



DELINEATION WORKPLAN

OXY – RED TANK 28 FEDERAL #4 (Leak Date: 3/15/17)

**RP # 1RP-4658
API # 30-025-36009**

This delineation workplan and remediation proposal addresses the release associated with RP # 1RP-4658.

The following information includes:

1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
2. GPS information for sample points and sample methodology
3. Depth to groundwater information (i.e., pdf of OSE search results and/or copy of Chevron groundwater trend map).
4. Laboratory analysis results summary table and original laboratory analysis reports
5. A copy of the initial C-141
6. Potentially other pertinent information as necessary for site specific purposes.

Based on the information included in this package and the NMOCD guidelines, the following remediation is proposed:

OXY will excavate the spill area as depicted on the following site diagram. The entire leak area will be excavated to a depth of 1 foot.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.

Oxy, Red Tank 28 Federal #4

Leak date: 3/15/17
Lea County, NM
API# 30-025-36009
RP# 1RP-4658

Legend

- 1 ft Excavation across entire leak area
- Cardinal sample points, hand auger
- Leak Area
- Sample points, hand auger



Oxy, Red Tank 28 Federal #4

Sample points, hand auger

SP1, N 32.35628 W-103.67864

SP2, N 32.35634 W-103.67879

SP3, N 32.35637 W-103.67892

SP4, N 32.35631 W-103.67871

SP5, N 32.35647 W-103.67892

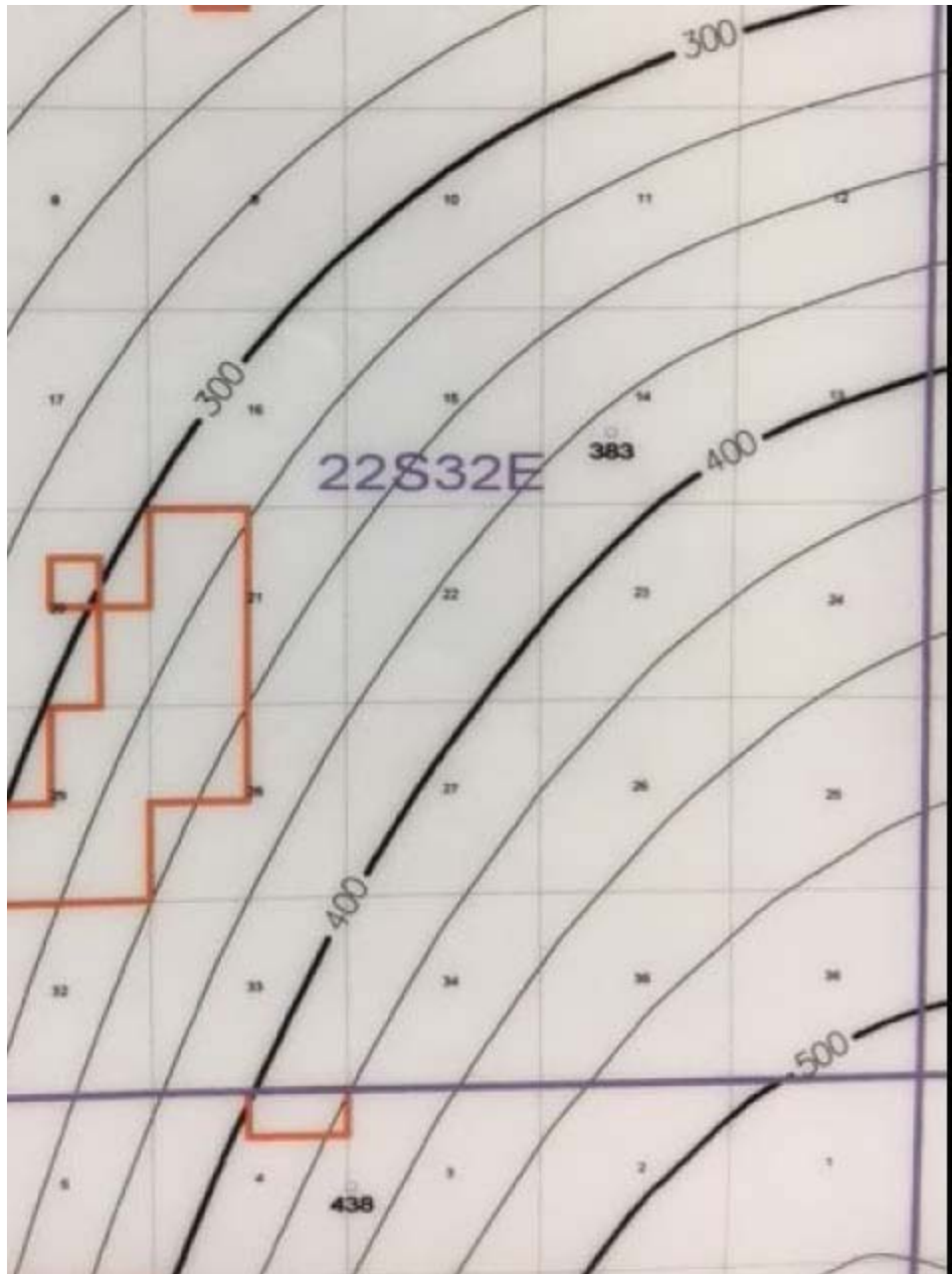
NORTH, N 32.35651 W-103.67892

SOUTH, N 32.35623 W-103.67861

EAST, N 32.35628 W-103.67862

WEST, N 32.35636 W-103.67901

Oxy, Red Tank 28 Federal #004
U/L O, Section 28, T22S, R32E
Groundwater: 375'





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 624435

Northing (Y): 3580796

Radius: 1700

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/28/17 9:36 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Public Land Survey System (PLSS)

Q64:

Q16:

SW

Q4:

SE

Sec:

28

Tws:

22S

Rng:

32E

State Plane Coordinate System - NAD27

X:

0

ft

Y:

0

ft

Zone:

State Plane Coordinate System - NAD83

X:

0

ft

Y:

0

ft

Zone:

Degrees/Minutes/Seconds

Longitude (X):

Degrees:

0

°

Minutes:

0

'

Seconds:

0

"

Latitude (Y):

Degrees:

0

°

Minutes:

0

'

Seconds:

0

"

UTM - NAD27

Easting (X):

0

mtrs

Northing (Y):

0

mtrs

Zone:

SUBMIT

All Conversion Results are displayed as NAD 1983 UTM Zone 13

Easting (X):

624435.0

mtrs

Northing (Y):

3580796.0

mtrs

~~ Please keep screen open to copy UTM values for Reports. ~~

Laboratory Analytical Results Summary
Red Tank 28 Federal #004

Analyte	Method	Sample		SP1 @ 1'		SP1 @ 2'		SP1 @ 7'	
		Date		4/13/17	mg/Kg	4/13/17	mg/Kg	4/13/17	mg/Kg
Benzene	BTEX 8021B				<0.050	<0.050	<0.050		<0.050
Toluene	BTEX 8021B				<0.050	<0.050	<0.050		<0.050
Ethylbenzene	BTEX 8021B				<0.050	<0.050	<0.050		<0.050
Total Xylenes	BTEX 8021B				<0.150	<0.150	<0.150		<0.150
Total BTEX	BTEX 8021B				<0.300	<0.300	<0.300		<0.300
Chloride	SM4500Cl-B				4400	384			176
GRO	TPH 8015M				<10.0	<10.0	<10.0		<10.0
DRO	TPH 8015M				<10.0	<10.0	<10.0		<10.0

Analyte	Method	Sample		SP2 @ 1'		SP2 @ 2'		SP2 @ 7'	
		Date		4/13/17	mg/Kg	4/13/17	mg/Kg	4/13/17	mg/Kg
Benzene	BTEX 8021B				<0.050	<0.050	<0.050		<0.050
Toluene	BTEX 8021B				<0.050	<0.050	<0.050		<0.050
Ethylbenzene	BTEX 8021B				<0.050	<0.050	<0.050		<0.050
Total Xylenes	BTEX 8021B				<0.150	<0.150	<0.150		<0.150
Total BTEX	BTEX 8021B				<0.300	<0.300	<0.300		<0.300
Chloride	SM4500Cl-B				2840	464			176
GRO	TPH 8015M				<10.0	<10.0	<10.0		<10.0
DRO	TPH 8015M				<10.0	<10.0	<10.0		<10.0

Analyte	Method	Sample		SP3 @ 1'		SP3 @ 2'		SP3 @ 7'	
		Date		4/13/17	mg/Kg	4/13/17	mg/Kg	4/13/17	mg/Kg
Benzene	BTEX 8021B				<0.050	<0.050	<0.050		<0.050
Toluene	BTEX 8021B				<0.050	<0.050	<0.050		<0.050
Ethylbenzene	BTEX 8021B				<0.050	<0.050	<0.050		<0.050
Total Xylenes	BTEX 8021B				<0.150	<0.150	<0.150		<0.150
Total BTEX	BTEX 8021B				<0.300	<0.300	<0.300		<0.300
Chloride	SM4500Cl-B				4800	272			192
GRO	TPH 8015M				<10.0	<10.0	<10.0		<10.0
DRO	TPH 8015M				<10.0	<10.0	<10.0		<10.0

Analyte	Method	Sample		SP4 @ 1'		SP4 @ 2'		SP4 @ 7'	
		Date		4/14/17	mg/Kg	4/14/17	mg/Kg	4/14/17	mg/Kg
Benzene	BTEX 8021B				<0.050	<0.050	<0.050		<0.050
Toluene	BTEX 8021B				<0.050	<0.050	<0.050		<0.050
Ethylbenzene	BTEX 8021B				<0.050	<0.050	<0.050		<0.050
Total Xylenes	BTEX 8021B				<0.150	<0.150	<0.150		<0.150
Total BTEX	BTEX 8021B				<0.300	<0.300	<0.300		<0.300
Chloride	SM4500Cl-B				432	48			16
GRO	TPH 8015M				<10.0	<10.0	<10.0		<10.0
DRO	TPH 8015M				34.4	<10.0	<10.0		<10.0

Analyte	Method	Sample		SP5 @ 1'		SP5 @ 2'		SP5 @ 7'	
		Date		4/14/17	mg/Kg	4/14/17	mg/Kg	4/14/17	mg/Kg
Benzene	BTEX 8021B				<0.050	<0.050	<0.050		<0.050
Toluene	BTEX 8021B				<0.050	<0.050	<0.050		<0.050
Ethylbenzene	BTEX 8021B				<0.050	<0.050	<0.050		<0.050
Total Xylenes	BTEX 8021B				<0.150	<0.150	<0.150		<0.150
Total BTEX	BTEX 8021B				<0.300	<0.300	<0.300		<0.300
Chloride	SM4500Cl-B				160	48			32
GRO	TPH 8015M				<10.0	<10.0	<10.0		<10.0
DRO	TPH 8015M				<10.0	<10.0	<10.0		<10.0

Analyte	Method	Sample		NORTH @ 1'	
		Date		4/13/17	mg/Kg
Benzene	BTEX 8021B				<0.050
Toluene	BTEX 8021B				<0.050
Ethylbenzene	BTEX 8021B				<0.050
Total Xylenes	BTEX 8021B				<0.150
Total BTEX	BTEX 8021B				<0.300
Chloride	SM4500Cl-B				32
GRO	TPH 8015M				<10.0
DRO	TPH 8015M				<10.0

Analyte	Method	Sample		SOUTH @ 1'	
		Date		4/13/17	mg/Kg
Benzene	BTEX 8021B				<0.050
Toluene	BTEX 8021B				<0.050
Ethylbenzene	BTEX 8021B				<0.050
Total Xylenes	BTEX 8021B				<0.150
Total BTEX	BTEX 8021B				<0.300
Chloride	SM4500Cl-B				16
GRO	TPH 8015M				<10.0
DRO	TPH 8015M				<10.0

Analyte	Method	Sample		EAST @ 1'	
		Date		4/13/17	mg/Kg
Benzene	BTEX 8021B				<0.050
Toluene	BTEX 8021B				<0.050
Ethylbenzene	BTEX 8021B				<0.050
Total Xylenes	BTEX 8021B				<0.150
Total BTEX	BTEX 8021B				<0.300
Chloride	SM4500Cl-B				32
GRO	TPH 8015M				<10.0
DRO	TPH 8015M				<10.0

Analyte	Method	Sample		WEST @ 1'	
		Date		4/13/17	mg/Kg
Benzene	BTEX 8021B				<0.050
Toluene	BTEX 8021B				<0.050
Ethylbenzene	BTEX 8021B				<0.050
Total Xylenes	BTEX 8021B				<0.150
Total BTEX	BTEX 8021B				<0.300
Chloride	SM4500Cl-B				<16.0
GRO	TPH 8015M				<10.0
DRO	TPH 8015M				<10.0



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

April 24, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RED TANK 28 FEDERAL #4

Enclosed are the results of analyses for samples received by the laboratory on 04/17/17 11:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/17/2017	Sampling Date:	04/13/2017
Reported:	04/24/2017	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 @ 1' (H701012-01)

BTX 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	04/22/2017	ND	1.93	96.7	2.00	0.252	
Toluene*	<0.050	0.050	04/22/2017	ND	1.83	91.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	04/22/2017	ND	1.86	92.9	2.00	0.815	
Total Xylenes*	<0.150	0.150	04/22/2017	ND	5.30	88.4	6.00	0.682	
Total BTX	<0.300	0.300	04/22/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4400	16.0	04/24/2017	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/19/2017	ND	184	92.2	200	4.69	
DRO >C10-C28	<10.0	10.0	04/19/2017	ND	202	101	200	4.42	

Surrogate: 1-Chlorooctane 131 % 28.3-164

Surrogate: 1-Chlorooctadecane 149 % 34.7-157

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Received:	04/17/2017	Sampling Date:	04/13/2017
Reported:	04/24/2017	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 @ 2' (H701012-02)

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	04/22/2017	ND	1.93	96.7	2.00	0.252	
Toluene*	<0.050	0.050	04/22/2017	ND	1.83	91.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	04/22/2017	ND	1.86	92.9	2.00	0.815	
Total Xylenes*	<0.150	0.150	04/22/2017	ND	5.30	88.4	6.00	0.682	
Total BTEX	<0.300	0.300	04/22/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	04/24/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/19/2017	ND	184	92.2	200	4.69	
DRO >C10-C28	<10.0	10.0	04/19/2017	ND	202	101	200	4.42	

Surrogate: 1-Chlorooctane 114 % 28.3-164

Surrogate: 1-Chlorooctadecane 124 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	04/17/2017	Sampling Date:	04/13/2017
Reported:	04/24/2017	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 @ 7' (H701012-03)

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	04/22/2017	ND	1.93	96.7	2.00	0.252	
Toluene*	<0.050	0.050	04/22/2017	ND	1.83	91.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	04/22/2017	ND	1.86	92.9	2.00	0.815	
Total Xylenes*	<0.150	0.150	04/22/2017	ND	5.30	88.4	6.00	0.682	
Total BTEx	<0.300	0.300	04/22/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/24/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/19/2017	ND	184	92.2	200	4.69	
DRO >C10-C28	<10.0	10.0	04/19/2017	ND	202	101	200	4.42	

Surrogate: 1-Chlorooctane 118 % 28.3-164

Surrogate: 1-Chlorooctadecane 130 % 34.7-157

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Received:	04/17/2017	Sampling Date:	04/13/2017
Reported:	04/24/2017	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 2 @ 1' (H701012-04)

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	04/22/2017	ND	1.93	96.7	2.00	0.252	
Toluene*	<0.050	0.050	04/22/2017	ND	1.83	91.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	04/22/2017	ND	1.86	92.9	2.00	0.815	
Total Xylenes*	<0.150	0.150	04/22/2017	ND	5.30	88.4	6.00	0.682	
Total BTEx	<0.300	0.300	04/22/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	04/24/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/19/2017	ND	184	92.2	200	4.69	
DRO >C10-C28	<10.0	10.0	04/19/2017	ND	202	101	200	4.42	

Surrogate: 1-Chlorooctane 116 % 28.3-164

Surrogate: 1-Chlorooctadecane 128 % 34.7-157

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Received:	04/17/2017	Sampling Date:	04/13/2017
Reported:	04/24/2017	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 2 @ 2' (H701012-05)

BTX 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	04/22/2017	ND	1.93	96.7	2.00	0.252		
Toluene*	<0.050	0.050	04/22/2017	ND	1.83	91.3	2.00	1.51		
Ethylbenzene*	<0.050	0.050	04/22/2017	ND	1.86	92.9	2.00	0.815		
Total Xylenes*	<0.150	0.150	04/22/2017	ND	5.30	88.4	6.00	0.682		
Total BTX	<0.300	0.300	04/22/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	04/24/2017	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/19/2017	ND	184	92.2	200	4.69	
DRO >C10-C28	<10.0	10.0	04/19/2017	ND	202	101	200	4.42	

Surrogate: 1-Chlorooctane 153 % 28.3-164

Surrogate: 1-Chlorooctadecane 170 % 34.7-157

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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:	04/17/2017	Sampling Date:	04/13/2017
Reported:	04/24/2017	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 2 @ 7' (H701012-06)

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	04/22/2017	ND	1.93	96.7	2.00	0.252		
Toluene*	<0.050	0.050	04/22/2017	ND	1.83	91.3	2.00	1.51		
Ethylbenzene*	<0.050	0.050	04/22/2017	ND	1.86	92.9	2.00	0.815		
Total Xylenes*	<0.150	0.150	04/22/2017	ND	5.30	88.4	6.00	0.682		
Total BTEx	<0.300	0.300	04/22/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/24/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/20/2017	ND	184	92.2	200	4.69	
DRO >C10-C28	<10.0	10.0	04/20/2017	ND	202	101	200	4.42	

Surrogate: 1-Chlorooctane 116 % 28.3-164

Surrogate: 1-Chlorooctadecane 129 % 34.7-157

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Analytical Results For:

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

Received:	04/17/2017	Sampling Date:	04/13/2017
Reported:	04/24/2017	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 @ 1' (H701012-07)

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	04/22/2017	ND	1.93	96.7	2.00	0.252		
Toluene*	<0.050	0.050	04/22/2017	ND	1.83	91.3	2.00	1.51		
Ethylbenzene*	<0.050	0.050	04/22/2017	ND	1.86	92.9	2.00	0.815		
Total Xylenes*	<0.150	0.150	04/22/2017	ND	5.30	88.4	6.00	0.682		
Total BTEx	<0.300	0.300	04/22/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	04/24/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/20/2017	ND	184	92.2	200	4.69	
DRO >C10-C28	<10.0	10.0	04/20/2017	ND	202	101	200	4.42	

Surrogate: 1-Chlorooctane 134 % 28.3-164

Surrogate: 1-Chlorooctadecane 137 % 34.7-157

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Cliff Brunson
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Fax To: (575) 397-0397

Received:	04/17/2017	Sampling Date:	04/13/2017
Reported:	04/24/2017	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 @ 2' (H701012-08)

BTX 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	04/22/2017	ND	1.93	96.7	2.00	0.252		
Toluene*	<0.050	0.050	04/22/2017	ND	1.83	91.3	2.00	1.51		
Ethylbenzene*	<0.050	0.050	04/22/2017	ND	1.86	92.9	2.00	0.815		
Total Xylenes*	<0.150	0.150	04/22/2017	ND	5.30	88.4	6.00	0.682		
Total BTX	<0.300	0.300	04/22/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 72-148

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	04/24/2017	ND	448	112	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/20/2017	ND	184	92.2	200	4.69		
DRO >C10-C28	<10.0	10.0	04/20/2017	ND	202	101	200	4.42		

Surrogate: 1-Chlorooctane 136 % 28.3-164

Surrogate: 1-Chlorooctadecane 144 % 34.7-157

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Fax To: (575) 397-0397

Received:	04/17/2017	Sampling Date:	04/13/2017
Reported:	04/24/2017	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 @ 7' (H701012-09)

BTX 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	04/22/2017	ND	1.93	96.7	2.00	0.252	
Toluene*	<0.050	0.050	04/22/2017	ND	1.83	91.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	04/22/2017	ND	1.86	92.9	2.00	0.815	
Total Xylenes*	<0.150	0.150	04/22/2017	ND	5.30	88.4	6.00	0.682	
Total BTX	<0.300	0.300	04/22/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/24/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/20/2017	ND	184	92.2	200	4.69	
DRO >C10-C28	<10.0	10.0	04/20/2017	ND	202	101	200	4.42	

Surrogate: 1-Chlorooctane 120 % 28.3-164

Surrogate: 1-Chlorooctadecane 132 % 34.7-157

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Fax To: (575) 397-0397

Received:	04/17/2017	Sampling Date:	04/13/2017
Reported:	04/24/2017	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: NORTH @ 1' (H701012-10)

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	04/22/2017	ND	1.93	96.7	2.00	0.252		
Toluene*	<0.050	0.050	04/22/2017	ND	1.83	91.3	2.00	1.51		
Ethylbenzene*	<0.050	0.050	04/22/2017	ND	1.86	92.9	2.00	0.815		
Total Xylenes*	<0.150	0.150	04/22/2017	ND	5.30	88.4	6.00	0.682		
Total BTEx	<0.300	0.300	04/22/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/24/2017	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/20/2017	ND	184	92.2	200	4.69	
DRO >C10-C28	<10.0	10.0	04/20/2017	ND	202	101	200	4.42	

Surrogate: 1-Chlorooctane 137 % 28.3-164

Surrogate: 1-Chlorooctadecane 151 % 34.7-157

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Fax To: (575) 397-0397

Received:	04/17/2017	Sampling Date:	04/13/2017
Reported:	04/24/2017	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SOUTH @ 1' (H701012-11)

BTX 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	04/22/2017	ND	1.93	96.7	2.00	0.252		
Toluene*	<0.050	0.050	04/22/2017	ND	1.83	91.3	2.00	1.51		
Ethylbenzene*	<0.050	0.050	04/22/2017	ND	1.86	92.9	2.00	0.815		
Total Xylenes*	<0.150	0.150	04/22/2017	ND	5.30	88.4	6.00	0.682		
Total BTX	<0.300	0.300	04/22/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/24/2017	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/20/2017	ND	184	92.2	200	4.69	
DRO >C10-C28	<10.0	10.0	04/20/2017	ND	202	101	200	4.42	

Surrogate: 1-Chlorooctane 129 % 28.3-164

Surrogate: 1-Chlorooctadecane 134 % 34.7-157

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

Received:	04/17/2017	Sampling Date:	04/13/2017
Reported:	04/24/2017	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: EAST @ 1' (H701012-12)

BTX 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	04/22/2017	ND	1.93	96.7	2.00	0.252		
Toluene*	<0.050	0.050	04/22/2017	ND	1.83	91.3	2.00	1.51		
Ethylbenzene*	<0.050	0.050	04/22/2017	ND	1.86	92.9	2.00	0.815		
Total Xylenes*	<0.150	0.150	04/22/2017	ND	5.30	88.4	6.00	0.682		
Total BTX	<0.300	0.300	04/22/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/24/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/20/2017	ND	199	99.3	200	2.60	
DRO >C10-C28	<10.0	10.0	04/20/2017	ND	214	107	200	6.26	

Surrogate: 1-Chlorooctane 82.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 89.5 % 34.7-157

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

Received:	04/17/2017	Sampling Date:	04/13/2017
Reported:	04/24/2017	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: WEST @ 1' (H701012-13)

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	04/22/2017	ND	1.93	96.7	2.00	0.252	
Toluene*	<0.050	0.050	04/22/2017	ND	1.83	91.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	04/22/2017	ND	1.86	92.9	2.00	0.815	
Total Xylenes*	<0.150	0.150	04/22/2017	ND	5.30	88.4	6.00	0.682	
Total BTEx	<0.300	0.300	04/22/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/24/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/20/2017	ND	199	99.3	200	2.60	
DRO >C10-C28	<10.0	10.0	04/20/2017	ND	214	107	200	6.26	

Surrogate: 1-Chlorooctane 89.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.0 % 34.7-157

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Fax To: (575) 397-0397

Received:	04/17/2017	Sampling Date:	04/14/2017
Reported:	04/24/2017	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 4 @ 1' (H701012-14)

BTX 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	04/22/2017	ND	1.93	96.7	2.00	0.252	
Toluene*	<0.050	0.050	04/22/2017	ND	1.83	91.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	04/22/2017	ND	1.86	92.9	2.00	0.815	
Total Xylenes*	<0.150	0.150	04/22/2017	ND	5.30	88.4	6.00	0.682	
Total BTX	<0.300	0.300	04/22/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	04/24/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/20/2017	ND	199	99.3	200	2.60	
DRO >C10-C28	34.4	10.0	04/20/2017	ND	214	107	200	6.26	

Surrogate: 1-Chlorooctane 91.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 96.7 % 34.7-157

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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:	04/17/2017	Sampling Date:	04/14/2017
Reported:	04/24/2017	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 4 @ 2' (H701012-15)

BTX 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	04/22/2017	ND	1.93	96.7	2.00	0.252		
Toluene*	<0.050	0.050	04/22/2017	ND	1.83	91.3	2.00	1.51		
Ethylbenzene*	<0.050	0.050	04/22/2017	ND	1.86	92.9	2.00	0.815		
Total Xylenes*	<0.150	0.150	04/22/2017	ND	5.30	88.4	6.00	0.682		
Total BTX	<0.300	0.300	04/22/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/24/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/20/2017	ND	199	99.3	200	2.60	
DRO >C10-C28	<10.0	10.0	04/20/2017	ND	214	107	200	6.26	

Surrogate: 1-Chlorooctane 87.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.8 % 34.7-157

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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:	04/17/2017	Sampling Date:	04/14/2017
Reported:	04/24/2017	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 4 @ 7' (H701012-16)

BTX 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	04/22/2017	ND	1.93	96.7	2.00	0.252	
Toluene*	<0.050	0.050	04/22/2017	ND	1.83	91.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	04/22/2017	ND	1.86	92.9	2.00	0.815	
Total Xylenes*	<0.150	0.150	04/22/2017	ND	5.30	88.4	6.00	0.682	
Total BTX	<0.300	0.300	04/22/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/24/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/20/2017	ND	199	99.3	200	2.60	
DRO >C10-C28	<10.0	10.0	04/20/2017	ND	214	107	200	6.26	

Surrogate: 1-Chlorooctane 88.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 90.7 % 34.7-157

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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:	04/17/2017	Sampling Date:	04/14/2017
Reported:	04/24/2017	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 5 @ 1' (H701012-17)

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	04/22/2017	ND	1.93	96.7	2.00	0.252		
Toluene*	<0.050	0.050	04/22/2017	ND	1.83	91.3	2.00	1.51		
Ethylbenzene*	<0.050	0.050	04/22/2017	ND	1.86	92.9	2.00	0.815		
Total Xylenes*	<0.150	0.150	04/22/2017	ND	5.30	88.4	6.00	0.682		
Total BTEx	<0.300	0.300	04/22/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/24/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/20/2017	ND	199	99.3	200	2.60	
DRO >C10-C28	<10.0	10.0	04/20/2017	ND	214	107	200	6.26	

Surrogate: 1-Chlorooctane 127 % 28.3-164

Surrogate: 1-Chlorooctadecane 132 % 34.7-157

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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:	04/17/2017	Sampling Date:	04/14/2017
Reported:	04/24/2017	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 5 @ 2' (H701012-18)

BTX 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	04/22/2017	ND	1.93	96.7	2.00	0.252	
Toluene*	<0.050	0.050	04/22/2017	ND	1.83	91.3	2.00	1.51	
Ethylbenzene*	<0.050	0.050	04/22/2017	ND	1.86	92.9	2.00	0.815	
Total Xylenes*	<0.150	0.150	04/22/2017	ND	5.30	88.4	6.00	0.682	
Total BTX	<0.300	0.300	04/22/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/24/2017	ND	448	112	400	3.51	

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	04/20/2017	ND	199	99.3	200	2.60	
DRO >C10-C28	<10.0	10.0	04/20/2017	ND	214	107	200	6.26	

Surrogate: 1-Chlorooctane 133 % 28.3-164

Surrogate: 1-Chlorooctadecane 145 % 34.7-157

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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:	04/17/2017	Sampling Date:	04/14/2017
Reported:	04/24/2017	Sampling Type:	Soil
Project Name:	RED TANK 28 FEDERAL #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 5 @ 7' (H701012-19)

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	04/22/2017	ND	1.86	93.0	2.00	2.84		
Toluene*	<0.050	0.050	04/22/2017	ND	1.77	88.6	2.00	2.67		
Ethylbenzene*	<0.050	0.050	04/22/2017	ND	1.78	88.9	2.00	3.46		
Total Xylenes*	<0.150	0.150	04/22/2017	ND	5.09	84.8	6.00	3.52		
Total BTEX	<0.300	0.300	04/22/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/24/2017	ND	448	112	400	3.51	QR-03	

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	04/20/2017	ND	199	99.3	200	2.60	
DRO >C10-C28	<10.0	10.0	04/20/2017	ND	214	107	200	6.26	

Surrogate: 1-Chlorooctane 120 % 28.3-164

Surrogate: 1-Chlorooctadecane 138 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1042

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: Red Tank 28 Federal #4

Project Location: Lea County, NM

Sampler Name: Roger Hernandez

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H701012

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	DATE	TIME	ANALYSIS REQUEST									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :													
1	SP1 @ 1'	✓	1	✓		✓				✓	4/13/17	11:50 AM	BTEX	✓								
2	SP1 @ 2'	✓	1	✓		✓				✓	4/13/17	12:30 PM	CI	✓								
3	SP1 @ 7'	✓	1	✓		✓				✓	4/13/17	1:00 PM	TPH	✓								
4	SP2 @ 1'	✓	1	✓		✓				✓	4/13/17	1:40 PM		✓								
5	SP2 @ 2'	✓	1	✓		✓				✓	4/13/17	1:55 PM		✓								
6	SP2 @ 7'	✓	1	✓		✓				✓	4/13/17	2:09 PM		✓								
7	SP3 @ 1'	✓	1	✓		✓				✓	4/13/17	2:38 PM		✓								
8	SP3 @ 2'	✓	1	✓		✓				✓	4/13/17	2:47 PM		✓								
9	SP3 @ 7'	✓	1	✓		✓				✓	4/13/17	2:59 PM		✓								
10	NORTH @ 1'	✓	1	✓		✓				✓	4/13/17	3:10 PM		✓								

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Relinquished By:

Received By:

Date: 4/13/17
Time: 3:30pm

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

#75 4.90

Sample Condition
Cool Intact
☒ Yes ☐ No

CHECKED BY:
(Initials)

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

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

REMARKS:



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2082

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: Red Tank 28 Federal #4

Project Location: Lea County, NM

Sample Name: Roger Hernandez

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

P.O. #:

Company:

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

Lab I.D.

Sample I.D.

HTD1012

11 SOUTH @ 1'

12 EAST @ 1'

13 WEST @ 1'

14 SP4 @ 1'

15 SP4 @ 2'

16 SP4 @ 7'

17 SP5 @ 1'

18 SP5 @ 2'

19 SP5 @ 7'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

BTEX

CI

TPH

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

BTEX

CI

TPH

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Relinquished By:

Received By:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Sample Condition

Cool

Intact

Yes

No

Checked By:

(Initials)

Yes

No

Checked By:

(Initials)

Yes

No

Checked By:

(Initials)

Yes

No

Checked By:

(Initials)

Yes

No

Delivered By: (Circle One)

UPS

Bus

Other

#75

4.80

Yes

No

Checked By:

(Initials)

Yes

No

Checked By:

(Initials)

Yes

No

Checked By:

(Initials)

Yes

No

Checked By:

(Initials)

Yes

No

Checked By:

(Initials)

Yes

No

† 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

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	Casey Summers
Address	PO Box 4294; Houston, TX 77210	Telephone No.	(575) 513-8289
Facility Name	Red Tank 28 Federal #004	Facility Type	Well
Surface Owner	BLM	Mineral Owner	
		API No.	30-025-36009

LOCATION OF RELEASE

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

Latitude N 32.35651° Longitude W 103.67895°

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	1 bbl oil, 4 bbls produced water	Volume Recovered	0 bbls
Source of Release	Faulty surface casing valve	Date and Hour of Occurrence	03/15/2017	Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	n/a		
By Whom?	n/a	Date and Hour	n/a		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

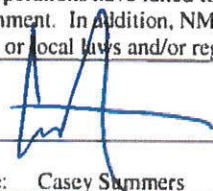
A faulty surface casing valve caused a leak of 1 bbl oil and 4 bbls of produced water. No fluids were recoverable and the valve was replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 50' x 125' around the well head on location. Remediation will be completed in accordance with a remediation 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.

OIL CONSERVATION DIVISION

Signature:			
Printed Name:	Casey Summers	Approved by Environmental Specialist:	
Title:	NM Environmental Advisor	Approval Date:	Expiration Date:
E-mail Address:	Casey_Summers@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date:	3-27-17	Phone:	(575) 513-8289

* Attach Additional Sheets If Necessary