

## Closure Report

### Site Description

Site Name:	Red Tank 35 3 SWD Facility
Company:	Oxy USA Inc.
Legal Description:	U/L L, Section 35, T22S, R32E
County:	Lea County, NM
GPS Coordinates:	N 32.34814 W -103.65142

### Release Data

Date of Release:	10/28/2018
Type of Release:	Produced Water
Source of Release:	Compromised Rubber Vibration Hose
Volume of Release:	150 bbls
Volume Recovered:	125 bbls

### Remediation Specifications

Remediation Parameters:	Excavated the spill areas SP1-SP3, SP5-SP8, SP10, SP12, SP18, & SP22-SP26 to a depth of 1 foot. Excavated SP17 & SP29 to a depth of 3 feet. Excavated SP20 to a depth of 4 feet. Excavated SP21 to a depth of 2 feet. Bottom confirmation samples collected at 75 foot intervals. The site will be re-seeded according to BLM requirements.
Remediation Activities:	12/30/19 to 01/21/2020

Plan Sent to OCD:	6/28/2019	E-mail from Cliff Brunson to NMOCD
OCD Approval of Plan:	7/10/2019	E-mail from Dylan Rose-Coss to Cliff Brunson
Plan Sent to BLM:	6/28/2019	E-mail from Cliff Brunson to NMOCD
BLM Approval of Plan:	12/12/2019	E-mail from Jim Amos to Cliff Brunson

### Supporting Documentation

C-141 Initial	signed and included
C-141, page 6	signed and included
Site Diagram	June, 2019
Lab Summary	Confirmation Lab 1/13/20
Depth to Groundwater	USGS search results, Groundwater trend map
Pictures	Remediation Photos

### Request for Closure

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

Cliff Brunson, President of BBC International Inc.

2/4/2020

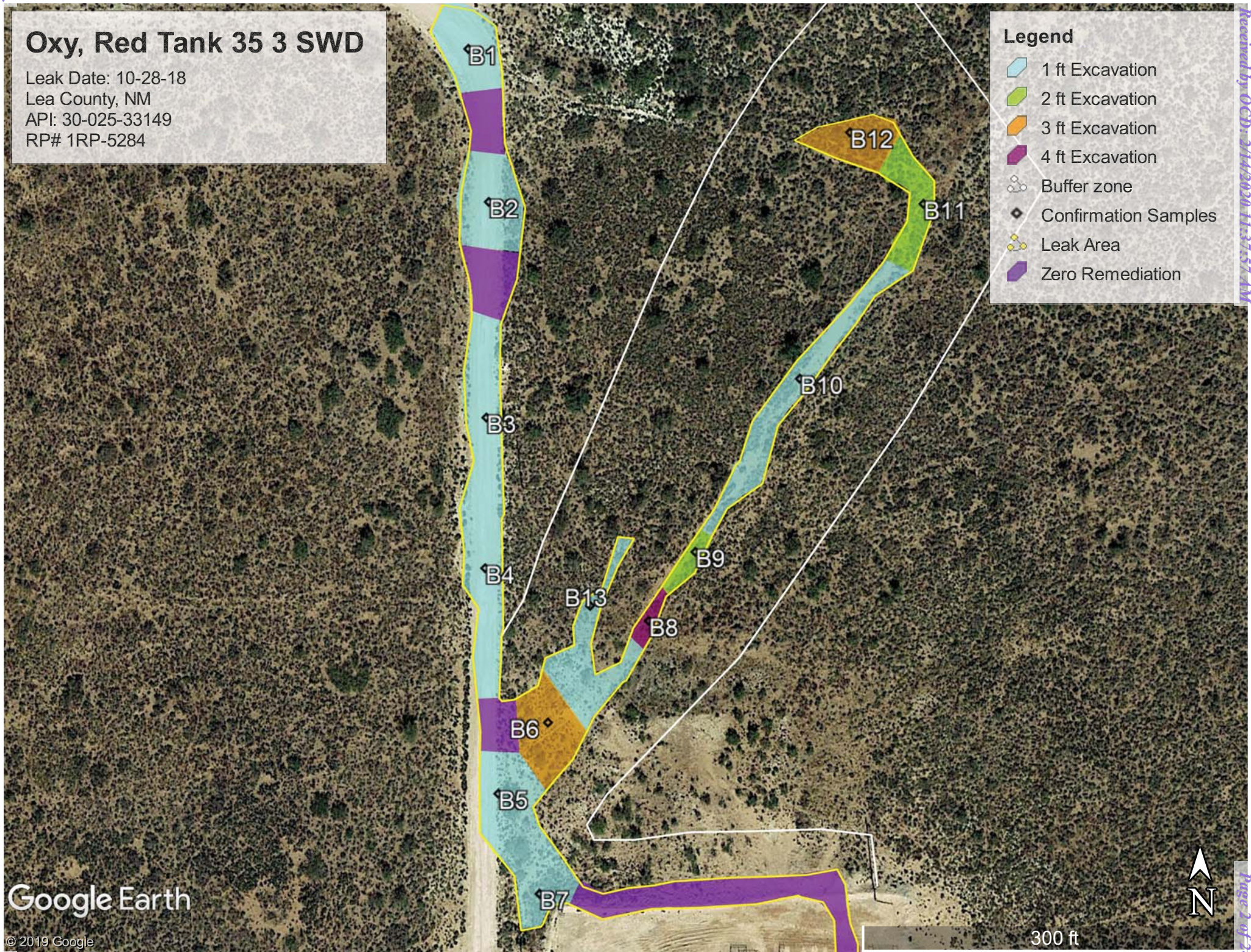


# Oxy, Red Tank 35 3 SWD

Leak Date: 10-28-18  
Lea County, NM  
API: 30-025-33149  
RP# 1RP-5284

## Legend

- 1 ft Excavation
- 2 ft Excavation
- 3 ft Excavation
- 4 ft Excavation
- Buffer zone
- Confirmation Samples
- Leak Area
- Zero Remediation



Google Earth

© 2019 Google

300 ft





Oxy, Red Tank 35 3 SWD Facility

Confirmation Sample Points

B1, N 32.34923 W-103.65147

B2, N 32.34890 W-103.65143

B3, N 32.34844 W-103.65144

B4, N 32.34808 W-103.65143

B5, N 32.34764 W-103.65138

B6, N 32.34778 W-103.65128

B7, N 32.34745 W-103.65127

B8, N 32.34801 W-103.65102

B9, N 32.34813 W-103.65092

B10, N 32.34852 W-103.65065

B11, N 32.34891 W-103.65033

B12, N 32.34904 W-103.65050

B13, N 32.34801 W-103.65118

NORTH, N 32.34933 W-103.65154

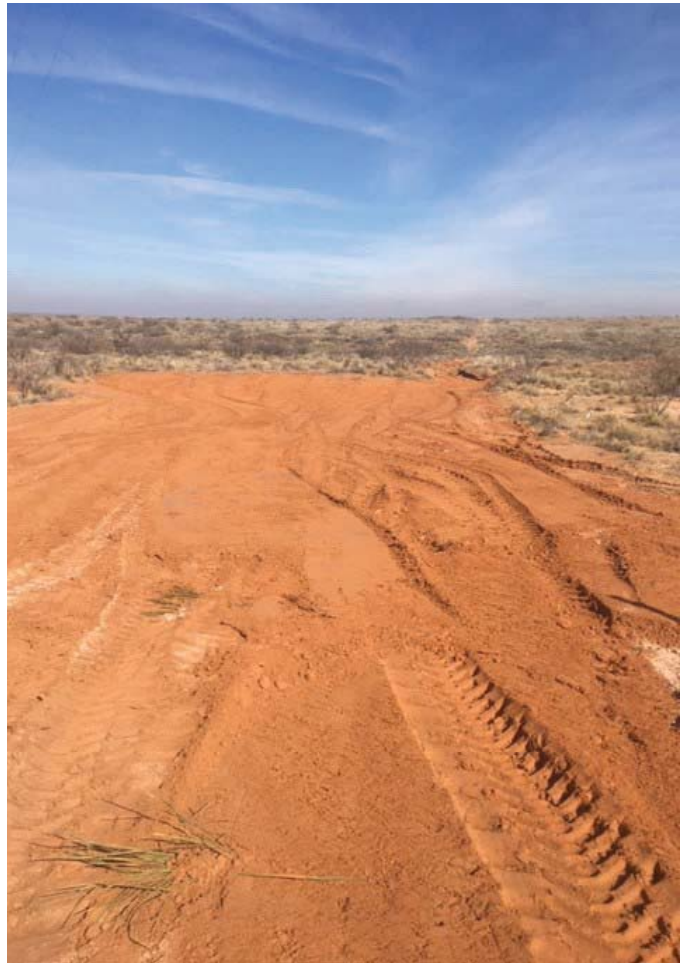
SOUTH, N 32.34729 W-103.65134

EAST, N 32.34825 W-103.65134

WEST, N 32.34806 W-103.65152







Confirmation Lab Summary  
Oxy, Red Tank 35 3 SWD Facility (10-28-18)

		Sample ID	SP1 @ 1'	SP2 @ 1'	SP3 @ 1'	SP4 @ 1'	SP5 @ 1'	SP6 @ 3'
Analyte	Method	Date	1/13/20	1/13/20	1/13/20	1/13/20	1/13/20	1/13/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		32	<16.0	<16.0	<16.0	16.0	16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

		Sample ID	SP7 @ 1'	SP8 @ 1'	SP9 @ 2'	SP10 @ 1'	SP11 @ 2'	SP12 @ 3'	SP13 @ 1'
Analyte	Method	Date	1/13/20	1/13/20	1/13/20	1/13/20	1/13/20	1/13/20	1/13/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		16.0	<16.0	16.0	<16.0	<16.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0



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

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January 14, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RED TANK 35 3 SWD FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 01/13/20 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	01/13/2020	Sampling Date:	01/13/2020
Reported:	01/14/2020	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 1 @ 1' (H000110-01)**

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	01/13/2020	ND	2.01	100	2.00	0.633	
Toluene*	<0.050	0.050	01/13/2020	ND	1.99	99.6	2.00	0.636	
Ethylbenzene*	<0.050	0.050	01/13/2020	ND	2.01	101	2.00	0.866	
Total Xylenes*	<0.150	0.150	01/13/2020	ND	5.85	97.6	6.00	0.898	
Total BTX	<0.300	0.300	01/13/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 73.3-129

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	01/14/2020	ND	432	108	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	01/14/2020	ND	176	88.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	01/14/2020	ND	161	80.3	200	25.1	
EXT DRO >C28-C36	<10.0	10.0	01/14/2020	ND					

Surrogate: 1-Chlorooctane 89.9 % 41-142

Surrogate: 1-Chlorooctadecane 96.1 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	01/13/2020	Sampling Date:	01/13/2020
Reported:	01/14/2020	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 2 @ 1' (H000110-02)**

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	01/13/2020	ND	2.01	100	2.00	0.633		
Toluene*	<0.050	0.050	01/13/2020	ND	1.99	99.6	2.00	0.636		
Ethylbenzene*	<0.050	0.050	01/13/2020	ND	2.01	101	2.00	0.866		
Total Xylenes*	<0.150	0.150	01/13/2020	ND	5.85	97.6	6.00	0.898		
Total BTEX	<0.300	0.300	01/13/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 73.3-129

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	01/14/2020	ND	432	108	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	01/14/2020	ND	176	88.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	01/14/2020	ND	161	80.3	200	25.1	
EXT DRO >C28-C36	<10.0	10.0	01/14/2020	ND					

Surrogate: 1-Chlorooctane 94.1 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/13/2020	Sampling Date:	01/13/2020
Reported:	01/14/2020	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 3 @ 1' (H000110-03)**

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	01/13/2020	ND	2.01	100	2.00	0.633		
Toluene*	<0.050	0.050	01/13/2020	ND	1.99	99.6	2.00	0.636		
Ethylbenzene*	<0.050	0.050	01/13/2020	ND	2.01	101	2.00	0.866		
Total Xylenes*	<0.150	0.150	01/13/2020	ND	5.85	97.6	6.00	0.898		
Total BTEX	<0.300	0.300	01/13/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129

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	01/14/2020	ND	432	108	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	01/14/2020	ND	176	88.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	01/14/2020	ND	161	80.3	200	25.1	
EXT DRO >C28-C36	<10.0	10.0	01/14/2020	ND					

Surrogate: 1-Chlorooctane 92.0 % 41-142

Surrogate: 1-Chlorooctadecane 97.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	01/13/2020	Sampling Date:	01/13/2020
Reported:	01/14/2020	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 4 @ 1' (H000110-04)**

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	01/13/2020	ND	2.01	100	2.00	0.633	QR-03
Toluene*	<0.050	0.050	01/13/2020	ND	1.99	99.6	2.00	0.636	QR-03
Ethylbenzene*	<0.050	0.050	01/13/2020	ND	2.01	101	2.00	0.866	QR-03
Total Xylenes*	<0.150	0.150	01/13/2020	ND	5.85	97.6	6.00	0.898	QR-03
Total BTX	<0.300	0.300	01/13/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 73.3-129

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	01/14/2020	ND	432	108	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	01/14/2020	ND	176	88.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	01/14/2020	ND	161	80.3	200	25.1	
EXT DRO >C28-C36	<10.0	10.0	01/14/2020	ND					

Surrogate: 1-Chlorooctane 94.7 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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 Fax To: (575) 397-0397

Received:	01/13/2020	Sampling Date:	01/13/2020
Reported:	01/14/2020	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 5 @ 1' (H000110-05)**

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	01/13/2020	ND	2.01	100	2.00	0.633		
Toluene*	<0.050	0.050	01/13/2020	ND	1.99	99.6	2.00	0.636		
Ethylbenzene*	<0.050	0.050	01/13/2020	ND	2.01	101	2.00	0.866		
Total Xylenes*	<0.150	0.150	01/13/2020	ND	5.85	97.6	6.00	0.898		
Total BTEX	<0.300	0.300	01/13/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.3-129

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	01/14/2020	ND	432	108	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	01/14/2020	ND	176	88.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	01/14/2020	ND	161	80.3	200	25.1	
EXT DRO >C28-C36	<10.0	10.0	01/14/2020	ND					

Surrogate: 1-Chlorooctane 99.1 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	01/13/2020	Sampling Date:	01/13/2020
Reported:	01/14/2020	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 6 @ 3' (H000110-06)**

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	01/13/2020	ND	2.01	100	2.00	0.633		
Toluene*	<0.050	0.050	01/13/2020	ND	1.99	99.6	2.00	0.636		
Ethylbenzene*	<0.050	0.050	01/13/2020	ND	2.01	101	2.00	0.866		
Total Xylenes*	<0.150	0.150	01/13/2020	ND	5.85	97.6	6.00	0.898		
Total BTEx	<0.300	0.300	01/13/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 73.3-129

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	01/14/2020	ND	432	108	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	01/14/2020	ND	176	88.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	01/14/2020	ND	161	80.3	200	25.1	
EXT DRO >C28-C36	<10.0	10.0	01/14/2020	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	01/13/2020	Sampling Date:	01/13/2020
Reported:	01/14/2020	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 7 @ 1' (H000110-07)**

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	01/13/2020	ND	2.01	100	2.00	0.633		
Toluene*	<0.050	0.050	01/13/2020	ND	1.99	99.6	2.00	0.636		
Ethylbenzene*	<0.050	0.050	01/13/2020	ND	2.01	101	2.00	0.866		
Total Xylenes*	<0.150	0.150	01/13/2020	ND	5.85	97.6	6.00	0.898		
Total BTEx	<0.300	0.300	01/13/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 73.3-129

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	01/14/2020	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	01/14/2020	ND	176	88.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	01/14/2020	ND	161	80.3	200	25.1	
EXT DRO >C28-C36	<10.0	10.0	01/14/2020	ND					

Surrogate: 1-Chlorooctane 90.8 % 41-142

Surrogate: 1-Chlorooctadecane 95.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	01/13/2020	Sampling Date:	01/13/2020
Reported:	01/14/2020	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 8 @ 1' (H000110-08)**

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	01/13/2020	ND	2.01	100	2.00	0.633		
Toluene*	<0.050	0.050	01/13/2020	ND	1.99	99.6	2.00	0.636		
Ethylbenzene*	<0.050	0.050	01/13/2020	ND	2.01	101	2.00	0.866		
Total Xylenes*	<0.150	0.150	01/13/2020	ND	5.85	97.6	6.00	0.898		
Total BTEx	<0.300	0.300	01/13/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

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	01/14/2020	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	01/14/2020	ND	176	88.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	01/14/2020	ND	161	80.3	200	25.1	
EXT DRO >C28-C36	<10.0	10.0	01/14/2020	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/13/2020	Sampling Date:	01/13/2020
Reported:	01/14/2020	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 9 @ 2' (H000110-09)**

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	01/13/2020	ND	2.01	100	2.00	0.633		
Toluene*	<0.050	0.050	01/13/2020	ND	1.99	99.6	2.00	0.636		
Ethylbenzene*	<0.050	0.050	01/13/2020	ND	2.01	101	2.00	0.866		
Total Xylenes*	<0.150	0.150	01/13/2020	ND	5.85	97.6	6.00	0.898		
Total BTX	<0.300	0.300	01/13/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.3-129

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	01/14/2020	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	01/14/2020	ND	176	88.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	01/14/2020	ND	161	80.3	200	25.1	
EXT DRO >C28-C36	<10.0	10.0	01/14/2020	ND					

Surrogate: 1-Chlorooctane 97.0 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/13/2020	Sampling Date:	01/13/2020
Reported:	01/14/2020	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 10 @ 1' (H000110-10)**

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	01/14/2020	ND	2.01	100	2.00	0.633	
Toluene*	<0.050	0.050	01/14/2020	ND	1.99	99.6	2.00	0.636	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.01	101	2.00	0.866	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	5.85	97.6	6.00	0.898	
Total BTX	<0.300	0.300	01/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.3-129

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	01/14/2020	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	01/14/2020	ND	176	88.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	01/14/2020	ND	161	80.3	200	25.1	
EXT DRO >C28-C36	<10.0	10.0	01/14/2020	ND					

Surrogate: 1-Chlorooctane 99.6 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	01/13/2020	Sampling Date:	01/13/2020
Reported:	01/14/2020	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 11 @ 2' (H000110-11)**

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	01/14/2020	ND	2.01	100	2.00	0.633	
Toluene*	<0.050	0.050	01/14/2020	ND	1.99	99.6	2.00	0.636	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.01	101	2.00	0.866	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	5.85	97.6	6.00	0.898	
Total BTX	<0.300	0.300	01/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 73.3-129

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	01/14/2020	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	01/14/2020	ND	176	88.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	01/14/2020	ND	161	80.3	200	25.1	
EXT DRO >C28-C36	<10.0	10.0	01/14/2020	ND					

Surrogate: 1-Chlorooctane 99.6 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/13/2020	Sampling Date:	01/13/2020
Reported:	01/14/2020	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 12 @ 3' (H000110-12)**

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	01/14/2020	ND	2.01	100	2.00	0.633	
Toluene*	<0.050	0.050	01/14/2020	ND	1.99	99.6	2.00	0.636	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.01	101	2.00	0.866	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	5.85	97.6	6.00	0.898	
Total BTEx	<0.300	0.300	01/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.3-129

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	01/14/2020	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	01/14/2020	ND	176	88.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	01/14/2020	ND	161	80.3	200	25.1	
EXT DRO >C28-C36	<10.0	10.0	01/14/2020	ND					

Surrogate: 1-Chlorooctane 95.4 % 41-142

Surrogate: 1-Chlorooctadecane 97.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	01/13/2020	Sampling Date:	01/13/2020
Reported:	01/14/2020	Sampling Type:	Soil
Project Name:	RED TANK 35 3 SWD FACILITY	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

**Sample ID: SP 13 @ 1' (H000110-13)**

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	01/14/2020	ND	2.01	100	2.00	0.633	
Toluene*	<0.050	0.050	01/14/2020	ND	1.99	99.6	2.00	0.636	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.01	101	2.00	0.866	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	5.85	97.6	6.00	0.898	
Total BTEX	<0.300	0.300	01/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.3-129

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	01/14/2020	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	01/14/2020	ND	176	88.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	01/14/2020	ND	161	80.3	200	25.1	
EXT DRO >C28-C36	<10.0	10.0	01/14/2020	ND					

Surrogate: 1-Chlorooctane 95.3 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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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A handwritten signature in cursive script, appearing to read "Celey D. Keene", written in black ink.

---

Celey D. Keene, Lab Director/Quality Manager



(505) 393-2326 FAX (505) 393-2476

122

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



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

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

2 of 2

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CL-</div> </div>											
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: OKY				City:															
Project Name: Red Tank 35 SWD				State: Zip:															
Project Location:				Phone #:															
Sampler Name: Roger Hernandez				Fax #:															
FOR LAB USE ONLY				MATRIX				PRESERV.				SAMPLING							
Lab I.D.	Sample I.D.	GIRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME					
H000110																			
11	SP 11 @ 2'	1	1			✓				✓			1-13-20						
12	SP 12 @ 3'	1	1			✓				✓			1-13-20						
13	SP 13 @ 1'	1	1			✓				✓			1-13-20						

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: 1-13-20 Time: 15:35	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date: 1-13-20 Time: 15:35	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: #113 -0.5°	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) T.O.	REMARKS: 

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



Form C-141

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State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	1RP-5284
Facility ID	
Application ID	


## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** Each of the following items must be included in the closure report.

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Title: Environmental Coordinator  
 Signature:  Date: 2-3-2020  
 email: wade\_dittrich@oxy.com Telephone: (575) 390-2828

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_