# **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 Excavate the entire leak area to a depth of 5 feet. Install a 20 Parameters: mil plastic liner. Backfill the site with clean soil. Comply with all BLM stipulations.									
Remediation Activities:	12/04/2014 to 0	1/12/2015							
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

# 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

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

					STILL I	0,11110/1						
			Rel	ease Notifi	catio	on and Co	orrective A	ction	1			
						<b>OPERA</b>	TOR		🛛 Initi	al Report		Final Report
Name of Co		Oxy USA It					Austin Tramell					
		tanolind Rd,				Telephone 1	······································	7-8210				
		ank 28 Fede	rai #3 Ba	utery	l	Facility Typ	be Battery					
Surface Ow	ner BLI	M		Mineral C	Owner				API No	. 30-025-3	1754(r	carest well)
				LOC	TIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		VSouth Line	Feet from the	East/V	West Line	County	***	
		22.0			ĺ							
L	28	225	32E	<u> </u>				1				
			I	.atitude <u>N 32.3</u>	<u>6903°</u>	Longitu	de <u>W 103.6784</u>	<u>7°</u>				
				NAT	TRF	OF REL	FASE					
Type of Rele	ase Produ	iced Water		4 TO R.A.		Volume of		bls	Volume I	Recovered	1000 E	bls
Source of Re	lease 8" Po	ly produced w	vater line			Date and H	our of Occurrenc			Hour of Dis		
Was Immedia	ata Notiou (	1			*****	02/18/2014					-	****
was minicun	ate nutice c		Yes 🔲	No 🔲 Not Re	auired	If YES, To Goeffrey L	whom? eking- NMOCD,	Jennife	r Van Cure	n- RI M		
51	A				,					···		
By Whom? Was a Watero	Austin Tra	mell via phor hed?	ie message	A		Date and H	our 02/18/2014 lume Impacting t					
			Yes 🛛	No		14 1 2.00, 90	tunie inipacting u	TIC WARE	icourse.			
If a Watercou	rse was Imr	acted. Descri	he Fully.*							····-		
Describe Cau	se of Proble	m and Remed	ial Action	Taken.*								······································
A leak in an 8	tinch nalv e	nadunad nunta	<del>v</del> Hea laak	ad 9200 kbig af m		ه معدد ما م			(0001)	<i>A</i> 1		
recovered via	vacuum tru	ck and the lin	r nne leak e was repa	ed 2300 bbls of p fired.	roauce	a water onto u	e ground. Appro	ximatel	y 1000 bbi	s of produce	d water	were
Describe Area	a Affected a	nd Cleanup A	ction Taka	en.*								
The affected a	irea was app	roximately 90	)' x 180' a	nd did leave the l	ocation	area. Remed	iation will he com	nleted i	in accordar	ce with a pla	an anne	aved by
both the NMC	OCD and the	BLM.						ipiolog		ee area a pa	ա տիր	overaby
I hereby certif	v that the in	formation giv	an abaua	in true and append	sta ta ti				1.3			
regulations all	operators a	re required to	report and	is true and complete for the second sec	lease na	obifications and	nerform correct	ive actic	the for rola	anine militale e	nou and	lon con
public nealth (	or the envire	nment. The a	acceptance	of a C-141 report	t by the	e NMOCD ma	rked as "Final Re	nort" de	es not relie	we the oners	tor of I	inhility
should their of	perations ha	ve failed to ac	lequately i	nvestigate and re-	mediate	e contaminatio	n that nose a thre:	at to ore	und water	surface was	or hum	an health
federal, state, o	or local law:	s and/or regul	accepu	ance of a C-141 r	eport de	bes not relieve	the operator of re	esponsit	oility for co	mpliance wi	th any o	other
	10		and the second se				OIL CONS	ERV	TION		N	
Signature:	J-K-		·				<u>×10 ×0110</u>	<u> </u>		21 1 10101	<u>N</u>	
signature.	-pel_pel											
Printed Name:	Austin T	ramell			/ /	Approved by [	District Supervisor	r:				
Title: HES (	Coordinator				ŀ	Approval Date		E	xpiration D	51 F # 1		
E-mail Addres	s: Austin	Tramell@ox	v.com			Conditions of A			Service D			
~1	10/14						·j·]/20+01.			Attached		
Date: X	リイルナ		Phone	e: (575) 397-8210								

\* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

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

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

1220 S. SI. Fia	ncis Dr., San	a Fe, NIVI 8750	э 	Sa	anta F	e, NM 875	505			side of form		
			Rel	ease Notific	catio	n and Co	orrective A	ction				
						<b>OPERA</b>	ГOR		nitial Report	🔀 Final Report		
Name of Co		Oxy USA In				Contact 1	Austin Tramell					
		tanolind Rd,				Telephone No. (575) 397-8210						
Facility Na	me Red I	Tank 28 Fede	eral #3 Ba	ittery		Facility Typ	be Battery					
Surface Ow	ner BL	M		Mineral C	Wner			AP	No. 30-025-3	31754(nearest well)		
				LOCA	ΔΤΙΟ	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/West Li	ne County			
	28	225	32E									
	- <b>I</b>	J		Latitude <u>N 32.3</u>	60020	Longity	do W 102 6794					
			1			OF REL	lde <u>W 103.6784</u> EASE	<u> </u>				
Type of Rele	ase Prod	uced Water			U ALL		Release 2300 t	bls Volu	ne Recovered	1000 bbls		
Source of Re	elease 8" Po	bly produced v	vater line				lour of Occurrence		and Hour of Di			
Was Immedia	ate Notice (	Hiven?				If YES, To						
		$\boxtimes$	Yes	No 🔲 Not Re	quired		eking- NMOCD,	Jennifer Van (	Curen- BLM			
By Whom?		amell via phor	ne message	9		Date and H	lour 02/18/2014	4 @ 1:46 pm				
Was a Water	course Reac		Yes 🛛	No		If YES, Vo	lume Impacting t	he Watercours	2,			
Describe Cau A leak in an 8 recovered via	3 inch poly j	produced wate	x line leak	ed 2300 bbls of p	roduce	d water onto t	1e ground. Appro	oximately 1000	bbls of produc	ed water were		
Describe Area	a Affected a	nd Cleanup A	ction Tak	en.*								
approved by (	Geoffrey Le	king of NMO	CD on 04/	and did leave the l 25/2014 and appr	oved by	y Jennifer Var	Curen of the BL	M via email on	05/02/2014.	-		
regulations all public health should their o	l operators a or the envir- perations ha unent. In ac	are required to onment. The ave failed to a dition, NMO	acceptance acceptance dequately CD accept	is true and comple d/or file certain re e of a C-141 repor investigate and re ance of a C-141 re	lease no t by the mediate	otifications an NMOCD ma e contaminatio	d perform correct rked as "Final Re on that pose a three the operator of r	tive actions for port" does not eat to ground w esponsibility fo	releases which relieve the ope ater, surface wa or compliance v	may endanger rator of liability ater, human health vith any other		
	+	X					OIL CONS	SERVATIC	N DIVISIO	<u>DN</u>		
Signature:	0	$\leq 1$										
Printed Name	: Chance	y Summers			1	Approved by I	District Superviso	er:				
Title: HES	Specialist					Approval Date		Expirati	on Date:			
E-mail Addres	ss: Chanc	ey_Summers(	@oxy.com	L		Conditions of	Approval:		Attached	<b>—</b>		
Date:	2-15		Phor	ne: (575) 397-821(	)							

\* Attach Additional Sheets If Necessary





**Groundwater Plot** 

# Oxy Red Tank 28 Federal #3 SWD Battery







Section Quarters

# Oxy Red Tank 28 Federal #3 SWD



Оху

# Red Tank 28 Fed #3 Btry



Оху

# 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	SM4500CI-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	SM4500CI-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	SM4500CI-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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



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	Analyze	d 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	% 61.3-14	2						
Surrogate: Toluene-d8	97.7	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	212	65.7-14	1						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d 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	Analyze	d 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 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	205	63.6-15	4						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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)

BTEX 8260B	mg	/kg	Analyze	d 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 BTEX	<0.300	0.300	03/05/2014	ND					
Surrogate: Dibromofluoromethane	98.6	% 61.3-14	2						
Surrogate: Toluene-d8	103	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	107	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.9	% 63.6-15	4						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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)

BTEX 8260B	mg	/kg	Analyze	d 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 BTEX	<0.300	0.300	03/05/2014	ND					
Surrogate: Dibromofluoromethane	100	% 61.3-14	2						
Surrogate: Toluene-d8	96.1	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	99.7	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.2	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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 @ 7' (H400642-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d 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	Analyze	d 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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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 2 @ SURFACE (H400642-08)

BTEX 8260B	mg/	/kg	Analyze	d 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	% 61.3-14	2						
Surrogate: Toluene-d8	102	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	204	% 65.7-14	1						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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 \$	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	129	% 63.6-15	4						

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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)

BTEX 8260B	mg	/kg	Analyze	d 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 BTEX	<0.300	0.300	03/05/2014	ND					
Surrogate: Dibromofluoromethane	101	% 61.3-14	2						
Surrogate: Toluene-d8	98.8	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	111 9	65.7-14	1						
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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	104	% 63.6-15	4						

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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 2 @ 5' (H400642-10)

BTEX 8260B	mg	/kg	Analyze	d 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 BTEX	<0.300	0.300	03/05/2014	ND					
Surrogate: Dibromofluoromethane	101	% 61.3-14	12						
Surrogate: Toluene-d8	98.5	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	103	% 65.7-14	1						
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	Analyze	d 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	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	107	63.6-15	4						

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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 2 @ 7' (H400642-11)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	e, SM4500Cl-B mg/kg								
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	l-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	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	

#### **Cardinal Laboratories**

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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 @ SURFACE (H400642-15)

BTEX 8260B	mg/kg		Analyze	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 BTEX	1.70	0.300	03/05/2014	ND						
Surrogate: Dibromofluoromethane	97.9	% 61.3-14	12							
Surrogate: Toluene-d8	98.3	% 71.3-12	9							
Surrogate: 4-Bromofluorobenzene	318	65.7-14	1							
Chloride, SM4500Cl-B	mg	′kg	Analyzed By: AP							
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	Analyze	d 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	% 65.2-14	10							
Surrogate: 1-Chlorooctadecane		63.6-15								

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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 @ 3' (H400642-16)

BTEX 8260B	mg	/kg	Analyze	d 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 BTEX	<0.300	0.300	03/05/2014	ND					
Surrogate: Dibromofluoromethane	98.0	% 61.3-14	2						
Surrogate: Toluene-d8	97.7	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	116	65.7-14	1						
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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	100	63.6-15	4						

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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)

BTEX 8260B	mg	/kg	Analyze	d 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 BTEX	<0.300	0.300	03/05/2014	ND					
Surrogate: Dibromofluoromethane	103	% 61.3-14	2						
Surrogate: Toluene-d8	99.8	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	108	% 65.7-14	1						
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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	108	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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	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	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	Analyze	d 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	Analyze	d 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	

#### **Cardinal Laboratories**

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### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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 SM4500CI-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. Keine

Celey D. Keene, Lab Director/Quality Manager

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R	NINIAI I ABOBATORIE	0		CHAIN-OF-CU		STUDY AND ANALYSIS REQUEST		UESI
C AN	101 East Marland, Hobbs, NM 88240	240						
(!	(505) 393-2326 FAX (505) 393-2476	76					)	
Company Name:	BBC International, Inc.		E1155 10			ANALYSIS K	REQUEST	
Project Manager:	Cliff Brunson		P.O. #:					
Address: P.O. E	Box 805		Company:					
bbs	State: NM	Zip: 88241 A	Attn:					
ē#	575-397-6388 Fax #: 575	-0397	Address: Jame					
Project #:	Project Owner:	oxy	City:					
Project Name:	Per Tank 28-3 8'	TL'	State: Zip:		-			
Project Location:	MILISPA		Phone #:					
Sampler Name:	\$	T	Fax #:		<			
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	G	/ ->			
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Lab I.D.	Sample I.D.	DGE	ier : D/Base: / Cool ier :		7 			
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analyses. All claims including those service. In no event shall Cardinal	or negligence and any other cause whatsoever be liable for incidental or consequental damages,	stall be deemed waived unless made in writing and received by Garuniai writin do yets are co-injeturiu i u ie e including without limitation, business interruptions, loss of use, or loss of ports incurred by client, its subsidiaries, Co-viciori encordiase of whother such claim is based unna awo of the abrivs stated teasons or otherwis	eceived by Cardinal within 30 days aller o ss of use, or loss of profits incurred by clic based uppn any of the above stated reas	ompletion of the app ent, its subsidiaries, ons of otherwise				
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Page 15 of 17

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annot accept verbal changes. Ple	le One) Other	Timp: 14	Time: 00/4	those for negligence and any other cause whatsoever sha linal be liable for incidental or consequental damages, incl out of or related to the performance of services hereunde	Damages. Cardinal's liability and client's exclusive remedy		16	HINK I		1 SI OR OG		Sample I.D.		Vert Ornelas	mills Repch	Ked Tunk 20-3 8	ject Ov	Fax #:	State: NM	Box 805	Cliff Brunson	BBC International, Inc.	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476
9 L	Sample Sondition	Received	The second second	analyses. All claims including those for negligence and any other cause whatsoever shall be deended warved uniess made in writing and received by variatia writin our dys attel competion or the expendance service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business intemptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business intemptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors ansign 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.	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing whether based in contract or tort, shall be limited to the						# CON GROUI WASTE SOIL OIL SLUDG OTHEF ACID/E	R : BASE:	MATRIX	Fax	Phone #:	State:	her: $\partial \chi \gamma$ City:	575-397-0397 Address:	Zip: 88241 Attn:	Company:	P.O. #:		ES 8240 476
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Page 17 of 17



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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



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	Analyze	d 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	% 61.3-14	2						
Surrogate: Toluene-d8	105	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	106	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 65.2-14	0						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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)

BTEX 8260B	mg	/kg	Analyze	d 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	95.0	% 61.3-14	2						
Surrogate: Toluene-d8	105	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	106	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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 \$	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	105	63.6-15	4						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 61.3-14	2						
Surrogate: Toluene-d8	101 9	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	255	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	99.7	% 63.6-15	4						

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 @ 7' (H400662-04)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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, SM4500CI-B	mg,	′kg	Analyze	d 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	Analyze	d 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	Analyze	d 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	

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

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

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

7				
ARD	ARDINAL LABORATORIES	RIES 1 88240		
(50	(505) 393-2326 FAX (505) 393-2476	3-2476		ANALYSIS REQUEST
Company Name:	BBC International, Inc.			
l I	Cliff Brunson		7.0. #	
Address: P.O. Box 805	ox 805		Company:	
	State:	NM zip: 88241	Attn:	
Phone #: 575-397-6388	7-6388 Fax #:	575-397-0397	Address:	
		Project Owner: <i>Ο</i> χγ	city:	
Project Name:	Red ten k	#3	State: Zip:	
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FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	<u>`</u> X
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PLEASE NOTE: Liability an analyses. All claims includin	d Damages. Cardinal's liability and client's exclusive the second state what a second se	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 pad by the client for the applicable granayee. All claims including those for negligence and any other cause whatsoever shall be demed waived unless made in writing and neavied by Cardinal within 30 days after completion of the applicable granayee. All claims including those for negligence and any other cause whatsoever shall be demend waived unless made in writing and neavier by Cardinal within 30 days after completion of the applicable granayee. All claims including those for negligence and any other cause whatsoever shall be demend waived unless interruptions, loss of use, or loss of profils incurred by client, its subsidiaries,	In contract or tort, shall be limited to the amount paid by the crient for the writing and received by Cardinal within 30 days after completion of the al anuptions, loss of use, or loss of profils incurred by client, its subsidiaries	y the client for the ompletion of the applicable nt, its subsidiaries,
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 7 of 7


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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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,

Whe Sigh

Mike Snyder Organic Supervisor



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		Analyze	d 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	% 61.3-14	2							
Surrogate: Toluene-d8	110 9	% 71.3-12	9							
Surrogate: 4-Bromofluorobenzene	304	65.7-14	1							
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	Analyze	d 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	65.2-14	0							
Surrogate: 1-Chlorooctadecane	661	63.6-15	4							

### **Cardinal Laboratories**

## \*=Accredited Analyte

Mite Sough

Mike Snyder, Organic Supervisor



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)

BTEX 8260B	mg/kg		Analyze	d 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 BTEX	<0.300	0.300	03/07/2014	ND					
Surrogate: Dibromofluoromethane	95.8	% 61.3-14	2						
Surrogate: Toluene-d8	103	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	110 9	65.7-14	1						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	104	% 63.6-15	4						

### **Cardinal Laboratories**

## \*=Accredited Analyte

Mite Sough

Mike Snyder, Organic Supervisor



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)

BTEX 8260B	mg/kg		Analyze	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 BTEX	<0.300	0.300	03/07/2014	ND					
Surrogate: Dibromofluoromethane	94.9	% 61.3-14	12						
Surrogate: Toluene-d8	105	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	103	% 65.7-14	1						
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	Analyze	d 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	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	107	63.6-15	4						

#### Cardinal Laboratories

## \*=Accredited Analyte

Mite Sough

Mike Snyder, Organic Supervisor



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	14500Cl-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	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Mite Sugar

Mike Snyder, Organic Supervisor



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 @ SURFACE (H400687-08)

BTEX 8260B	mg	′kg	Analyze	d 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 BTEX	22.3	1.20	03/07/2014	ND							
Surrogate: Dibromofluoromethane	93.9	% 61.3-14	12								
Surrogate: Toluene-d8	110 9	% 71.3-12	9								
Surrogate: 4-Bromofluorobenzene	279	65.7-14	1								
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AP								
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	Analyze	d 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	65.2-14	0								
Surrogate: 1-Chlorooctadecane	647	63.6-15	1								

### Cardinal Laboratories

## \*=Accredited Analyte

Mite Sough

Mike Snyder, Organic Supervisor



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)

BTEX 8260B	mg,	/kg	Analyze	d 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 BTEX	2.70	0.600	03/07/2014	ND					
Surrogate: Dibromofluoromethane	98.6	% 61.3-14	2						
Surrogate: Toluene-d8	105	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	214	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP						
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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	215	63.6-15	4						

### Cardinal Laboratories

## \*=Accredited Analyte

Mite Sough

Mike Snyder, Organic Supervisor



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		Analyze	d 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	% 61.3-14	2						
Surrogate: Toluene-d8	103	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	110 9	65.7-14	1						
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	Analyze	d 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 :	65.2-14	0						
Surrogate: 1-Chlorooctadecane	166	63.6-15							

### Cardinal Laboratories

## \*=Accredited Analyte

Mite Sough

Mike Snyder, Organic Supervisor



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:						
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	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Mite Sugar

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

Mite Singh

Mike Snyder, Organic Supervisor

ANALYSIS REQUEST
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Note: Unlarge Calculus I tably and Carls exclusion remarks for any data table to indexed or outed or that table to indexed or control or that table to indexed or the market indexed or the indexed or control or that table to indexed or the indexed or the indexed or control or that table to indexed or the indexed or the indexed or control or that table to indexed or the indexed or control or that table to indexed or the indexed or indexed or that table to indexed or the indexed or indexed or indexed or that table to indexed or the indexed or indexed or indexed or that table to indexed or the indexed or indexed or indexed or the indexed or index	
Damages. Cardina's liability and client's exclusive ennectly for any claim ansing whether based in contract or furl, shall be limited to the annunt pad by the client for the these for negligence and any other cause whatscever shall be dement waised in writing and received by Cardinal within 30 days after completion of the applicable induced by the client for the these including without invlation, business interruptions, loss of use, or loss of profile incurred by client, its subscitairies, our for related to the performance of services herdwordsr by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.         Out of related to the performance of services herdwordsr by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.         Out of related to the performance of services.         Date:         Date:         Date:         Received By:         Time:         Time:         7,0         Date:         Reference By:         Reference By:         Time:         7,0         Date:         Reference By:         Reference By:         Time:         7,0         Sample Condition         Cherg(KGD BY:         Quest By:         9,20         10,20         11,20         12,20         12,20	SP6010 SP6010 SP6017 627 627
	PIEASE NOTE: Liability and Damages. Cardinal's liability and clean's exclusive remedy for any claim indire you claim indire the send in contract root, shall be limited analyses. All claims including those for negligence and any other cause whatsoarers shall be deemed waived unless made in writing and received by Cardinal service. In no event shall Cardinal be liable for incidental or consequential damages, including whole unless made in writing and received by Cardinal millines or ascessors million of or related to the performance of services bedrufer by Cardinal, regardless of whole such claim is based unon any of the researce as any other researce bedrufer by Cardinal, regardless of whole such claim is based unon any of the researce of services. Time: 1, 20         Relinquished By:       Date:       Recaived By:         Relinquished By:       Date:       Regerved By:         Delivered By:       Circle One)       Sample Condition       CHEQI         Sampler - UPS - Bus - Other:       U. 20       Sample Condition       CHEQI

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Page 12 of 12



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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



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, SM4500Cl-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, 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	03/28/2014	ND	416	104	400	3.77	

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

Chloride, SM4500Cl-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, SM4500Cl-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	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	Analyze	d 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	

### Cardinal Laboratories

\*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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, SM4500Cl-B	mg/	/kg	Analyze	d 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, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	Analyze	d 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	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	Analyze	d 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	

### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celey D. Keine

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

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

		BILL TO		ANALYSIS REQUEST
Project Manager: Cliff Brunson		P.O. #:		
Address: P.O. Box 805		Company:		
city: Hobbs State	State: NM Zip: 88241	Attn:		
Phone #: 575-397-6388 Fax #:	575-397-0397	Address:		
Project #: Project	Project Owner: OXY	City:		
Project Name: Red Tank 28 Federal #3 Battery Trunk Line		State: Zip:	CI	
Project Location: Lea County, NM		#		
Sampler Name: Jeff Ornelas		Fax #:		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	ING	
Lab I.D. Sample I.D.	DGE	ER : //BASE: COOL ER :		
1 SB1 @ 20'		~	10:20 AM 🗸	
2 SB1 @ 30'	61 1	3/19/14	10:39 AM	
3 SB1 @ 40'	61 1	3/19/14	11:00 AM	
4 SB1 @ 50'	61 1	3/19/14	11:25 AM 🖌	
5 SB1 @ 60'	6 - 1	3/19/14	12:09 PM 🖌	
6 SB1 @ 70	5	3/19/14	1:15 PM 🗸	
-		3/19/14	-	
SB2 @ 30		/ 3/19/14	1:58 PM 🗸	
1002 @ 10 B2 @ 50	60	3/19/14	2:45 PM	
LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive malyses. All claims including those for negligence and any other cause whatsoe envice. In no event shall Cardinal be liable for incidental or consequence and any any section.	remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the reg shall be depend waived unless made in writing and received by Cardinal within 30 days after completion of the applicable being up without limitation busises internations (lose of use or lose of motifs in some two days are un-busing the applicable of the source of t	r tort, shall be limited to the amount pai eceived by Cardinal within 30 days afte	unt paid by the client for the ays after completion of the applicable	-
out of or related to the performance of	ender by Gridinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	based upon any of the above stated rea	Ľ	
Relinquished By:	Received By:	lenson	Phone Result:   Yes Fax Result:  Yes REMARKS:	'es □ No Add'I Phone #: 'es □ No Add'I Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition	n CHECKED BY:		
† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	Please fax written changes to 50	io 505-393- <b>24</b> 76		

Page 7 of 8

		BILL TO	Ø		ANALYSIS REQUEST	
Address: P.O. Roy 805		P.O. #:				
obs State:	NM zip: 88241	Attn:				
e #: 575-397-6388 Fax #:	5-397-	Address:				
Project #: Project C	Project Owner: OXY	City:				
Project Name: Red Tank 28 Federal #3 Battery Trunk Line	ery Trunk Line	State: Zip:		0		
Project Location: Lea County, NM		#		-		
Sampler Name: Jeff Ornelas		Fax #:				
FOR LAB USE ONLY	P. MATRIX	PRESERV. SAM	SAMPLING			
Lab I.D. Sample I.D.	AB OR (C)OMI NTAINERS UNDWATER TEWATER	ER : /BASE: COOL	-			
H400874	- # C0 GR0		1			2. 
17 SB3 @ 20		V 3/19/14	_	. <		
13 SB3 @ 30'	6		4 3.51 PM	~		
14 SB3 @ 40'		3/19/14		< ·		
5 SB3 @ 50'				< •		
(16 SB3 @ 60'	61 1	3/19/14	4 5:00 PM	<		
148/14						
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive reme	dy for any claim arising whether based in contract or for shall be limited to the am	or fort shall be limited to the amount	t naid by the client for th		t.	
those for negligence and any other cause whatspever s dinal be liable for incidental or consequents that age, it pout of or related to the performance of secures have no	f deemed v ng withdut Cardinal, r	I received by Cardinal within 30 days after completion of the loss of use, or loss of profits incurred by client, its subsidiari is based upon any of the above stated reasons or otherwise.	is after completion of the ar d by client, its subsidiaries, led reasons or otherwise	applicable s,		
Relinquished By: Self () reles Time: K	Received By:	Venson	Phone Result: Fax Result: REMARKS:	ult:    Yes    No    Yes    No	Add'l Phone #: Add'l Fax #:	
Relinquished By: Date: Time:	Received By:					
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition	In CHECKED BY:				
+ Cardinal cannot accent vorbal changes Bloop for with a change to Eof and Area		- AAA				

Page 8 of 8



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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



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, SM4500Cl-B	mg	/kg	Analyze	d 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, SM4500Cl-B	mg	′kg	Analyze	d 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, SM4500Cl-B	mg	/kg	Analyze	d 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, SM4500Cl-B	mg	/kg	Analyze	d 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	

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celecz D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

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   Analyte NOT DETECTED at or above the reporting limit

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#### Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Relinquished By:     Delivered By:     Delivered By:     Time:     No     Received By:       Delivered By:     Circle One)     Time:     Sample Condition     CHECK       Sampler - UPS - Bus - Other:     4.22     The Sample Condition     CHECK       + Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2446	those for negligence linal be liable for incid out of or related to th	A Developed's tability and claims's acculation paramety for any claim asising whether based in contract or fort, shall be limited to the	1 2 3 4 4 4 4 4 4 5 5 6 1 4 4 4 5 5 6 1 4 4 4 4 5 5 6 1 4 4 4 6 5 6 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL	KOGED HEDNYINGEZ	Project Name: # Att TANK 29 Tank 28 Fed	Project #: 5/5-39/-6388 Fax #: 5/5-39/-039/ Project #: Project Owner: 0/0/	State: N		Project Manager: Cliff Brunson	500
*C	in writing and received by Cardinal within 30 days after completion of the appl interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, ar such claim is based upon any of the above stated reasons or otherwise. Phone Result: Fax Result: REMARKS:	ed in contract or fort, shall be limited to the amount paid by the client for the	02:1 ht-91-21 A 02:1 ht-91-21 A 01:1 ht-91-21 A 01:1 ht-91-21 A		Fax #: MATRIX PRESERV. SAMPLING	Phone #:	City:	Attn:	Company:	P.O. #	CHAIN-O
LUSM hanged project nome as per kathe	pplicable It: □ Yes □ No Add'I Phone #: □ Yes □ No Add'I Fax #:										CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
12/19 Ch											JEST //

Page 4 of 4

# **Kathy Purvis**

From:	Cliff P. Brunson < cbrunson@bbcinternational.com>
Sent:	Monday, April 28, 2014 8:45 AM
То:	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 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) 397-6388 Fax: (575) 397-0397 E-Mail: <u>cbrunson@bbcinternational.com</u>

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# **Kathy Purvis**

From:	Van Curen, Jennifer <jvancure@blm.gov></jvancure@blm.gov>
Sent:	Friday, May 02, 2014 8:00 AM
То:	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 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 28, 2014 at 5:32 PM, Cliff P. Brunson <<u>cbrunson@bbcinternational.com</u>> 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

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) 397-6388 Fax: (575) 397-6397 E-Mail: cbrunson@bbcinternational.com

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