
Surrogate: Toluene-d8 96.1 % 71.3-129
Surrogate: 4-Bromofluorobenzene 99.7 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15600	16.0	03/05/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2014	ND	205	102	200	6.43	
DRO >C10-C28	<10.0	10.0	03/05/2014	ND	194	97.0	200	9.21	

Surrogate: 1-Chlorooctane 92.6 % 65.2-140
Surrogate: 1-Chlorooctadecane 98.2 % 63.6-154

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

Received:	03/04/2014	Sampling Date:	02/28/2014
Reported:	03/05/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 1 @ 7' (H400642-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	15200	16.0	03/05/2014	ND	416	104	400	3.77		

Sample ID: SP 1 @ 10' (H400642-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22000	16.0	03/05/2014	ND	416	104	400	3.77	

Sample ID: SP 1 @ 13' (H400642-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25600	16.0	03/05/2014	ND	416	104	400	3.77	

Sample ID: SP 1 @ 16' (H400642-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	21200	16.0	03/05/2014	ND	416	104	400	3.77		

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Received:	03/04/2014	Sampling Date:	03/03/2014
Reported:	03/05/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 2 @ SURFACE (H400642-08)

BTEx 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2014	ND	2.38	119	2.00	1.15	
Toluene*	0.193	0.050	03/05/2014	ND	2.32	116	2.00	0.230	
Ethylbenzene*	0.196	0.050	03/05/2014	ND	2.17	109	2.00	2.08	
Total Xylenes*	0.935	0.150	03/05/2014	ND	6.57	109	6.00	1.83	
Total BTEX	1.32	0.300	03/05/2014	ND					

Surrogate: Dibromofluoromethane 101 % 61.3-142
Surrogate: Toluene-d8 102 % 71.3-129
Surrogate: 4-Bromofluorobenzene 204 % 65.7-141

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22800	16.0	03/05/2014	ND	416	104	400	3.77	

TPH 8015M			mg/kg					Analyzed By: ms	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	81.9	50.0	03/05/2014	ND	205	102	200	6.43	
DRO >C10-C28	1900	50.0	03/05/2014	ND	194	97.0	200	9.21	

Surrogate: 1-Chlorooctane 105 % 65.2-140
Surrogate: 1-Chlorooctadecane 129 % 63.6-154

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Received:	03/04/2014	Sampling Date:	03/03/2014
Reported:	03/05/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 2 @ 3' (H400642-09)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2014	ND	2.38	119	2.00	1.15	
Toluene*	<0.050	0.050	03/05/2014	ND	2.32	116	2.00	0.230	
Ethylbenzene*	<0.050	0.050	03/05/2014	ND	2.17	109	2.00	2.08	
Total Xylenes*	<0.150	0.150	03/05/2014	ND	6.57	109	6.00	1.83	
Total BTX	<0.300	0.300	03/05/2014	ND					

Surrogate: Dibromofluoromethane 101 % 61.3-142
Surrogate: Toluene-d8 98.8 % 71.3-129
Surrogate: 4-Bromofluorobenzene 111 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	03/05/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2014	ND	205	102	200	6.43	
DRO >C10-C28	<10.0	10.0	03/05/2014	ND	194	97.0	200	9.21	

Surrogate: 1-Chlorooctane 98.8 % 65.2-140
Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Received:	03/04/2014	Sampling Date:	03/03/2014
Reported:	03/05/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 2 @ 5' (H400642-10)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2014	ND	2.38	119	2.00	1.15	
Toluene*	<0.050	0.050	03/05/2014	ND	2.32	116	2.00	0.230	
Ethylbenzene*	<0.050	0.050	03/05/2014	ND	2.17	109	2.00	2.08	
Total Xylenes*	<0.150	0.150	03/05/2014	ND	6.57	109	6.00	1.83	
Total BTX	<0.300	0.300	03/05/2014	ND					

Surrogate: Dibromofluoromethane 101 % 61.3-142
Surrogate: Toluene-d8 98.5 % 71.3-129
Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19000	16.0	03/05/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2014	ND	205	102	200	6.43	
DRO >C10-C28	<10.0	10.0	03/05/2014	ND	194	97.0	200	9.21	

Surrogate: 1-Chlorooctane 99.5 % 65.2-140
Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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Cliff Brunson
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Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	03/04/2014	Sampling Date:	03/03/2014
Reported:	03/05/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 2 @ 7' (H400642-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	20800	16.0	03/05/2014	ND	416	104	400	3.77		

Sample ID: SP 2 @ 10' (H400642-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25200	16.0	03/05/2014	ND	416	104	400	3.77	

Sample ID: SP 2 @ 13' (H400642-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9060	16.0	03/05/2014	ND	416	104	400	3.77		

Sample ID: SP 2 @ 16' (H400642-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	03/05/2014	ND	416	104	400	3.77	

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Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	03/04/2014	Sampling Date:	03/03/2014
Reported:	03/05/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 3 @ SURFACE (H400642-15)

BTX 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2014	ND	2.38	119	2.00	1.15	
Toluene*	0.284	0.050	03/05/2014	ND	2.32	116	2.00	0.230	
Ethylbenzene*	0.222	0.050	03/05/2014	ND	2.17	109	2.00	2.08	
Total Xylenes*	1.19	0.150	03/05/2014	ND	6.57	109	6.00	1.83	
Total BTX	1.70	0.300	03/05/2014	ND					

Surrogate: Dibromofluoromethane 97.9 % 61.3-142
Surrogate: Toluene-d8 98.3 % 71.3-129
Surrogate: 4-Bromofluorobenzene 318 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	03/05/2014	ND	416	104	400	3.77	

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	193	100	03/05/2014	ND	205	102	200	6.43	
DRO >C10-C28	13300	100	03/05/2014	ND	194	97.0	200	9.21	

Surrogate: 1-Chlorooctane 154 % 65.2-140
Surrogate: 1-Chlorooctadecane 356 % 63.6-154

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

Received:	03/04/2014	Sampling Date:	03/03/2014
Reported:	03/05/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 3 @ 3' (H400642-16)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2014	ND	2.38	119	2.00	1.15	
Toluene*	<0.050	0.050	03/05/2014	ND	2.32	116	2.00	0.230	
Ethylbenzene*	<0.050	0.050	03/05/2014	ND	2.17	109	2.00	2.08	
Total Xylenes*	<0.150	0.150	03/05/2014	ND	6.57	109	6.00	1.83	
Total BTX	<0.300	0.300	03/05/2014	ND					

Surrogate: Dibromofluoromethane 98.0 % 61.3-142

Surrogate: Toluene-d8 97.7 % 71.3-129

Surrogate: 4-Bromofluorobenzene 116 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7730	16.0	03/05/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2014	ND	205	102	200	6.43	
DRO >C10-C28	<10.0	10.0	03/05/2014	ND	194	97.0	200	9.21	

Surrogate: 1-Chlorooctane 93.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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Received:	03/04/2014	Sampling Date:	03/03/2014
Reported:	03/05/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 3 @ 5' (H400642-17)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2014	ND	2.38	119	2.00	1.15	
Toluene*	<0.050	0.050	03/05/2014	ND	2.32	116	2.00	0.230	
Ethylbenzene*	<0.050	0.050	03/05/2014	ND	2.17	109	2.00	2.08	
Total Xylenes*	<0.150	0.150	03/05/2014	ND	6.57	109	6.00	1.83	
Total BTX	<0.300	0.300	03/05/2014	ND					

Surrogate: Dibromofluoromethane 103 % 61.3-142

Surrogate: Toluene-d8 99.8 % 71.3-129

Surrogate: 4-Bromofluorobenzene 108 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21600	16.0	03/05/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2014	ND	205	102	200	6.43	
DRO >C10-C28	<10.0	10.0	03/05/2014	ND	194	97.0	200	9.21	

Surrogate: 1-Chlorooctane 99.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/04/2014	Sampling Date:	03/03/2014
Reported:	03/05/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 3 @ 7' (H400642-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	21200	16.0	03/05/2014	ND	416	104	400	3.77		

Sample ID: SP 3 @ 10' (H400642-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25600	16.0	03/05/2014	ND	416	104	400	3.77	

Sample ID: SP 3 @ 13' (H400642-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11800	16.0	03/05/2014	ND	416	104	400	3.77	

Sample ID: SP 3 @ 15 (H400642-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	03/05/2014	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BCB International, Inc.		P.O. #:		BILL TO										ANALYSIS REQUEST									
Project Manager: Cliff Brunson		Company:																					
Address: P.O. Box 805		Attn:																					
City: Hobbs		Address:																					
Phone #: 575-397-6388		City:																					
Fax #: 575-397-0397		State:																					
Project #:		Zip:																					
Project Name: Red Tail 28-3 8" TL		Project Owner: OXY																					
Project Location: Mills Ranch		Phone #:																					
Sample Name: Left Driveway		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													
H400642		Spole Surface		G		1		X		X		X		CL-									
1		3		G		1		X		X		X		TPH									
2		5'		G		1		X		X		X		BTEX									
3		7'		G		1		X		X		X											
4		10'		G		1		X		X		X											
5		13'		G		1		X		X		X											
6		16'		G		1		X		X		X											
7		19'		G		1		X		X		X											
8		22'		G		1		X		X		X											
9		25'		G		1		X		X		X											
10		28'		G		1		X		X		X											

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Relinquished By: [Signature]	Date: 3/31/14	Received By: [Signature]	Date: 3/31/14
Refiniquished By: [Signature]	Date: 3/31/14	Received By: [Signature]	Date: 3/31/14
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 4.60c	Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: [Signature]	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Add'l Fax #: REMARKS: Rush



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. **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: Same	
Project #:	Project Owner: OH	City:	
Project Name: Red Tank 28-3 01 TL	State:	Zip:	
Project Location: Mills Ranch	Phone #:		
Sample Name: Left Channels	Fax #:		

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE												
11	SP2C 7'1"	G	1	X						3.3	1.31	X								
12	10'1"	G	1	X							2.22	X								
13	13'1"	G	1	X							3.07	X								
14	16'1"	G	1	X							3.15	X								
15	SP30S 6'1"	G	1	X							3.18	X								
16	3'1"	G	1	X							3.25	X								
17	5'1"	G	1	X							3.30	X								
18	7'1"	G	1	X							3.34	X								
19	10'1"	G	1	X							3.36	X								
20	13'1"	G	1	X							3.43	X								

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Relinquished By:	Date: 2/3/14	Received By:	Date: 2/3/14	Phone Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Type: 3.00m	Received By:	Type: 3.00m	Fax Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Date: 2/3/14	Sample Condition	CHECKED BY: (initials)			
Sampler - UPS - Bus - Other:	Time: 2:45pm	Cool Intact	4.62			
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				

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

#54

March 06, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RED TANK 28 #3 TRUNKLINE

Enclosed are the results of analyses for samples received by the laboratory on 03/05/14 8:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/05/2014	Sampling Date:	03/04/2014
Reported:	03/06/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 4 @ 1' (H400662-01)

BTEX 8260B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2014	ND	2.24	112	2.00	0.979	
Toluene*	<0.050	0.050	03/05/2014	ND	2.33	117	2.00	0.332	
Ethylbenzene*	<0.050	0.050	03/05/2014	ND	2.28	114	2.00	2.39	
Total Xylenes*	<0.150	0.150	03/05/2014	ND	6.91	115	6.00	1.92	
Total BTEX	<0.300	0.300	03/05/2014	ND					

Surrogate: Dibromofluoromethane 95.9 % 61.3-142

Surrogate: Toluene-d8 105 % 71.3-129

Surrogate: 4-Bromofluorobenzene 106 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	03/06/2014	ND	432	108	400	7.69	

TPH 8015M			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2014	ND	208	104	200	7.01	
DRO >C10-C28	<10.0	10.0	03/05/2014	ND	204	102	200	6.86	

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/05/2014	Sampling Date:	03/04/2014
Reported:	03/06/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 4 @ 3' (H400662-02)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2014	ND	2.24	112	2.00	0.979	
Toluene*	<0.050	0.050	03/05/2014	ND	2.33	117	2.00	0.332	
Ethylbenzene*	<0.050	0.050	03/05/2014	ND	2.28	114	2.00	2.39	
Total Xylenes*	<0.150	0.150	03/05/2014	ND	6.91	115	6.00	1.92	
Total BTX	<0.300	0.300	03/05/2014	ND					

Surrogate: Dibromofluoromethane 95.0 % 61.3-142

Surrogate: Toluene-d8 105 % 71.3-129

Surrogate: 4-Bromofluorobenzene 106 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	03/06/2014	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2014	ND	208	104	200	7.01	
DRO >C10-C28	<10.0	10.0	03/05/2014	ND	204	102	200	6.86	

Surrogate: 1-Chlorooctane 100 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/05/2014	Sampling Date:	03/04/2014
Reported:	03/06/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 4 @ 5' (H400662-03)

BTEx 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2014	ND	2.24	112	2.00	0.979	
Toluene*	<0.050	0.050	03/05/2014	ND	2.33	117	2.00	0.332	
Ethylbenzene*	<0.050	0.050	03/05/2014	ND	2.28	114	2.00	2.39	
Total Xylenes*	<0.150	0.150	03/05/2014	ND	6.91	115	6.00	1.92	
Total BTEx	<0.300	0.300	03/05/2014	ND					

Surrogate: Dibromofluoromethane 95.1 % 61.3-142
Surrogate: Toluene-d8 101 % 71.3-129
Surrogate: 4-Bromofluorobenzene 255 % 65.7-141

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24400	16.0	03/06/2014	ND	432	108	400	7.69	

TPH 8015M			mg/kg					Analyzed By: ms	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2014	ND	208	104	200	7.01	
DRO >C10-C28	<10.0	10.0	03/05/2014	ND	204	102	200	6.86	

Surrogate: 1-Chlorooctane 93.4 % 65.2-140
Surrogate: 1-Chlorooctadecane 99.7 % 63.6-154

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 03/05/2014
Reported: 03/06/2014
Project Name: RED TANK 28 #3 TRUNKLINE
Project Number: NONE GIVEN
Project Location: MILLS RANCH

Sampling Date: 03/04/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ 7' (H400662-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11100	16.0	03/06/2014	ND	432	108	400	7.69	

Sample ID: SP 4 @ 10' (H400662-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24000	16.0	03/06/2014	ND	432	108	400	7.69	

Sample ID: SP 4 @ 13' (H400662-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28400	16.0	03/06/2014	ND	432	108	400	7.69	

Sample ID: SP 4 @ 16' (H400662-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	27600	16.0	03/06/2014	ND	432	108	400	7.69	

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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

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.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs State: NM Zip: 88241

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

Project #: Project Owner: Oxy

Project Name: Red tank 28 #3

Project Location: C-29

Sampler Name: Gary Ray

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Hydrocarbon
1 SP4 @ 2ft
2 SP4 @ 3ft
3 SP4 @ 5ft
4 SP4 @ 9ft
5 SP4 @ 10ft
6 SP4 @ 17ft
7 SP4 @ 16ft

(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	SAMPLING
		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :		
							ACID/BASE:		
							ICE / COOL		
							OTHER :		

DATE TIME
3-4-14 10:00
3-4-14 10:38
3-4-14 11:15
3-4-14 11:44
3-4-14 12:32
3-4-14 1:07
3-4-14 1:30

CL-
TPH
B-TPX

BILL TO

ANALYSIS REQUEST

P.O. #:

Company:

Attn:

Address:

City: State: Zip:

Phone #:

Fax #:

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Received By:

Relinquished By:

3/5/14
3:30 PM
Cliff Brunson

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

5.80

Sample Condition
Cool ☒ Intact ☒
Yes ☒ No ☐

CHECKED BY: (Initials)

5.80

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

REMARKS:

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

#54

March 07, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RED TANK 28 #3 TRUNKLINE

Enclosed are the results of analyses for samples received by the laboratory on 03/06/14 11:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Mike Snyder

Organic Supervisor

Analytical Results For:

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

Received:	03/06/2014	Sampling Date:	03/04/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 5 @ SURFACE (H400687-01)

BTEX 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	03/07/2014	ND	2.09	105	2.00	1.05	
Toluene*	1.97	0.100	03/07/2014	ND	2.10	105	2.00	4.70	
Ethylbenzene*	1.81	0.100	03/07/2014	ND	2.00	99.8	2.00	4.92	
Total Xylenes*	8.65	0.300	03/07/2014	ND	6.05	101	6.00	5.87	
Total BTEX	12.5	0.600	03/07/2014	ND					

Surrogate: Dibromofluoromethane 93.6 % 61.3-142

Surrogate: Toluene-d8 110 % 71.3-129

Surrogate: 4-Bromofluorobenzene 304 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8240	16.0	03/07/2014	ND	416	104	400	3.77	

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	1270	200	03/07/2014	ND	194	97.1	200	8.76	
DRO >C10-C28	21700	200	03/07/2014	ND	232	116	200	7.85	

Surrogate: 1-Chlorooctane 168 % 65.2-140

Surrogate: 1-Chlorooctadecane 661 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	03/06/2014	Sampling Date:	03/04/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 5 @ 3' (H400687-02)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2014	ND	2.09	105	2.00	1.05	
Toluene*	<0.050	0.050	03/07/2014	ND	2.10	105	2.00	4.70	
Ethylbenzene*	<0.050	0.050	03/07/2014	ND	2.00	99.8	2.00	4.92	
Total Xylenes*	<0.150	0.150	03/07/2014	ND	6.05	101	6.00	5.87	
Total BTX	<0.300	0.300	03/07/2014	ND					

Surrogate: Dibromofluoromethane 95.8 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 110 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	38000	16.0	03/07/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/07/2014	ND	194	97.1	200	8.76	
DRO >C10-C28	<10.0	10.0	03/07/2014	ND	232	116	200	7.85	
EXT DRO >C28-C35	<10.0	10.0	03/07/2014	ND					
Total TPH C6-C28	<10.0	10.0	03/07/2014	ND	427	107	400	8.26	

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	03/06/2014	Sampling Date:	03/04/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 5 @ 5' (H400687-03)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2014	ND	2.09	105	2.00	1.05	
Toluene*	<0.050	0.050	03/07/2014	ND	2.10	105	2.00	4.70	
Ethylbenzene*	<0.050	0.050	03/07/2014	ND	2.00	99.8	2.00	4.92	
Total Xylenes*	<0.150	0.150	03/07/2014	ND	6.05	101	6.00	5.87	
Total BTX	<0.300	0.300	03/07/2014	ND					

Surrogate: Dibromofluoromethane 94.9 % 61.3-142

Surrogate: Toluene-d8 105 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6240	16.0	03/07/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/07/2014	ND	194	97.1	200	8.76	
DRO >C10-C28	<10.0	10.0	03/07/2014	ND	232	116	200	7.85	

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	03/06/2014	Sampling Date:	03/04/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 5 @ 7' (H400687-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5680	16.0	03/07/2014	ND	416	104	400	3.77		

Sample ID: SP 5 @ 10' (H400687-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	03/07/2014	ND	416	104	400	3.77	

Sample ID: SP 5 @ 13' (H400687-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24800	16.0	03/07/2014	ND	416	104	400	3.77	

Sample ID: SP 5 @ 16' (H400687-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	26800	16.0	03/07/2014	ND	416	104	400	3.77		

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

Received:	03/06/2014	Sampling Date:	03/05/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 6 @ SURFACE (H400687-08)

BTX 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	03/07/2014	ND	2.09	105	2.00	1.05	
Toluene*	3.38	0.200	03/07/2014	ND	2.10	105	2.00	4.70	
Ethylbenzene*	3.29	0.200	03/07/2014	ND	2.00	99.8	2.00	4.92	
Total Xylenes*	15.5	0.600	03/07/2014	ND	6.05	101	6.00	5.87	
Total BTX	22.3	1.20	03/07/2014	ND					

Surrogate: Dibromofluoromethane 93.9 % 61.3-142
Surrogate: Toluene-d8 110 % 71.3-129
Surrogate: 4-Bromofluorobenzene 279 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8660	16.0	03/07/2014	ND	416	104	400	3.77	
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	1190	200	03/07/2014	ND	194	97.1	200	8.76	
DRO >C10-C28	20200	200	03/07/2014	ND	232	116	200	7.85	

Surrogate: 1-Chlorooctane 141 % 65.2-140
Surrogate: 1-Chlorooctadecane 647 % 63.6-154

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	03/06/2014	Sampling Date:	03/05/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 6 @ 3' (H400687-09)

BTX 8260B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	03/07/2014	ND	2.09	105	2.00	1.05	
Toluene*	0.138	0.100	03/07/2014	ND	2.10	105	2.00	4.70	
Ethylbenzene*	0.118	0.100	03/07/2014	ND	2.00	99.8	2.00	4.92	
Total Xylenes*	2.43	0.300	03/07/2014	ND	6.05	101	6.00	5.87	
Total BTX	2.70	0.600	03/07/2014	ND					

Surrogate: Dibromofluoromethane 98.6 % 61.3-142
Surrogate: Toluene-d8 105 % 71.3-129
Surrogate: 4-Bromofluorobenzene 214 % 65.7-141

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	61600	16.0	03/07/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg	Analyzed By: ms					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	314	200	03/07/2014	ND	194	97.1	200	8.76	
DRO >C10-C28	6900	200	03/07/2014	ND	232	116	200	7.85	

Surrogate: 1-Chlorooctane 124 % 65.2-140
Surrogate: 1-Chlorooctadecane 215 % 63.6-154

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	03/06/2014	Sampling Date:	03/05/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 6 @ 5' (H400687-10)

BTEx 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	03/07/2014	ND	2.09	105	2.00	1.05		
Toluene*	<0.200	0.200	03/07/2014	ND	2.10	105	2.00	4.70		
Ethylbenzene*	<0.200	0.200	03/07/2014	ND	2.00	99.8	2.00	4.92		
Total Xylenes*	<0.600	0.600	03/07/2014	ND	6.05	101	6.00	5.87		
Total BTEX	<1.20	1.20	03/07/2014	ND						

Surrogate: Dibromofluoromethane 98.3 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 110 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	53600	16.0	03/07/2014	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	595	200	03/07/2014	ND	194	97.1	200	8.76	
DRO >C10-C28	4530	200	03/07/2014	ND	232	116	200	7.85	

Surrogate: 1-Chlorooctane 127 % 65.2-140

Surrogate: 1-Chlorooctadecane 166 % 63.6-154

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	03/06/2014	Sampling Date:	03/05/2014
Reported:	03/07/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 6 @ 7' (H400687-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7360	16.0	03/07/2014	ND	416	104	400	3.92		

Sample ID: SP 6 @ 10' (H400687-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	03/07/2014	ND	416	104	400	3.92	

Sample ID: SP 6 @ 13' (H400687-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	03/07/2014	ND	416	104	400	3.92	

Sample ID: SP 6 @ 17' (H400687-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	03/07/2014	ND	416	104	400	3.92		

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Mike Snyder, Organic Supervisor

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder, Organic Supervisor



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

rustling

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

March 31, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RED TANK 28 FEDERAL #3 BATTERY TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 03/25/14 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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/25/2014	Sampling Date:	03/19/2014
Reported:	03/31/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #3 BATTERY TRI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SB 1 @ 20' (H400874-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18800	16.0	03/28/2014	ND	416	104	400	3.77	

Sample ID: SB 1 @ 30' (H400874-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	03/28/2014	ND	416	104	400	3.77	

Sample ID: SB 1 @ 40' (H400874-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	03/28/2014	ND	416	104	400	3.77	

Sample ID: SB 1 @ 50' (H400874-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	03/28/2014	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/25/2014	Sampling Date:	03/19/2014
Reported:	03/31/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #3 BATTERY TRI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SB 1 @ 60' (H400874-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/28/2014	ND	416	104	400	3.77	

Sample ID: SB 1 @ 70' (H400874-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	03/28/2014	ND	416	104	400	3.77	

Sample ID: SB 2 @ 20' (H400874-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20800	16.0	03/28/2014	ND	416	104	400	3.77	

Sample ID: SB 2 @ 30' (H400874-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17600	16.0	03/28/2014	ND	416	104	400	3.77	

Sample ID: SB 2 @ 40' (H400874-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	03/28/2014	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/25/2014	Sampling Date:	03/19/2014
Reported:	03/31/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #3 BATTERY TRI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SB 2 @ 50' (H400874-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	03/28/2014	ND	416	104	400	3.77		

Sample ID: SB 2 @ 60' (H400874-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/28/2014	ND	416	104	400	3.77	

Sample ID: SB 3 @ 20' (H400874-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	03/28/2014	ND	416	104	400	3.77		

Sample ID: SB 3 @ 30' (H400874-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	03/28/2014	ND	416	104	400	3.77		

Sample ID: SB 3 @ 40' (H400874-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	03/28/2014	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/25/2014	Sampling Date:	03/19/2014
Reported:	03/31/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #3 BATTERY TRI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SB 3 @ 50' (H400874-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	03/28/2014	ND	416	104	400	3.77		

Sample ID: SB 3 @ 60' (H400874-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2014	ND	416	104	400	3.77	

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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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

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:

Project #:

Project Owner: Oxy

City:

Project Name: Red Tank 28 Federal #3 Battery Trunk Line

State: Zip:

Project Location: Lea County, NM

Phone #:

Sampler Name: Jeff Ornelas

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H400874

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

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SB3 @ 60'

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#54



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

December 19, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RED TANK 28 FEDERAL #3 TRUNKLINE

Enclosed are the results of analyses for samples received by the laboratory on 12/17/14 9:20.

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.

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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:	12/17/2014	Sampling Date:	12/16/2014
Reported:	12/19/2014	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #3 TRUNKLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SIDEWALL #1 @ 5' (H403836-01)

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	12/17/2014	ND	416	104	400	0.00	

Sample ID: SIDEWALL #2 @ 5' (H403836-02)

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	12/17/2014	ND	416	104	400	0.00	

Sample ID: SIDEWALL #3 @ 5' (H403836-03)

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	12/17/2014	ND	416	104	400	0.00	

Sample ID: SIDEWALL #4 @ 5' (H403836-04)

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	12/17/2014	ND	416	104	400	0.00	

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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

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

P.O. #:

Company:

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

MATRIX

PRESERV

SAMPLING

Lab I.D.

Sample I.D.

H403836

SIDEWALL # 105'

205'

305'

405'

505'

605'

705'

805'

905'

1005'

1105'

1205'

1305'

1405'

1505'

1605'

1705'

1805'

1905'

2005'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE TIME

12/16/14 1:00

12/16/14 1:10

12/16/14 1:20

12/16/14 1:30

12/16/14 1:40

12/16/14 1:50

12/16/14 2:00

12/16/14 2:10

12/16/14 2:20

12/16/14 2:30

12/16/14 2:40

12/16/14 2:50

12/16/14 3:00

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 analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Phone Result:

Fax Result:

REMARKS:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Phone Result:

Fax Result:

REMARKS:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

CHECKED BY:

Phone Result:

Fax Result:

REMARKS:

REMARKS:

REMARKS:

REMARKS:

REMARKS:

REMARKS:

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

Kathy Purvis

From: Cliff P. Brunson <cbrunson@bbcinternational.com>
Sent: Monday, April 28, 2014 8:45 AM
To: Geoffrey Leking
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY-Red Tank 28 Federal #3 Battery 8" Trunk Line-Remediation Plan
Attachments: Remediation Packet, Red Tank 28 Fed #3 Btry 8 inch TL.pdf

Geoff,

This e-mail is to confirm our conversation on April 25, 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 4 feet in the entire leak area that is depicted on the attached site diagram and then install a 20 mil plastic liner. 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
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Kathy Purvis

From: Van Curen, Jennifer <jvancure@blm.gov>
Sent: Friday, May 02, 2014 8:00 AM
To: Cliff P. Brunson
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Re: OXY-Red Tank 28 Federal #3 Battery 8" Trunk Line-Remediation Plan

Cliff,

Plan is approved with the following stipulations:

1. Minimum of 5' removal of contaminants.
2. Trench 3' for liner to be keyed down to hold in place. Side samples will need to be verified.**
3. Shape removal area so water will shed off liner (convex).
4. Minimum of a 40 mil liner will be used due to deep root vegetation in area.
5. Two feet can be caliche on liner which should also follow the convex shape to shed water.
6. There will need to be at least 3' of like soils. This will be sand (coarse to medium coarse).
7. Photos will need to be taken at each interval to verify work completed.

**titrations can be completed in the field until cls are found to be below 500 ppm at bottom on sides. Verification from lab will need to be completed for BLM records.

If you have any questions please get back to me. Thanks.

JENNIFER E VAN CUREN
ENVIRONMENTAL PROTECTION SPECIALIST
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"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 28, 2014 at 5:32 PM, Cliff P. Brunson <cbrunson@bbcinternational.com> wrote:
Jennifer,

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

will excavate to a depth of 4 feet in the entire leak area as depicted on the attached site diagram. A 20 mil plastic liner will then be installed in the excavation area and 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

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