## **Closure Report**

REC	EIVED
MAY	<b>2 3</b> 2014

	NMOCD ARTERIA
Site Name:	Lost Tank 10 Federal #2
Company:	Oxy Permian Ltd.
Legal Description:	U/L O, Section 3, T22S, R31E
County:	Eddy County, NM
GPS Coordinates:	N 32.41574° W 103.76318°

	Release Data
Date of Release:	10/01/2013
Type of Release:	Oil and produced water
Source of Release:	4" needle valve on circulating line broke off
Volume of Release:	10 bbls oil and 5 bbls produced water
Volume Recovered:	0 bbls

	Remediation Specifications
Remediation Parameters:	Excavate the entire leak site plus the additional two stuffing box leaks on site to a depth of 6 inches. Backfill the site with clean soil, using caliche on the pad.
Remediation Activities:	04/28/2014 to 04/29/2014

Plan Sent to OCD:	02/20/2014	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	02/19/2014	Verbal approval in meeting with M. Bratcher
Plan Sent to BLM:	02/20/2014	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	02/24/2014	Email from J. Van Curen to Cliff Brunson

	Supporting Documentation
Initial C-141	Signed 10/15/2013
Final C-141	Signed 05/19/2014
Site Diagram	November 2013
Groundwater Plot	150'
TOPO Maps	November 2013
Lab Summary	01/21/2014
Lab Analysis	01/21/2014
Correspondence	Request and approval of remediation plan via email

## Request for Closure

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

Cliff Brunson, President of BBC International Inc.

05/20/2014

District J 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., 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

Form C-141
Revised August 8, 2011
Submit 1 Capy to appropriate District Office in

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ease Notific	cation	and Co	rrective A	ction	1			
						OPERAT				al Report_	Fina	l Report
Name of Company Oxy Permian Ltd.  Address 1017 W. Stanolind Rd, Hobbs, NM 88240						Contact Chancey Summers Telephone No. (575) 397-8216						
	Facility Name Lost Tank 10 Federal #2						e Well locati					
Surface Ow				Mineral C					API No	30-015	-37960	
Surface Ow	ner ber	<u>v1</u>		•				<u></u>	ATTIVO	j. 30-013	-37900	
Unit Letter	Section	Township	Range	LOCA Feet from the		N OF REI	Feet from the	East/	West Line	County		
		•	Ů	rect from the	Nottin	South Line		Lasir	West Line			
0	3	22S	31E	840		South	1838		East	Eddy		
			Latitu	de <u>N 32.41559</u>	<u>5°</u>	Long	gitude <u>W 103.7</u>	63146	<u>•</u>			
<u> </u>	0	10 1 11	• • • • • • • • • • • • • • • • • • • •	NAT	URE	OF RELI					····	
Type of Relea	ase Oil ai	nd Produced V	Vater			Volume of 5 bbls prod		s oil,	Volume I 0 bbls	Recovered		
			n circulati	ng line broke off		Date and H 10/01/2013	our of Occurrenc	e	Date and	Hour of Disc	covery	
Was Immedia	ite Notice C		Yes [	No Not Re	equired	If YES, To Mike Bratc	Whom? her-NMOCD; Jei	nnifer V	'an Curen-l	BLM		
By Whom?						Date and H						
Was a Watero	course Reac		Yes 🏻	No		If YES, Vo	lume Impacting t	he Wat	ercourse.			
If a Watercou	irse was Im					RECEIVED					1	
		pactou, 2 000tt	,.						1			
										MAY 23	2014	
Describe Cau	se of Proble	em and Remed	dial Action	ı Taken.*				······	NM	OCD AF	RIESAI	
				line causing the 4 he valve was repa			ak off and allow	10 bbls	of oil and 5	bbls of proc	duced water	to leak
Describe Area	a Affected a	and Cleanup A	ction Tak	en.*								
The area affect by NMOCD a			0` x 40` w	ith all of the leak	staying	on location.	Remediation will	be con	ducted in a	ccordance w	ith a plan app	proved
regulations al public health should their o or the environ	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.								er ity ealth			
			<u></u>	)			OIL CONS	SERV	ATION	DIVISIO	<u>N</u>	
Signature: Printed Name	Chanca	y Summers	$\prec$	<u></u>	—   <i> </i>	Approved by I	Environmental Sp	occialis	::			
	Specialist	y Summers				Approval Date	<u> </u>		Expiration	Date:		
E-mail Address		cev.Summers@	woxy.com			Conditions of			<u> </u>	tion Date:		
Date: /0	/15/10 ional Shee		Phone:	(575) 397-8210			.,			Attached		

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

Revised August 8, 2011

Form C-141

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

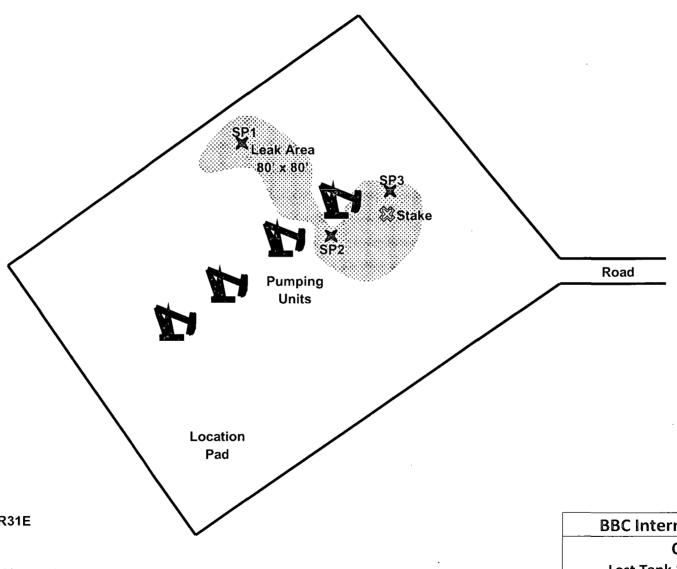
			Rel	ease Notific	eation	and Co	rrective A	ction	l			
						<b>OPERA</b> T	ror		☐ Initia	al Report	$\boxtimes$	Final Report
Name of Co	mpany	Oxy Permia	n Ltd.			Contact Chancey Summers						
		tanolind Rd,		VM 88240	$\overline{}$	Telephone No. (575) 397-8216						
Facility Nar	ne Lost	Tank 10 Fee	leral #2		I	Facility Type Well location						
Surface Ow	ner BLI	M		Mineral O	wner				API No	. 30-015	-37960	
				LOCA	TION	OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/V	Vest Line	County		
0	3	22S	31E	840	5	South	1838	1	East	Eddy		
		<u> </u>	Latitu	de <u>N 32.41559</u>								<del></del>
			Datitu			·	gitude <u>W 103.7</u>	/03140	-			
Type of Relea	ase Oila	nd Produced V	Vater	INAT	UKE	OF RELI Volume of		le oil	Volume R	ecovered		·
Type of Refer		ina i rodacea v	7 4101				uced water	is on,	0 bbls	CCOVCICU		
Source of Re	lease 4" i	needle valve o	n circulat	ing line broke off		10/01/2013		e	Date and	Hour of Dis	covery	
Was Immedia	ate Notice (		Yes [	No □ Not Re	quired	If YES, To Mike Brate	Whom? her-NMOCD; Je	nnifer V	an Curen-E	BLM		
By Whom?	Chancey S	Summers				Date and H	our 10/07/201.	3 @ 10:	14 am			
Was a Watero	course Read		v 57	1		If YES, Vo	lume Impacting t	he Wate	rcourse.			
		[_]								,	g gwar grity.	
If a Watercou	ırse was Im	pacted, Descri	be Fully.	k		RECEIVED						
									. M.	AY <b>23</b> 2	014	
Describe Cau	se of Proble	em and Remed	lial Action	n Taken.*					NMO	CD AR	TES:	-
Area livestock	k have been nd. No flui	rubbing the o ds were recov	irculating ered and t	line causing the 4 he valve was repa	" needle ired/repl	valve to bre aced.	ak off and allow	10 bbls (	of oil and 5	bbls of prod	luced w	ater to leak
Describe Area	a Affected a	and Cleanup A	ction Tak	en.*								
The area affection plan approved	cted was ap I by Mike F	proximately 2 Bratcher in a m	0' x 40' w neeting on	vith all of the leak 02/19/2014 and a	staying o	on location. by Jennifer	Remediation was Van Curen of the	comple BLM vi	ted in accordance	rdance with 02/24/2014.	the rem	ediation
regulations al public health should their o	l operators or the envirue perations had need to be a continuous for the second	are required to conment. The ave failed to a ddition, NMO	report an acceptance dequately CD accep	is true and compled/or file certain rele of a C-141 report investigate and retance of a C-141 relationship.	lease no t by the mediate	tifications an NMOCD ma contamination	d perform correct trked as "Final Roon that pose a three the operator of the	tive acti eport" de eat to gre responsi	ons for rele oes not relicound water bility for co	eases which eve the oper , surface wa ompliance w	may end ator of l ter, hum ith any o	langer iability an health
C.			<u>/</u>		ĺ		OIL CONS	SERV	<u>ATION</u>	DIVISIO	N	
Signature:				The second secon								
Printed Name	: Chance	y Summers			A	Approved by Environmental Specialist:						
Title: HES	Specialist				A	pproval Date	e:	E	Expiration I	Date:		
E-mail Addres	ss: <u>Chan</u> e	cey.Summers(	@oxy.com	1	c	Conditions of	Approval;			Attached	П	
Date: 5	19-1	4	Phone:	(575) 397-8216	,							

<sup>\*</sup> Attach Additional Sheets If Necessary



## Оху

## Lost Tank 10 Federal #2



U/L O, Section 3, T22S, R31E 840' FSL and 1838' FEL Eddy County, NM N 32.41574° W 103.76318° at stake API# 30-015-37960

BBC International, Inc.

Oxy
Lost Tank 10 Federal #2

Date: 11/11/13 DRWG by: K. Purvis

NOT TO SCALE File: Oxy 2013



## **Groundwater Plot**

## Oxy Lost Tank 10 Federal #2

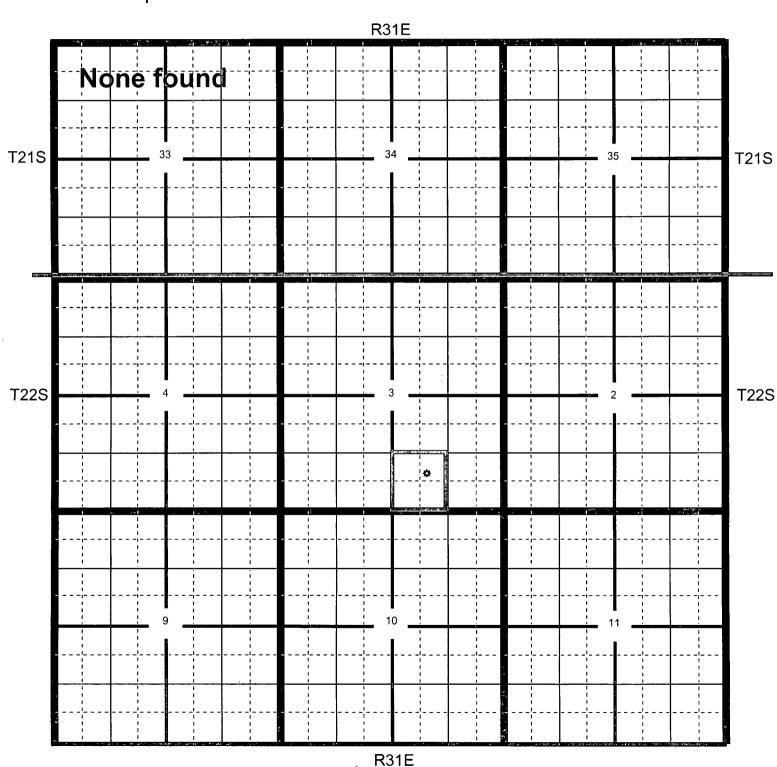
County Eddy Unit Letter

Section 3

Township 22S Range 31E

Trend Map

150'



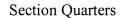
**☆** Location

OCD

○USGS

OSEO

All Databases



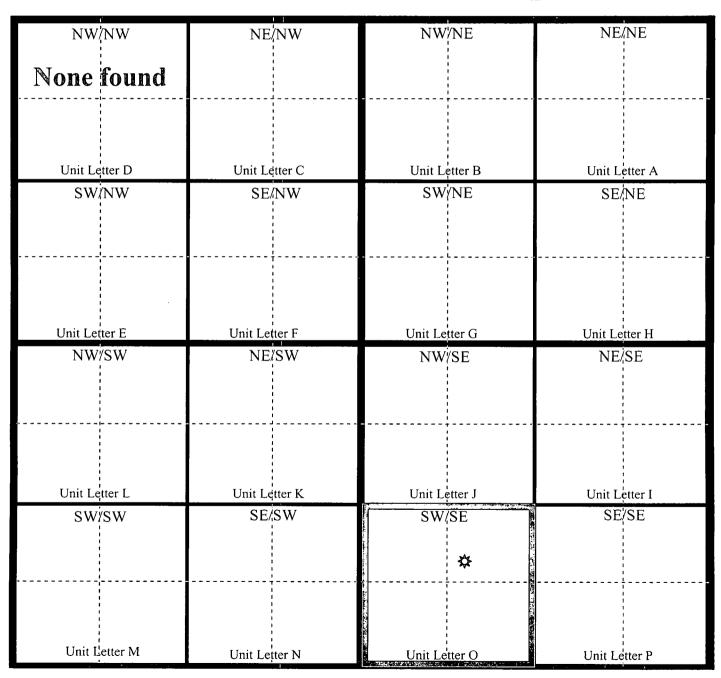


## Oxy Lost Tank 10 Federal #2

CountyUnit LetterSectionTownshipRangeEddyO322S31E

Trend Map 150'

1

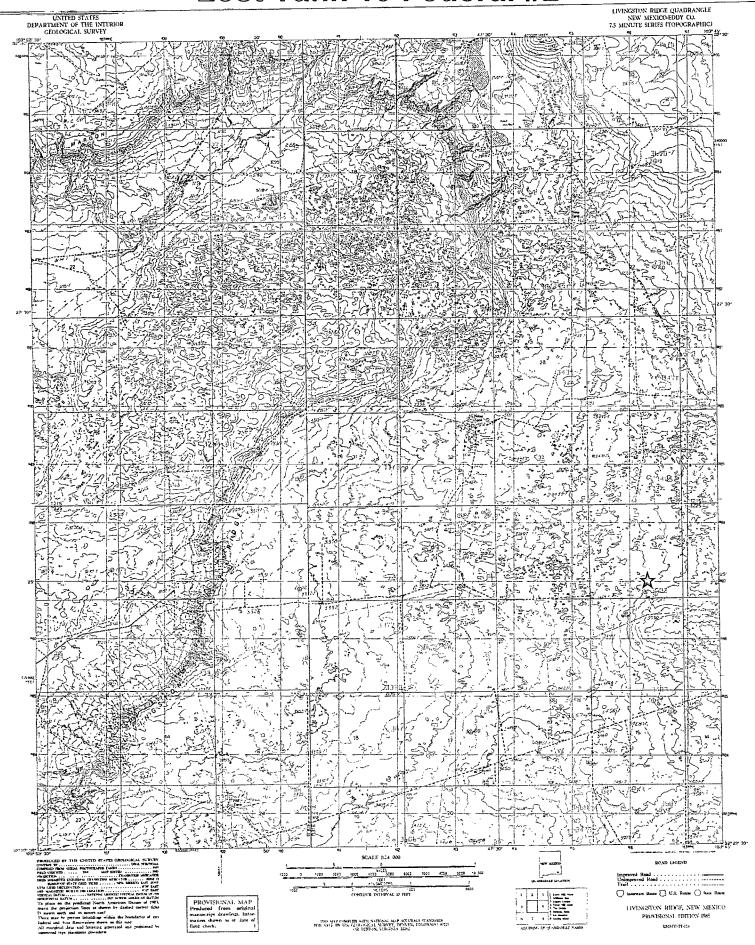


3

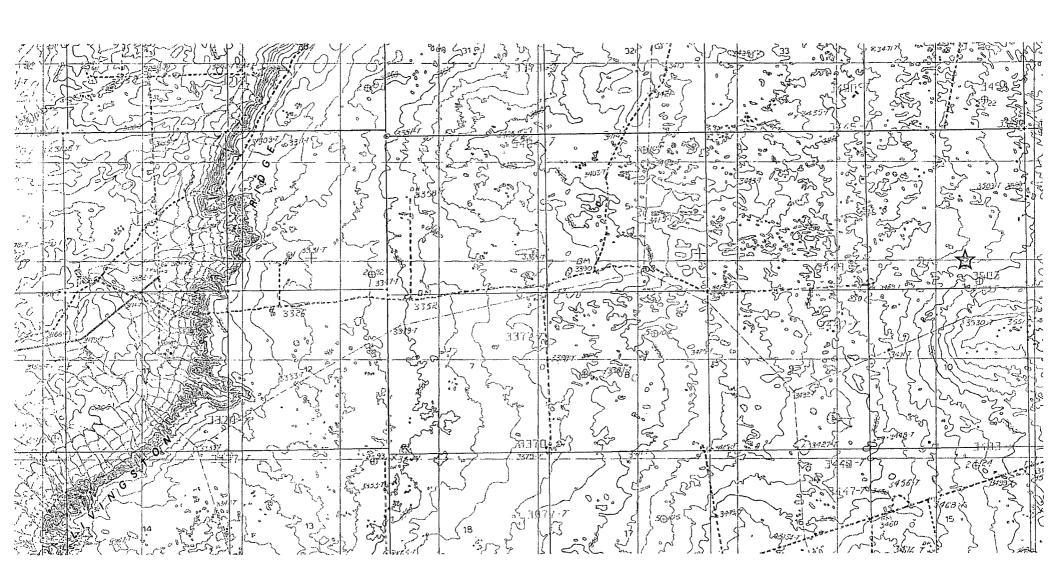
 ♠ Location
 ○ OCD
 ○ USGS
 ○ SEO
 ♠ All Databases

# Oxy

# Lost Tank 10 Federal #2



Oxy
Lost Tank 10 Federal #2



# Laboratory Analytical Results Summary Lost Tank 10 #2

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'
Analyte	Method	Date	1/21/14	1/21/14	1/21/14	1/21/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.119	<0.050	<0.050	< 0.050
Ethylbenzene	BTEX 8021B		0.405	<0.050	<0.050	< 0.050
Total Xylenes	BTEX 8021B		1.66	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		2.18	< 0.300	<0.300	<0.300
Chloride	SM4500CI-B		28000	832	768	48
GRO	TPH 8015M		50.3	<10.0	<10.0	<10.0
DRO	TPH 8015M		11300	14.3	<10.0	<10.0

		Sample	SP2 @ SURFACE	SP2 @ 1'
Analyte	Method	Date	1/21/14	1/21/14
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.053	<0.050
Toluene	BTEX 8021B		0.089	<0.050
Ethylbenzene	BTEX 8021B		0.106	<0.050
Total Xylenes	BTEX 8021B		0.406	<0.150
Total BTEX	BTEX 8021B		0.654	< 0.300
Chloride	SM4500CI-B		24400	<16.0
GRO	TPH 8015M		<100	<10.0
DRO	TPH 8015M		27100	11.6

		Sample	SP3 @ SURFACE	SP3 @ 1'
Analyte	Method	Date	1/21/14	1/21/14
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		0.167	<0.050
Ethylbenzene	BTEX 8021B		0.521	<0.050
Total Xylenes	BTEX 8021B		2.15	<0.150
Total BTEX	BTEX 8021B		2.84	<0.300
Chloride	SM4500CI-B		20800	48
GRO	TPH 8015M		54.6	<10.0
DRO	TPH 8015M		12900	10.4



January 31, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LOST TANK 10 #2

Enclosed are the results of analyses for samples received by the laboratory on 01/27/14 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/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

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.

Celey & Keine

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



BBC International, Inc. Cliff Brunson P.O. Box 805

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

Received:

01/27/2014

Sampling Date:

01/21/2014

Reported:

01/31/2014

Sampling Type:

Soil

Project Name: Project Number:

LOST TANK 10 #2 NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Kathy Perez

Project Location:

WIPP SITE

WIFF SITE

Sample ID: SP 1 @ SURFACE (H400247-01)

BTEX 8021B	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	01/30/2014	ND ·	2.39	120	2.00	0.434	
Toluene*	0.119	0.050	01/30/2014	ND	2.35	117	2.00	0.0933	
Ethylbenzene*	0.405	0.050	01/30/2014	ND	2.32	116	2.00	0.108	
Total Xylenes*	1.66	0.150	01/30/2014	ND	6.88	115	6.00	1.47	
Total BTEX	2.18	0.300	01/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	157 %	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28000	16.0	01/30/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Anaiyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	50.3	50.0	01/28/2014	ND	192	96.2	200	0.594	
DRO >C10-C28	11300	50.0	01/28/2014	ND	183	91.4	200	2.51	
Surrogate: 1-Chlorooctane	98.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	446 9	63.6-15	4						

## 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 & Keine



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

Fax To: (575) 397-0397

Received: Reported:

01/27/2014

01/31/2014

Project Name: Project Number: LOST TANK 10 #2 NONE GIVEN

Project Location:

WIPP SITE

96.8 %

63.6-154

Sampling Date:

01/21/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: K

Kathy Perez

Sample ID: SP 1 @ 1' (H400247-02)

0.050 0.050 0.050 0.050 0.150 0.300		Method Blank  ND  ND  ND  ND  ND  ND	2.39 2.35 2.32 6.88	% Recovery  120  117  116  115	2.00 2.00 2.00 2.00 6.00	RPD 0.434 0.0933 0.108 1.47	Qualifier
0.050 0.050 0.150 0.300	01/30/2014 01/30/2014 01/30/2014 01/30/2014	ND ND ND	2.35 2.32	117 116	2.00 2.00	0.0933 0.108	
0.050 0.150 0.300	01/30/2014 01/30/2014 01/30/2014	ND ND	2.32	116	2.00	0.108	
0.150 0.300	01/30/2014 01/30/2014	ND					
0.300	01/30/2014		6.88	115	6.00	1.47	
	6	ND					
89.4-12							
	A I						
	Anaiyze	d By: AP					
eporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
16.0	01/30/2014	ND	400	100	400	8.33	
	Analyze	d By: ms					
eporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
10.0	01/28/2014	ND	192	96.2	200	0.594	
10.0	01/28/2014	ND	183	91.4	200	2.51	
	eporting Limit	eporting Limit Analyzed 10.0 01/28/2014	eporting Limit Analyzed Method Blank 10.0 01/28/2014 ND	eporting Limit Analyzed Method Blank BS 10.0 01/28/2014 ND 192	eporting Limit Analyzed Method Blank BS % Recovery 10.0 01/28/2014 ND 192 96.2	eporting Limit Analyzed Method Blank BS % Recovery True Value QC 10.0 01/28/2014 ND 192 96.2 200	eporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 10.0 01/28/2014 ND 192 96.2 200 0.594

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=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 client first and 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 or profits incircured by client, 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 & Kune



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

Fax To:

(575) 397-0397

Received:

01/27/2014

Sampling Date:

01/21/2014

Reported:

01/31/2014

Sampling Type:

Soil

Project Name:

LOST TANK 10 #2

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Kathy Perez

Project Location:

WIPP SITE

Sample ID: SP 1 @ 3' (H400247-03)

BTEX 8021B	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	01/30/2014	ND	2.39	120	2.00	0.434	
Toluene*	<0.050	0.050	01/30/2014	ND	2.35	117	2.00	0.0933	
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.32	116	2.00	0.108	
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.88	115	6.00	1.47	
Total BTEX	<0.300	0.300	01/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	. Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	01/30/2014	ND	400	100	400	8.33	
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	01/28/2014	ND	192	96.2	200	0.594	
DRO >C10-C28	<10.0	10.0	01/28/2014	ND	183	91.4	200	2.51	
Surrogate: 1-Chlorooctane	98.45	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	106 9	63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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 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 Laboratomes.

Celey D. Keene



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

Fax To:

(575) 397-0397

Received:

01/27/2014

Reported:

01/31/2014

Project Name: Project Number: LOST TANK 10 #2 NONE GIVEN

Project Location:

WIPP SITE

Sampling Date:

01/21/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kathy Perez

Sample ID: SP 1 @ 5' (H400247-04)

BTEX 8021B	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	01/30/2014	ND	2.39	120	2.00	0.434	
Toluene*	<0.050	0.050	01/30/2014	ND	2.35	117	2.00	0.0933	
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.32	116	2.00	0.108	
Total Xylenes*	< 0.150	0.150	01/30/2014	ND	6.88	115	6.00	1.47	
Total BTEX	<0.300	0.300	01/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/30/2014	ND	400	100	400	8.33	
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	01/28/2014	ND	192	96.2	200	0.594	
DRO >C10-C28	<10.0	10.0	01/28/2014	ND	183	91.4	200	2.51	
Surrogate: 1-Chlorooctane	90.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	86.5	% 63.6-15	4						

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\*=Accredited Analyte

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Celey D. Keene



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

Fax To:

(575) 397-0397

Received:

01/27/2014

Sampling Date:

01/21/2014

Reported:

01/31/2014

Sampling Type:

Soil

Project Name:

LOST TANK 10 #2

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Kathy Perez

Project Location:

WIPP SITE

Sample ID: SP 2 @ SURFACE (H400247-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.053	0.050	01/30/2014	ND	2.39	120	2.00	0.434	
Toluene*	0.089	0.050	01/30/2014	ND	2.35	117	2.00	0.0933	
Ethylbenzene*	0.106	0.050	01/30/2014	ND	2.32	116	2.00	0.108	
Total Xylenes*	0.406	0.150	01/30/2014	ND	6.88	115	6.00	1.47	
Total BTEX	0.654	0.300	01/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	127	% 89.4-12	6						
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	01/30/2014	ND	400	100	400	8.33	
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	01/28/2014	ND	192	96.2	200	0.594	
DRO >C10-C28	27100	100	01/28/2014	ND	183	91.4	200	2.51	
Surrogate: 1-Chlorooctane	106 9	% 65.2-14	0						
Summant 1 Chlorocatudosmo	2020	0/ /3/15	,						

Surrogate: 1-Chlorooctadecane

2020 %

63.6-154

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Celey D. Keine



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

Fax To: (575) 397-0397

Received: Reported: 01/27/2014

01/31/2014

Project Name: Project Number: LOST TANK 10 #2 NONE GIVEN

Project Location:

Surrogate: 1-Chlorooctadecane

WIPP SITE

92.8 %

63.6-154

Sampling Date:

01/21/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kathy Perez

Sample ID: SP 2 @ 1' (H400247-06)

BTEX 8021B	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	01/30/2014	ND	2.39	120	2.00	0.434	
Toluene*	<0.050	0.050	01/30/2014	ND	2.35	117	2.00	0.0933	
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.32	116	2.00	0.108	
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.88	115	6.00	1.47	
Total BTEX	<0.300	0.300	01/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIE	110 9	% 89.4-12	6						
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	01/30/2014	ND	400	100	400	8.33	
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	01/28/2014	ND	192	96.2	200	0.594	
DRO >C10-C28	11.6	10.0	01/28/2014	ND	183	91.4	200	2.51	
Surrogate: 1-Chlorooctane	98.9	% 65.2-14	0						

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Celey D. Kune



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

Fax To: (575) 397-0397

Received:

01/27/2014

Reported:

01/31/2014

Project Name: Project Number: LOST TANK 10 #2 NONE GIVEN

Project Location:

WIPP SITE

Sampling Date:

01/21/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Kathy Perez

## Sample ID: SP 3 @ SURFACE (H400247-07)

BTEX 8021B	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	01/30/2014	ND	2.39	120	2.00	0.434	
Toluene*	0.167	0.050	01/30/2014	ND	2.35	117	2.00	0.0933	
Ethylbenzene*	0.521	0.050	01/30/2014	ND	2.32	116	2.00	0.108	
Total Xylenes*	2.15	0.150	01/30/2014	ND	6.88	115	6.00	1.47	
Total BTEX	2.84	0.300	01/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	170 9	% 89.4-12	6						
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	01/30/2014	ND	400	100	400	8.33	
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	54.6	50.0	01/28/2014	ND	192	96.2	200	0.594	
DRO >C10-C28	12900	50.0	01/28/2014	ND	183	91.4	200	2.51	
Surrogate: 1-Chlorooctane	71.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	537 9	% 63.6-15	4						

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Celey & Kune



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

Fax To: (575) 397-0397

Received:

01/27/2014

Reported:

01/31/2014

Project Name: Project Number: LOST TANK 10 #2 NONE GIVEN

Project Location:

WIPP SITE

Sampling Date:

01/21/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: SP 3 @ 1' (H400247-08)

BTEX 8021B	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	01/30/2014	ND	2.39	120	2.00	0.434	
Toluene*	<0.050	0.050	01/30/2014	ND	2.35	117	2.00	0.0933	
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.32	116	2.00	0.108	
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.88	115	6.00	1.47	
Total BTEX	<0.300	0.300	01/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIE	110 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/30/2014	ND	400	100	400	8.33	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2014	ND	192	96.2	200	0.594	
DRO >C10-C28	10.4	10.0	01/28/2014	ND	183	91.4	200	2.51	
Surrogate: 1-Chlorooctane	98.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.3	% 63.6-15	4						

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Celey & Keine



#### **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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Celeg & Keene

# ARDINAL 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. 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:∍Ø ku∤ Project Name: Lost 10 # 7 Project Location: LibiDD 5:46 Phone #: Sampler Name: 💪 FOR LAB USE ONL PRESERV SAMPLING Lab I.D. Sample I.D. H400a4 TIME 582@ Surface 121-19 9:00 1930 for face

PLEASE NOTE: 'Liability and Damages, Cordinal's liability and claims exclusive remedy for any claim ensing whether based in contract or tort, shall be limited to the amount paid by the cleint for the analyses. All claims including those for neighbors 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 consequental damages, including without limitation; business infertibilities; loss of uses or loss of printips incurred by cleint, its subscription."

Relinquished By:	Date: Received By:	Phone Result:
Δ		Fax Result:
	→Time:	REMARKS:
Relinquished By:	Date Received By:	
Delivered By: (Circle One)	94mple Condition CHECKED (1) Cool intact (Initials)	
Sampler - UPS - Bus - Other	4.70 Pres Pres V	
	No No	

<sup>া</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

## **Kathy Purvis**

From: Van Curen, Jennifer <jvancure@blm.gov>
Sent: Monday, February 24, 2014 6:12 AM

**To:** Cliff P. Brunson

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

**Subject:** Re: Oxy-Lost Tank 10 Federal #2-Remediation Plan

CJ,

Approved with stipulations.

Well pad extends to include 4 wellbores and there are two other stuffing box leaks including this one. 6" needs to be pulled from all stained areas.

Well pad needs to be bermed to prevent spills from leaving well pad.

Pad areas should be resurfaced with 6" of clean caliche.

If you have any questions please let me know.

BLM approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulation.

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

On Thu, Feb 20, 2014 at 7:33 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 Mike Bratcher of the NMOCD. Oxy will excavate to a depth of 6 inches across the entire leak area as shown on the diagram. The area will then be backfilled with clean soil.

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

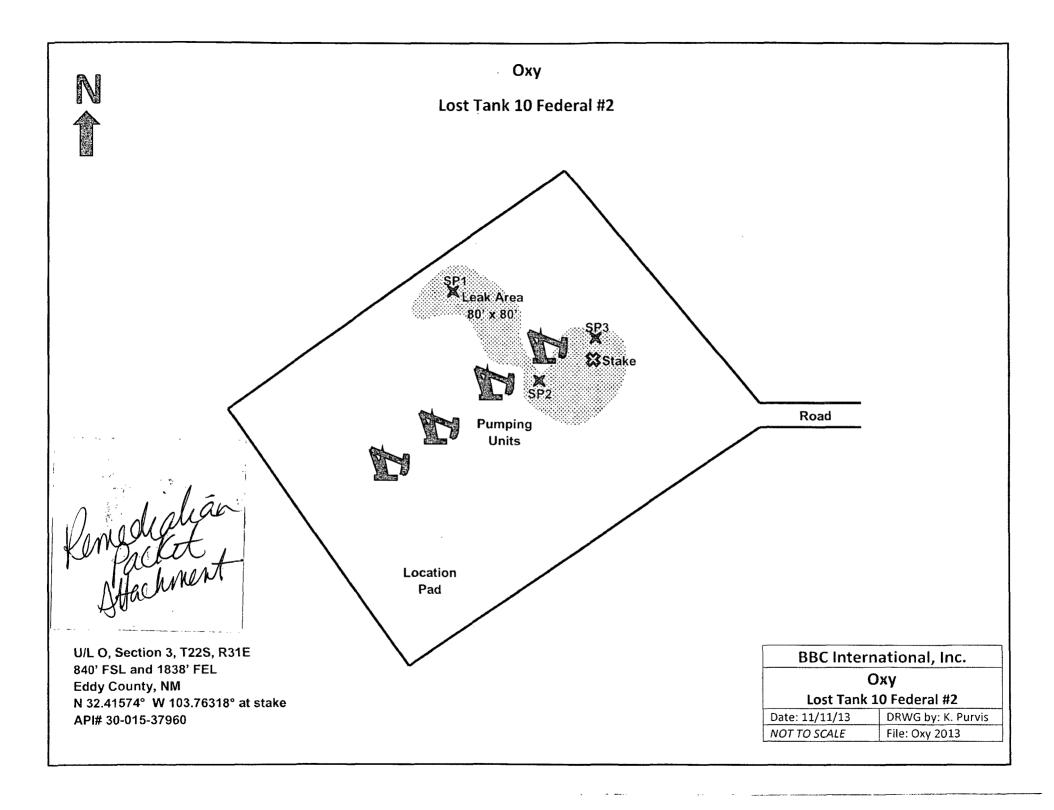
#### Thanks, Cliff

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

E-Mail: cbrunson@bbcinternational.com

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\*\*\*\*\*\*\*\*\*\*\*\*





## **Groundwater Plot**

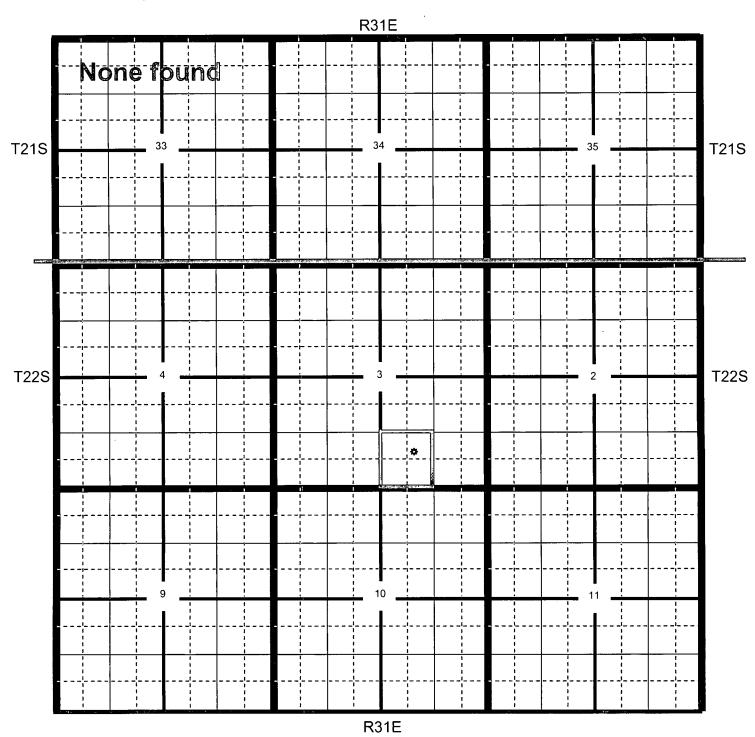
## Oxy Lost Tank 10 Federal #2

County Eddy Unit Letter

Section 3 Township 22S Range 31E

Trend Map

150'



**☆** Location

OCD

**OUSGS** 

OSEO

All Databases



## Section Quarters

## Oxy Lost Tank 10 Federal #2

CountyUnit LetterSectionTownshipRangeEddyO322S31E

Trend Map 150'

1 2

NW/NW	NE/NW	NW/NE	NE/NE
None found			
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SWNW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Lefter 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

**♦** Location OCD OUSGS OSEO ● All Databases

## Laboratory Analytical Results Summary Lost Tank 10 #2

		Sample	SP1@ SURFACE	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'
Analyte	Method	Date	1/21/14	1/21/14	1/21/14	1/21/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.119	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.405	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		1.66	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		2.18	< 0.300	<0.300	<0.300
Chloride	SM4500CI-B		28000	832	768	48
GRO	TPH 8015M		50.3	<10.0	<10.0	<10.0
DRO	TPH 8015M		11300	14.3	<10.0	<10.0

		Sample	SP2@ SURFACE	SP2 @ 1'
Analyte	Method	Date	1/21/14	1/21/14
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.053	<0.050
Toluene	BTEX 8021B		0.089	<0.050
Ethylbenzene	BTEX 8021B		0.106	<0.050
Total Xylenes	BTEX 8021B		0.406	<0.150
Total BTEX	BTEX 8021B		0.654	<0.300
Chloride	SM4500CI-B		24400	<16.0
GRO	TPH 8015M	T	<100	<10.0
DRO	TPH 8015M	1	27100	11.6

		Sample	SP3 @ SURFACE	SP3 @ 1'
Analyte	Method	Date	1/21/14	1/21/14
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		0.167	<0.050
Ethylbenzene	BTEX 8021B		0.521	<0.050
Total Xylenes	BTEX 8021B		2.15	<0.150
Total BTEX	BTEX 8021B		2.84	<0.300
Chloride	SM4500CI-B		20800	48
GRO	TPH 8015M		54.6	<10.0
DRO	TPH 8015M		12900	10.4



January 31, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LOST TANK 10 #2

Enclosed are the results of analyses for samples received by the laboratory on 01/27/14 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/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

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.

Celeg D. Keene

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



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

(575) 397-0397 Fax To:

Received:

01/27/2014

Sampling Date:

01/21/2014

Reported:

01/31/2014

Sampling Type:

Soil

Project Name:

LOST TANK 10 #2

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

WIPP SITE

Sample Received By:

Kathy Perez

## Sample ID: SP 1 @ SURFACE (H400247-01)

BTEX 8021B	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	01/30/2014	ND	2.39	120	2.00	0.434		
Toluene*	0.119	0.050	01/30/2014	ND	2.35	117	2.00	0.0933		
Ethylbenzene*	0.405	0.050	01/30/2014	ND	2.32	116	2.00	0.108		
Total Xylenes*	1.66	0.150	01/30/2014	ND	6.88	115	6.00	1.47		
Total BTEX	2.18	0.300	01/30/2014	ND						
Surrogate: 4-Bromofluorobenzene (PIL	157 9	% 89.4-12	6							
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	28000	16.0	01/30/2014	ND	400	100	400	0.00		
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	50.3	50.0	01/28/2014	ND	192	96.2	200	0.594		
DRO >C10-C28	11300	50.0	01/28/2014	ND	183	91.4	200	2.51		
Surrogate: 1-Chlorooctane	98.1	% 65.2-14	0							
Surrogate: 1-Chlorooctadecane	446 9	% 63.6-15	4							

## Cardinal Laboratories

\*=Accredited Analyte

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Celey & Keine



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

Fax To:

(575) 397-0397

Received:

01/27/2014

Sampling Date: Sampling Type: 01/21/2014

Reported:

01/31/2014

Soil

Project Name:

LOST TANK 10 #2

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN WIPP SITE Sample Received By:

Kathy Perez

## Sample ID: SP 1 @ 1' (H400247-02)

BTEX 8021B	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	01/30/2014	ND	2.39	120	2.00	0.434	
Toluene*	<0.050	0.050	01/30/2014	ND	2.35	117	2.00	0.0933	
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.32	116	2.00	0.108	
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.88	115	6.00	1.47	
Total BTEX	<0.300	0.300	01/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIE	112 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP			.=			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	01/30/2014	ND	400	100	400	8.33	
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	01/28/2014	ND	192	96.2	200	0.594	
DRO >C10-C28	14.3	10.0	01/28/2014	ND	183	91.4	200	2.51	
Surrogate: 1-Chlorooctane	92.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.8	% 63.6-15	4						

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

Fax To:

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Received: Reported: 01/27/2014

01/31/2014

LOST TANK 10 #2

Project Number: Project Location:

Project Name:

NONE GIVEN WIPP SITE

Sampling Date:

01/21/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

## Sample ID: SP 1 @ 3' (H400247-03)

BTEX 8021B	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	01/30/2014	ND	2.39	120	2.00	0.434	
Toluene*	<0.050	0.050	01/30/2014	ND	2.35	117	2.00	0.0933	
Ethylbenzene*	< 0.050	0.050	01/30/2014	ND	2.32	116	2.00	0.108	
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.88	115	6.00	1.47	
Total BTEX	<0.300	0.300	01/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	01/30/2014	ND	400	100	400	8.33	
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	01/28/2014	ND	192	96.2	200	0.594	
DRO >C10-C28	<10.0	10.0	01/28/2014	ND	183	91.4	200	2.51	
Surrogate: 1-Chlorooctane	98.4 % 65.2-140		0						
Surrogate: 1-Chlorooctadecane	106 9	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:

01/27/2014

01/21/2014

Reported:

01/31/2014

Sampling Date: Sampling Type:

Soil

Project Name:

LOST TANK 10 #2

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Kathy Perez

Project Location:

WIPP SITE

Sample ID: SP 1 @ 5' (H400247-04)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2014	ND	2.39	120	2.00	0.434	
Toluene*	<0.050	0.050	01/30/2014	ND	2.35	117	2.00	0.0933	
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.32	116	2.00	0.108	
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.88	115	6.00	1.47	
Total BTEX	<0.300	0.300	01/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 %	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/30/2014	ND	400	100	400	8.33	
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	01/28/2014	ND	192	96.2	200	0.594	
DRO >C10-C28	<10.0	10.0	01/28/2014	ND	183	91.4	200	2.51	
Surrogate: 1-Chlorooctane	90.2	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	86.5	% 63.6-15	4						

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Fax To:

(575) 397-0397

Received: Reported: 01/27/2014

01/31/2014

LOST TANK 10 #2

Project Number: Project Location:

Project Name:

NONE GIVEN WIPP SITE

Sampling Date:

01/21/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: SP 2 @ SURFACE (H400247-05)

BTEX 8021B	mg/	kg	Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.053	0.050	01/30/2014	ND	2.39	120	2.00	0.434	
Toluene*	0.089	0.050	01/30/2014	ND	2.35	117	2.00	0.0933	
Ethylbenzene*	0.106	0.050	01/30/2014	ND	2.32	116	2.00	0.108	
Total Xylenes*	0.406	0.150	01/30/2014	ND	6.88	115	6.00	1.47	
Total BTEX	0.654	0.300	01/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	127 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24400	16.0	01/30/2014	ND	400	100	400	8.33	
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	01/28/2014	ND	192	96.2	200	0.594	
DRO >C10-C28	27100	100	01/28/2014	ND	183	91.4	200	2.51	
Surrogate: 1-Chlorooctane	106 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	2020	% 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:

01/27/2014

Sampling Date: Sampling Type: 01/21/2014

Reported:

01/31/2014

Soil

Project Name:

LOST TANK 10 #2

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN WIPP SITE

Sample Received By:

Kathy Perez

Sample ID: SP 2 @ 1' (H400247-06)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2014	ND	2.39	120	2.00	0.434	
Toluene*	<0.050	0.050	01/30/2014	ND	2.35	117	2.00	0.0933	
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.32	116	2.00	0.108	
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.88	115	6.00	1.47	
Total BTEX	<0.300	0.300	01/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 89.4-12	6						
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	01/30/2014	ND	400	100	400	8.33	
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	01/28/2014	ND	192	96.2	200	0.594	
DRO >C10-C28	11.6	10.0	01/28/2014	ND	183	91.4	200	2.51	
Surrogate: 1-Chlorooctane	98.9	% 65.2-14	10				- <del></del>		
Surrogate: 1-Chlorooctadecane	92.8	% 63.6-15	4						

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Celen & Kune



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

Fax To:

(575) 397-0397

Received: Reported: 01/27/2014

01/31/2014

Project Name: Project Number: LOST TANK 10 #2 NONE GIVEN

Project Location:

WIPP SITE

Sampling Date:

01/21/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kathy Perez

Sample ID: SP 3 @ SURFACE (H400247-07)

BTEX 8021B	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	01/30/2014	ND	2.39	120	2.00	0.434	
Toluene*	0.167	0.050	01/30/2014	ND	2.35	117	2.00	0.0933	
Ethylbenzene*	0.521	0.050	01/30/2014	ND	2.32	116	2.00	0.108	
Total Xylenes*	2.15	0.150	01/30/2014	ND	6.88	115	6.00	1.47	
Total BTEX	2.84	0.300	01/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	170 %	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20800	16.0	01/30/2014	ND	400	100	400	8.33	
TPH 8015M	mg/	kg	Analyze	d By: ms					<b>S-06</b>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	54.6	50.0	01/28/2014	ND	192	96.2	200	0.594	
DRO >C10-C28	12900	50.0	01/28/2014	ND	183	91.4	200	2.51	
Surrogate: 1-Chlorooctane	71.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	537 5	% 63.6-15	4						

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Celey & Keine

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 11



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

Fax To:

(575) 397-0397

Received: Reported: 01/27/2014

01/31/2014

LOST TANK 10 #2

Project Number: Project Location:

Project Name:

NONE GIVEN

WIPP SITE

Sampling Date:

01/21/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: SP 3 @ 1' (H400247-08)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2014	ND	2.39	120	2.00	0.434	
Toluene*	<0.050	0.050	01/30/2014	ND	2.35	117	2.00	0.0933	
Ethylbenzene*	<0.050	0.050	01/30/2014	ND	2.32	116	2.00	0.108	
Total Xylenes*	<0.150	0.150	01/30/2014	ND	6.88	115	6.00	1.47	
Total BTEX	<0.300	0.300	01/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIC 110 %		% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>48.0</b> 16.0		01/30/2014 ND		400	100	400	8.33	
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	01/28/2014	ND	192	96.2	200	0.594	
DRO >C10-C28	<b>10.4</b> 10.0		01/28/2014	ND	183	91.4	200	2.51	
Surrogate: 1-Chlorooctane	98.6% 65.2-140		0						
Surrogate: 1-Chlorooctadecane	97.3	% 63.6-15	4						

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Celey D. Keine



#### **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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# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(303) 333-2320: FAX (303) 333-247	Sales Carlibar				ANALYSIS REQUEST						
The state of the s	BBC International, Inc.				LL TO	10702-355		ANALY	DID KEQUE	<b>3</b> 15		TO SERVE
26	r. Cliff Brunson			P.O. #:				A CONTRACT				
Address: P.O	Box 805			Company:							1. 3	
City Hobbs State: NM: Zip: 88241			Attn:									
Phone #: 575-	397-6388 <b>Fax#</b> : 575	-397-03	397	Address: /	$\rho >$							
Project#:	Project Owner	OKY		City: $igsim$	ر ک <sup>ار</sup> کر <sub>ا</sub>							100
Project Name: (	10+ Hank 10+2.			State:	v Zip:							
Project Location: 4, 6100 5, +e				Phone #:								
Sampler Name:				Fax#:								
FOR LAB USE ONLY			MATRIX	PRESERV.	SAMPLING							
		OWF.	œ .									
	6 - 1-15	(C)	MATE A			1 3	<b>177</b>					
Lab I.D.	Sample I.D.	BÔ	N EW	BASI SOO		1719	1681					
H400a4	7	(G)R <sub>A</sub>	GROUND WASTEW SOIL OIL	OTHE ACID/E ICE//C OTHE	DATE TIME	1011	1.03					
$\mathbf{V}$	SP1@ SUFFACE	6 2	X	X	121-11-9.00	K	( Y					
a	SPICIFF.	61	$ \mathbf{x}  =  \mathbf{x} $		121-14 9:20	XX	X					
3	SP101F4 SP103F+	6 1	·   X	X	1-21-199:45	XX	V					
υv	81e5F+	612	X       -		1-21 14 10:05	IX IX	X					
5	SP28 Suiface	61	Y		1-21 19 10 25	XX	IX L					
$\sim$ $\omega$	SP2@ 2F+	6 1	X	X X	1-21-1410 38	$X \mid X$	X				對數数	
7	SPJE SURFACE	6 1	X		1-27-14/100	$X \mid X$	X					
8	43E1F+	63	( X	- X	121-11/1-15	X X	KI.					
PLEASE NOTE: Liability ar							[34]					

PLEASE NOTE: Liability and Demages. Cardinal's liability and cleants exclusive remedy for any claim ensing whether based in column of unit and the limited to the import paid by the cleant tot the clean

Relinquished By:	Date: Received By:	Phone Result:
		Fax Result: □ Yes □ No Add' Fax #:
C 19A-	Time:	REMARKS:
Relinquished By:	Date (Received By:	
Delivered By: (Circle One)		KED BY)
	・ルーの Cool Intact L (in	tials)
Sampler - UPS - Bus - Other	4 / C Pres Hes V	ho .
	No No	

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

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., 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

Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 South St. Francis Dr. Santa Fe, NM 87505

Oil Conservation Division

		Relea	ase Notific	cation	n and Co	orrective A	ction					
					<b>OPERA</b>	ГOR		☐ Initia	al Report	П	Final Report	
Name of Co	ompany Oxy Permia	n Ltd.				Chancey Summe	ers					
	1017 W. Stanolind Rd.	, Hobbs, N	M 88240		Telephone N	No. (575) 397	-8216					
Facility Nar					Facility Typ	e Well locati	on					
Surface Ow	ner BLM		Mineral C	)wner				API No	. 30-015	-37960		
			LOCA	TION	OF RE	LEASE						
Unit Letter	Section Township	Range	Feet from the		South Line	Feet from the	East/W	est Line	County			
	2 225	315	0.10		C 1	1020	-		P.J.J.			
0	3 228	31E	840		South	1838	<u> </u>	East	Eddy			
		Latitud	le <u>N 32.41559</u>	<u>5°</u>	Long	gitude <u>W 103.7</u>	763146°					
			NAT	URE	OF REL				•			
Type of Rele	ase Oil and Produced	Water			Volume of		ls oil,	Volume R	Recovered			
Source of Do	elease 4" needle valve o	on oirculatin	a line broke off			luced water  Iour of Occurrence		0 bbls	Hour of Dis	coveru		
Source of Re	icase 4 necure varve (	on chediann	g inic bloke on		10/01/2013			Date and	riour or Dis	covery		
Was Immedia	ate Notice Given?				If YES, To		······································					
		Yes 🗌	No Not Re	equired	Mike Brate	her-NMOCD; Jei	nnifer Va	an Curen-E	BLM			
By Whom?					Date and F							
Was a Water	course Reached?	1	<b>.</b>		If YES, Vo	lume Impacting t	he Wate	rcourse.				
Yes ⊠ No RECEIVE:												
If a Watercou	urse was Impacted, Descr	ibe Fully.*		-				Î			, 1	
									MAY 2	3 2014	j,	
								į			- 1	
								INN	MOCD A	1075	51.	
Describe Cau	use of Problem and Reme	dial Action	Taken.*					Constant				
Aron livestoe	k have been rubbing the	oirculatina l	ing cousing the	f" naadl	a valva to bra	ak off and allow	IO bble o	of oil and 5	bble of pro	duced u	ester to leak	
	and. No fluids were reco					ak on and anow	i o obis c	n on and J	obis of pro-	aucea w	ater to reak	
_												
Describe Are	a Affected and Cleanup	Action Take	n.*									
The area affe	ected was approximately (	20' v 40' wi	th all of the leak	etavina	on location	Remediation will	be cond	lucted in a	cordance w	ith a pla	in approved	
	and the BLM.	20 X 40 WI	in an or the leak	staying	on location.	Remediation win	oc cond	incica iii ac	cordance w	itii a pia	ш арргосса	
	fy that the information g											
· · · · · · · · · · · · · · · · · · ·	Il operators are required to or the environment. The	•							_			
should their o	operations have failed to	adequately in	nvestigate and re	emediate	contaminati	on that pose a thre	eat to gro	ound water	, surface wa	ter, hun	nan health	
or the enviror	nment. In addition, NMC	OCD accepta	ince of a C-141 i	report de	oes not reliev	e the operator of r	responsib	oility for co	ompliance w	ith any	other	
federal, state,	or local laws and or regi	ulations		r		011 0011	20011		DIVIOLO			
OIL CONSERVATION DIVISION												
Signature:	Signature:											
					Approved by	Environmental Sp	oecialist:					
Printed Name	e: Chancey Summers											
Title: HES	Specialist				Approval Dat	e:	E	xpiration I	Date:			
E-mail Addre	ess: <u>Chancey.Summers</u>	@oxy.com		Conditions of Approval:								
Date: /0	15/13	Phone:	(575) 397-821	6					renderied			
Date. 10	11 7 11 7	i none.	(3/3/39/-02/1									

<sup>\*</sup> Attach Additional Sheets If Necessary