

# Closure Report

RECEIVED

MAY 23 2014

NMOCD ARTESIA

## Site Description

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

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	Lost Tank 10 Federal #2	Facility Type	Well location
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-37960

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	3	22S	31E	840	South	1838	East	Eddy

Latitude N 32.415595°

Longitude W 103.763146°

**NATURE OF RELEASE**

Type of Release	Oil and Produced Water	Volume of Release	10 bbls oil, 5 bbls produced water	Volume Recovered	0 bbls
Source of Release	4" needle valve on circulating line broke off	Date and Hour of Occurrence	10/01/2013	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher-NMOCD; Jennifer Van Curen-BLM		
By Whom?	Chancey Summers	Date and Hour	10/07/2013 @ 10:14 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

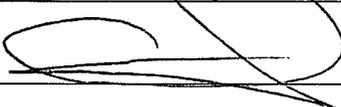
Describe Cause of Problem and Remedial Action Taken.\*

Area livestock have been rubbing the circulating line causing the 4" needle valve to break off and allow 10 bbls of oil and 5 bbls of produced water to leak onto the ground. No fluids were recovered and the valve was repaired/replaced.

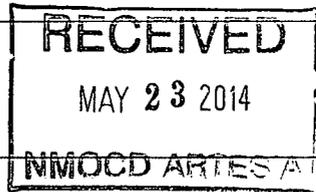
Describe Area Affected and Cleanup Action Taken.\*

The area affected was approximately 20' x 40' with all of the leak staying on location. Remediation will be conducted in accordance with a plan approved by NMOCD and the BLM.

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

Signature:		<b>OIL CONSERVATION DIVISION</b>	
Printed Name:	Chancey Summers	Approved by Environmental Specialist:	
Title:	HES Specialist	Approval Date:	Expiration Date:
E-mail Address:	Chancey.Summers@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date:	10/15/13	Phone:	(575) 397-8216

\* Attach Additional Sheets If Necessary



District I  
1625 N. French Dr., Hobbs, NM 88240  
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811 S. First St., Artesia, NM 88210  
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Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	Lost Tank 10 Federal #2	Facility Type	Well location
Surface Owner	BLM	Mineral Owner	API No. 30-015-37960

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	3	22S	31E	840	South	1838	East	Eddy

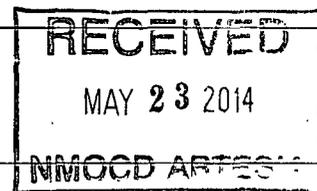
Latitude N 32.415595°

Longitude W 103.763146°

**NATURE OF RELEASE**

Type of Release	Oil and Produced Water	Volume of Release	10 bbls oil, 5 bbls produced water	Volume Recovered	0 bbls
Source of Release	4" needle valve on circulating line broke off	Date and Hour of Occurrence	10/01/2013	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher-NMOCD; Jennifer Van Curen-BLM		
By Whom?	Chancey Summers	Date and Hour	10/07/2013 @ 10:14 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*



Describe Cause of Problem and Remedial Action Taken.\*  
Area livestock have been rubbing the circulating line causing the 4" needle valve to break off and allow 10 bbls of oil and 5 bbls of produced water to leak onto the ground. No fluids were recovered and the valve was repaired/replaced.

Describe Area Affected and Cleanup Action Taken.\*  
The area affected was approximately 20' x 40' with all of the leak staying on location. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher in a meeting on 02/19/2014 and approved by Jennifer Van Curen of the BLM via email on 02/24/2014.

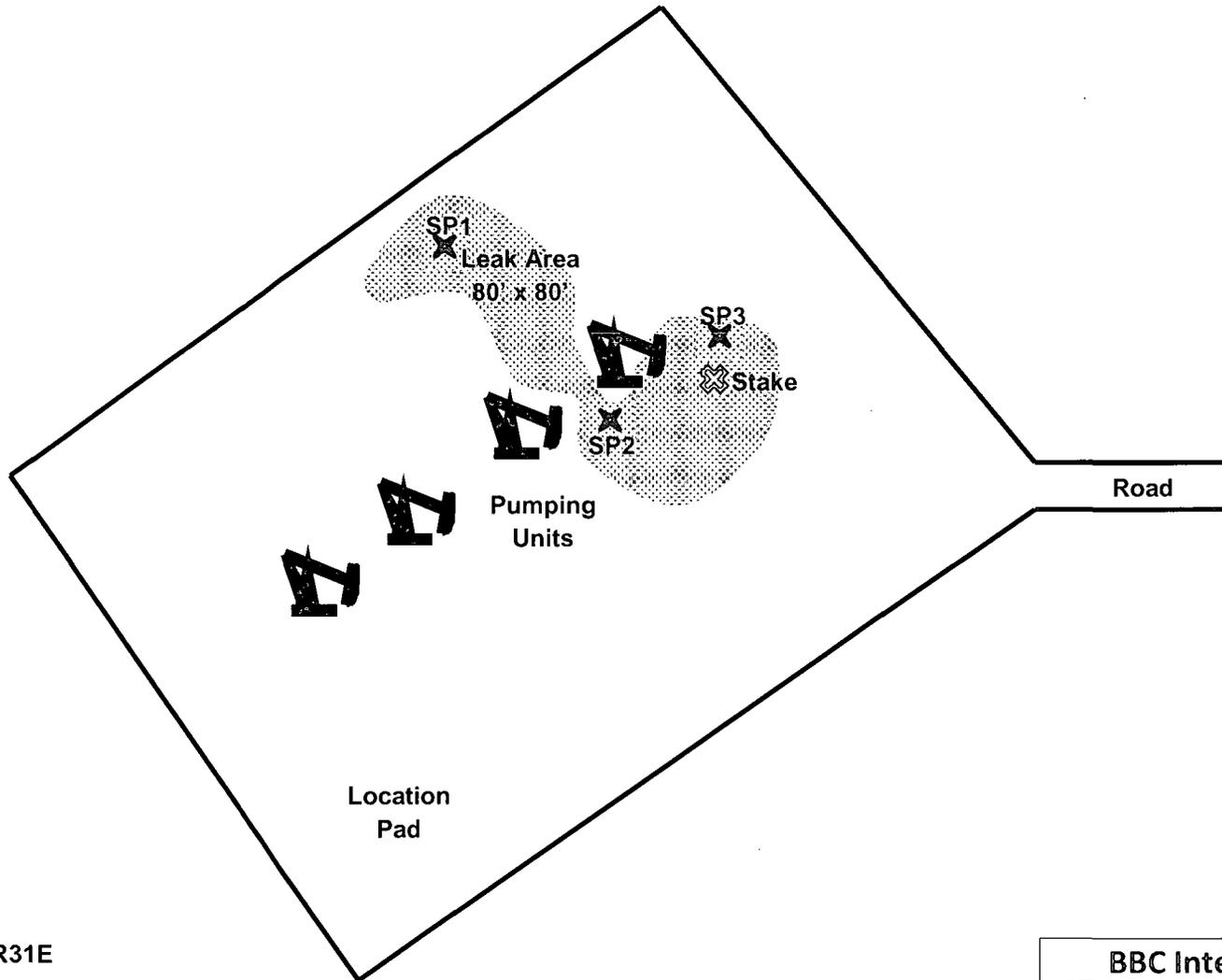
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger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

Signature:	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Chancey Summers	Approved by Environmental Specialist:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Chancey.Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 5-19-14	Phone: (575) 397-8216		

\* Attach Additional Sheets If Necessary



Oxy  
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

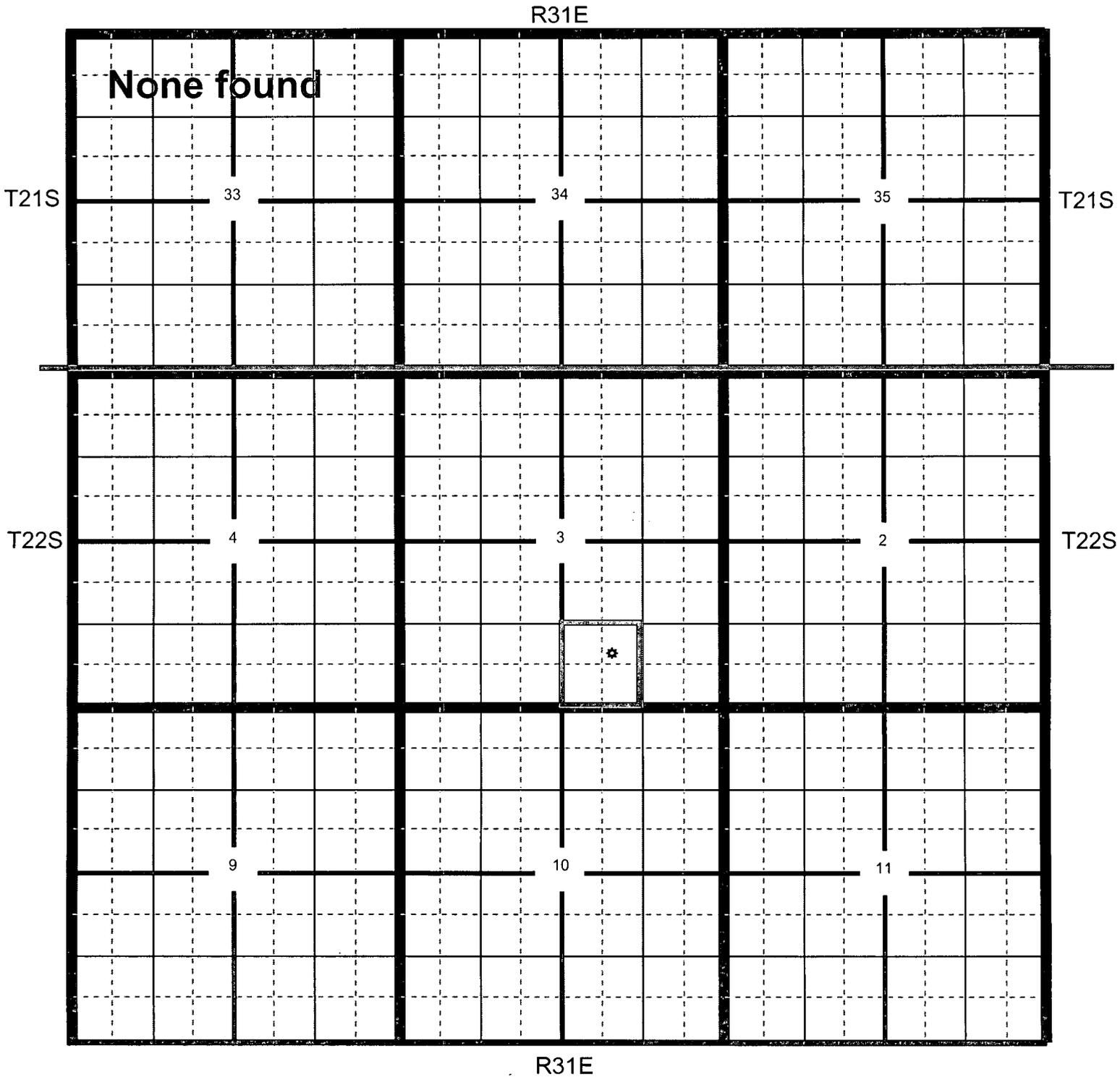
Unit Letter  
O

Section  
3

Township  
22S

Range  
31E

Trend Map 150'



☼ Location

○ OCD

○ USGS

○ SEO

○ All Databases

# Oxy Lost Tank 10 Federal #2

County Eddy      Unit Letter O      Section 3      Township 22S      Range 31E

Trend Map 150'

1

2

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

3

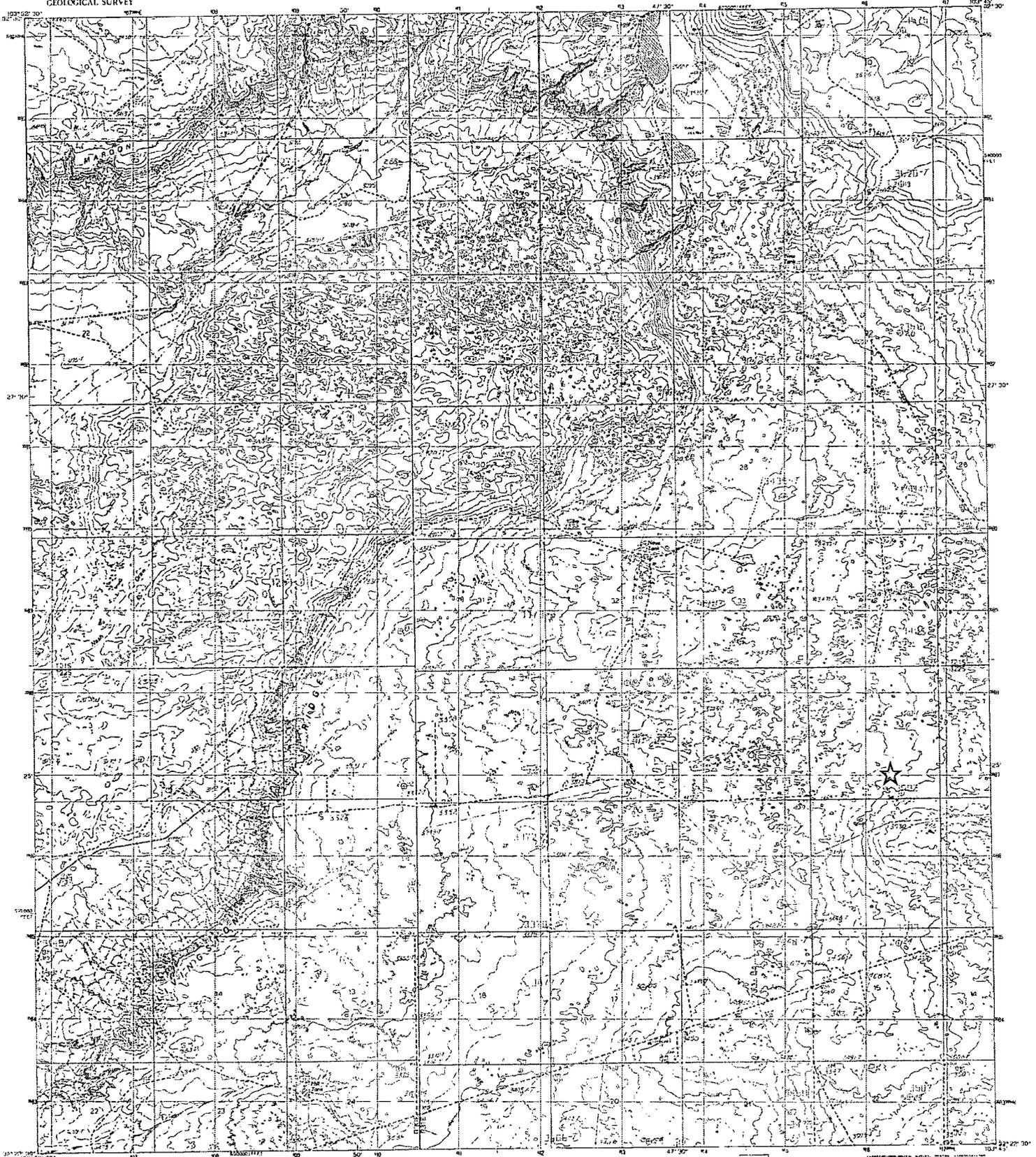
4

# Oxy

## Lost Tank 10 Federal #2

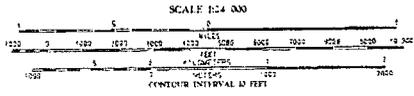
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LIVINGSTON RIDGE QUADRANGLE  
NEW MEXICO-EDDY CO.  
7.5 MINUTE SERIES (TOPOGRAPHIC)



PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY  
CONTAINS INFORMATION FROM THE NATIONAL MAP ACTUALS STANDARD  
MAP SERIES AND THE NATIONAL MAP ACTUALS STANDARD  
MAP SERIES. THIS MAP SERIES IS A REVISION OF THE  
GEOLOGICAL SURVEY'S 1:250,000 MAP SERIES. THE  
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1:250,000 MAP SERIES IS A REVISION OF THE  
GEOLOGICAL SURVEY'S 1:250,000 MAP SERIES.  
There may be private inclusions within the boundary of any  
Federal and State Government shown on this map.  
All marginal data and lettering prepared and positioned by  
approved type composing procedure.

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



NEW MEXICO

UN-IMPROVED ROAD

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

1:250,000 MAP

ROAD LEGEND

Improved Road  
Unimproved Road  
Trail

Locust Grove U.S. Route State Route

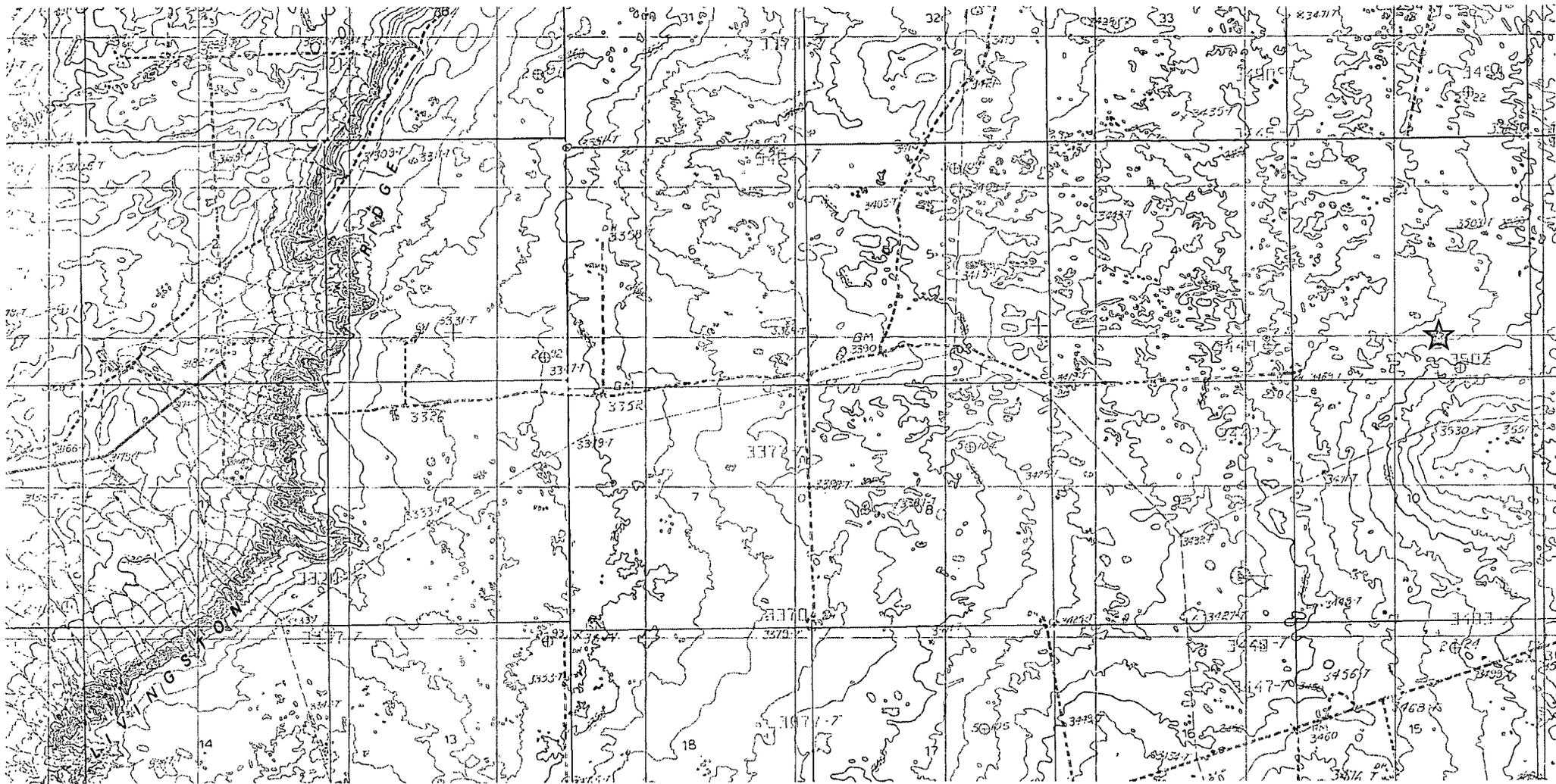
LIVINGSTON RIDGE, NEW MEXICO  
PROVISIONAL EDITION 1963

315507-11-011

THIS MAP COMPLETES WITH NATIONAL MAP ACTUALS STANDARD  
MAP SERIES BY U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 20508

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
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.119</b>	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>0.405</b>	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>1.66</b>	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>2.18</b>	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500CI-B		<b>28000</b>	<b>832</b>	<b>768</b>	<b>48</b>
<b>GRO</b>	TPH 8015M		<b>50.3</b>	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>11300</b>	<b>14.3</b>	<10.0	<10.0

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

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

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 [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 01/27/2014  
 Reported: 01/31/2014  
 Project Name: LOST TANK 10 #2  
 Project Number: 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 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*	<b>0.119</b>	0.050	01/30/2014	ND	2.35	117	2.00	0.0933	
Ethylbenzene*	<b>0.405</b>	0.050	01/30/2014	ND	2.32	116	2.00	0.108	
Total Xylenes*	<b>1.66</b>	0.150	01/30/2014	ND	6.88	115	6.00	1.47	
<b>Total BTEX</b>	<b>2.18</b>	0.300	01/30/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 157 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>28000</b>	16.0	01/30/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>50.3</b>	50.0	01/28/2014	ND	192	96.2	200	0.594	
<b>DRO &gt;C10-C28</b>	<b>11300</b>	50.0	01/28/2014	ND	183	91.4	200	2.51	

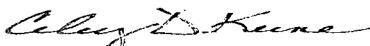
Surrogate: 1-Chlorooctane 98.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 446 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 01/27/2014  
 Reported: 01/31/2014  
 Project Name: LOST TANK 10 #2  
 Project Number: 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 1 @ 1' (H400247-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2014	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 (PID) 112 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>832</b>	16.0	01/30/2014	ND	400	100	400	8.33		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/28/2014	ND	192	96.2	200	0.594		
<b>DRO &gt;C10-C28</b>	<b>14.3</b>	10.0	01/28/2014	ND	183	91.4	200	2.51		

Surrogate: 1-Chlorooctane 92.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.8 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	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		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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/28/2014	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

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/27/2014	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 @ 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 (PIC) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>48.0</b>	16.0	01/30/2014	ND	400	100	400	8.33		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/28/2014	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.5 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/27/2014	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		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.053</b>	0.050	01/30/2014	ND	2.39	120	2.00	0.434		
<b>Toluene*</b>	<b>0.089</b>	0.050	01/30/2014	ND	2.35	117	2.00	0.0933		
<b>Ethylbenzene*</b>	<b>0.106</b>	0.050	01/30/2014	ND	2.32	116	2.00	0.108		
<b>Total Xylenes*</b>	<b>0.406</b>	0.150	01/30/2014	ND	6.88	115	6.00	1.47		
<b>Total BTEX</b>	<b>0.654</b>	0.300	01/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 127 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>24400</b>	16.0	01/30/2014	ND	400	100	400	8.33		

TPH 8015M		mg/kg		Analyzed By: ms				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	01/28/2014	ND	192	96.2	200	0.594		
<b>DRO &gt;C10-C28</b>	<b>27100</b>	100	01/28/2014	ND	183	91.4	200	2.51		

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 2020 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/27/2014	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 @ 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 (PIE) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/30/2014	ND	400	100	400	8.33		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/28/2014	ND	192	96.2	200	0.594		
<b>DRO &gt;C10-C28</b>	<b>11.6</b>	10.0	01/28/2014	ND	183	91.4	200	2.51		

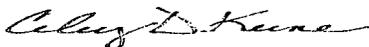
Surrogate: 1-Chlorooctane 98.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.8 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 01/27/2014  
 Reported: 01/31/2014  
 Project Name: LOST TANK 10 #2  
 Project Number: 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		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*	<b>0.167</b>	0.050	01/30/2014	ND	2.35	117	2.00	0.0933		
Ethylbenzene*	<b>0.521</b>	0.050	01/30/2014	ND	2.32	116	2.00	0.108		
Total Xylenes*	<b>2.15</b>	0.150	01/30/2014	ND	6.88	115	6.00	1.47		
<b>Total BTEX</b>	<b>2.84</b>	0.300	01/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 170 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>20800</b>	16.0	01/30/2014	ND	400	100	400	8.33		

TPH 8015M		mg/kg		Analyzed By: ms					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>54.6</b>	50.0	01/28/2014	ND	192	96.2	200	0.594		
<b>DRO &gt;C10-C28</b>	<b>12900</b>	50.0	01/28/2014	ND	183	91.4	200	2.51		

Surrogate: 1-Chlorooctane 71.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 537 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/27/2014	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 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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/28/2014	ND	192	96.2	200	0.594		
DRO >C10-C28	10.4	10.0	01/28/2014	ND	183	91.4	200	2.51		

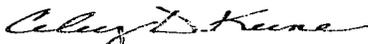
Surrogate: 1-Chlorooctane 98.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.3 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

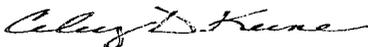
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED 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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\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



## 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 <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)> wrote:  
Jennifer,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by 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](mailto:cbrunson@bbcinternational.com)

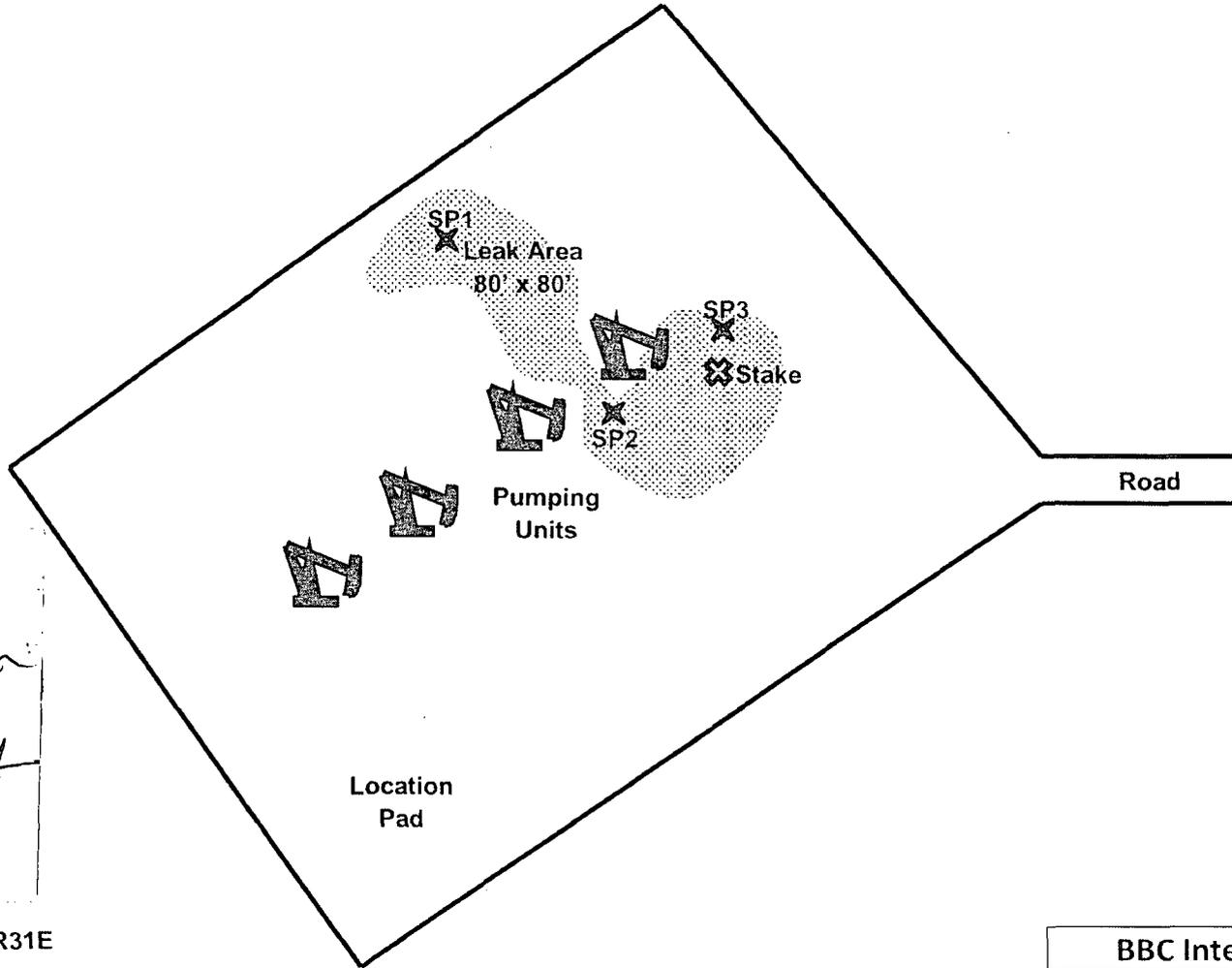
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\*\*\*\*\*



Oxy  
Lost Tank 10 Federal #2



*Remediation  
Packet  
Attachment*

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

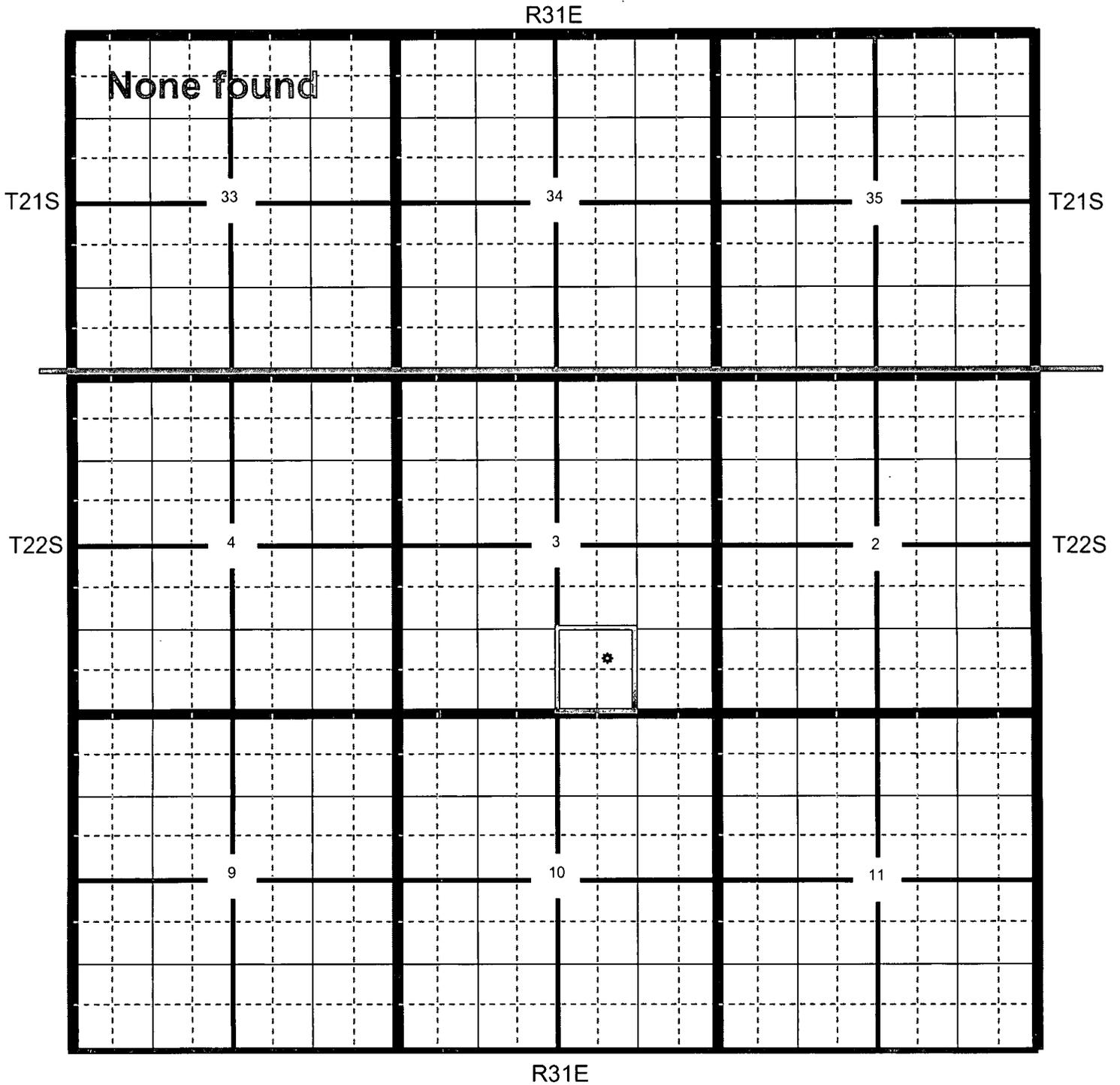
Unit Letter  
O

Section  
3

Township  
22S

Range  
31E

Trend Map 150'



★ Location

○ OCD

○ USGS

○ SEO

● All Databases



Section Quarters

Oxy Lost Tank 10 Federal #2

<i>County</i> Eddy	<i>Unit Letter</i> O	<i>Section</i> 3	<i>Township</i> 22S	<i>Range</i> 31E
-----------------------	-------------------------	---------------------	------------------------	---------------------

Trend Map 150'

1

2

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

3

4

Location     
  OCD     
  USGS     
  SEO     
  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
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
<b>Toluene</b>	BTEX 8021B		<b>0.119</b>	<0.050	<0.050	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		<b>0.405</b>	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	BTEX 8021B		<b>1.66</b>	<0.150	<0.150	<0.150
<b>Total BTEX</b>	BTEX 8021B		<b>2.18</b>	<0.300	<0.300	<0.300
<b>Chloride</b>	SM4500CI-B		<b>28000</b>	<b>832</b>	<b>768</b>	<b>48</b>
<b>GRO</b>	TPH 8015M		<b>50.3</b>	<10.0	<10.0	<10.0
<b>DRO</b>	TPH 8015M		<b>11300</b>	<b>14.3</b>	<10.0	<10.0

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

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

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 [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 01/27/2014  
 Reported: 01/31/2014  
 Project Name: LOST TANK 10 #2  
 Project Number: 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 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*	<b>0.119</b>	0.050	01/30/2014	ND	2.35	117	2.00	0.0933		
Ethylbenzene*	<b>0.405</b>	0.050	01/30/2014	ND	2.32	116	2.00	0.108		
Total Xylenes*	<b>1.66</b>	0.150	01/30/2014	ND	6.88	115	6.00	1.47		
<b>Total BTEX</b>	<b>2.18</b>	0.300	01/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 157 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>28000</b>	16.0	01/30/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>50.3</b>	50.0	01/28/2014	ND	192	96.2	200	0.594		
<b>DRO &gt;C10-C28</b>	<b>11300</b>	50.0	01/28/2014	ND	183	91.4	200	2.51		

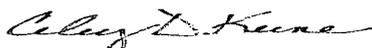
Surrogate: 1-Chlorooctane 98.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 446 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/27/2014	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 @ 1' (H400247-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/30/2014	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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	01/30/2014	ND	400	100	400	8.33		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/28/2014	ND	192	96.2	200	0.594		
DRO >C10-C28	14.3	10.0	01/28/2014	ND	183	91.4	200	2.51		

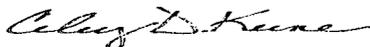
Surrogate: 1-Chlorooctane 92.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.8 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/27/2014	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		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 % 89.4-126*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>768</b>	16.0	01/30/2014	ND	400	100	400	8.33		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/28/2014	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*
*Surrogate: 1-Chlorooctadecane 106 % 63.6-154*

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/27/2014	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 @ 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 (PIE) 110 % 89.4-126*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>48.0</b>	16.0	01/30/2014	ND	400	100	400	8.33		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/28/2014	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 % 65.2-140*
*Surrogate: 1-Chlorooctadecane 86.5 % 63.6-154*

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/27/2014	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		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.053</b>	0.050	01/30/2014	ND	2.39	120	2.00	0.434		
<b>Toluene*</b>	<b>0.089</b>	0.050	01/30/2014	ND	2.35	117	2.00	0.0933		
<b>Ethylbenzene*</b>	<b>0.106</b>	0.050	01/30/2014	ND	2.32	116	2.00	0.108		
<b>Total Xylenes*</b>	<b>0.406</b>	0.150	01/30/2014	ND	6.88	115	6.00	1.47		
<b>Total BTEX</b>	<b>0.654</b>	0.300	01/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 127 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>24400</b>	16.0	01/30/2014	ND	400	100	400	8.33		

TPH 8015M		mg/kg		Analyzed By: ms				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	01/28/2014	ND	192	96.2	200	0.594		
<b>DRO &gt;C10-C28</b>	<b>27100</b>	100	01/28/2014	ND	183	91.4	200	2.51		

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 2020 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/27/2014	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 @ 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 (PIC) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/30/2014	ND	400	100	400	8.33		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/28/2014	ND	192	96.2	200	0.594		
<b>DRO &gt;C10-C28</b>	<b>11.6</b>	10.0	01/28/2014	ND	183	91.4	200	2.51		

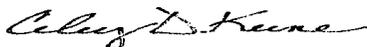
Surrogate: 1-Chlorooctane 98.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.8 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	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 3 @ SURFACE (H400247-07)**

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*	<b>0.167</b>	0.050	01/30/2014	ND	2.35	117	2.00	0.0933		
Ethylbenzene*	<b>0.521</b>	0.050	01/30/2014	ND	2.32	116	2.00	0.108		
<b>Total Xylenes*</b>	<b>2.15</b>	0.150	01/30/2014	ND	6.88	115	6.00	1.47		
<b>Total BTEX</b>	<b>2.84</b>	0.300	01/30/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 170 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>20800</b>	16.0	01/30/2014	ND	400	100	400	8.33		

TPH 8015M		mg/kg		Analyzed By: ms					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>54.6</b>	50.0	01/28/2014	ND	192	96.2	200	0.594		
<b>DRO &gt;C10-C28</b>	<b>12900</b>	50.0	01/28/2014	ND	183	91.4	200	2.51		

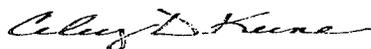
Surrogate: 1-Chlorooctane 71.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 537 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/27/2014	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 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 % 89.4-126*

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/28/2014	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 % 65.2-140*
*Surrogate: 1-Chlorooctadecane 97.3 % 63.6-154*

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**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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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: BBC International, Inc.		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>							
Project Manager: Cliff Brunson		P.O. #:									
Address: P.O. Box 805		Company:									
City: Hobbs State: NM Zip: 88241		Attn:									
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:									
Project #: Project Owner: OKC		City: <i>Good</i>									
Project Name: Cost tank 10 #2		State: Zip:									
Project Location: Whipp site		Phone #:									
Sampler Name: GIL		Fax #:									

FOR LAB USE ONLY		GRAB OR (C)OMP	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		CL	TPH	SPEL
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER	DATE			
H400247															
1	SP2@ Surface	6	1		X				X	1-21-19	9:00	X	X		
2	SP2@ 2FT	6	1		X				X	1-21-19	9:30	X	X		
3	SP2@ 3FT	6	1		X				X	1-21-19	9:45	X	X		
4	SP2@ 5FT	6	1		X				X	1-21-19	10:05	X	X		
5	SP2@ Surface	6	1		X				X	1-21-19	10:25	X	X		
6	SP2@ 2FT	6	1		X				X	1-21-19	10:38	X	X		
7	SP2@ Surface	6	1		X				X	1-21-19	11:00	X	X		
8	SP2@ 2FT	6	1		X				X	1-21-19	11:15	X	X		

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

Relinquished By:	Date: 1/27/19	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: 1/27/19	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 4.7°C	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> No	CHECKED BY: (Initials) 	REMARKS:	

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

#54

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
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

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

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

**OPERATOR**  Initial Report  Final Report

Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	Lost Tank 10 Federal #2	Facility Type	Well location
Surface Owner	BLM	Mineral Owner	API No. 30-015-37960

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	3	22S	31E	840	South	1838	East	Eddy

Latitude N 32.415595°

Longitude W 103.763146°

**NATURE OF RELEASE**

Type of Release	Oil and Produced Water	Volume of Release	10 bbls oil, 5 bbls produced water	Volume Recovered	0 bbls
Source of Release	4" needle valve on circulating line broke off	Date and Hour of Occurrence	10/01/2013	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher-NMOCD; Jennifer Van Curen-BLM		
By Whom?	Chancey Summers	Date and Hour	10/07/2013 @ 10:14 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

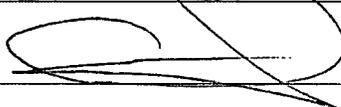
**RECEIVED**  
MAY 23 2014  
NMOCD ARTESIA

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*  
Area livestock have been rubbing the circulating line causing the 4" needle valve to break off and allow 10 bbls of oil and 5 bbls of produced water to leak onto the ground. No fluids were recovered and the valve was repaired/replaced.

Describe Area Affected and Cleanup Action Taken.\*  
The area affected was approximately 20' x 40' with all of the leak staying on location. Remediation will be conducted in accordance with a plan approved by NMOCD and the BLM.

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

Signature:		<u>OIL CONSERVATION DIVISION</u>	
Printed Name:	Chancey Summers	Approved by Environmental Specialist:	
Title:	HES Specialist	Approval Date:	Expiration Date:
E-mail Address:	Chancey.Summers@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date:	10/15/13	Phone:	(575) 397-8216

\* Attach Additional Sheets If Necessary