



Oxy

Lost Tank 3 Federal #15

Overspray
45' x 10'

Location Pad

1' x 5'

10' x 1'

1' x 12'

60' x 4'

12' x 10'

75' x 40'

4'

67' x 46'

65' x 50'

95' x 67'

43' x 6'

30' x 14'

12'

20' x 15'

Pasture

150'

Surface Scrape (6") the
entire spill area

Pumpjacks



SP5

SP4

SP1

XSP2

SP3

U/L E, Section 3, T22S, R31E
Eddy County, NM
N 32.42071° W 103.77367°
API# 30-015-37951

Road

BBC International, Inc.	
Oxy	
Lost Tank 3 Federal #15	
Date: 09/30/2014	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2014

Groundwater Plot

Oxy Lost Tank 3 Federal #15

County
Eddy

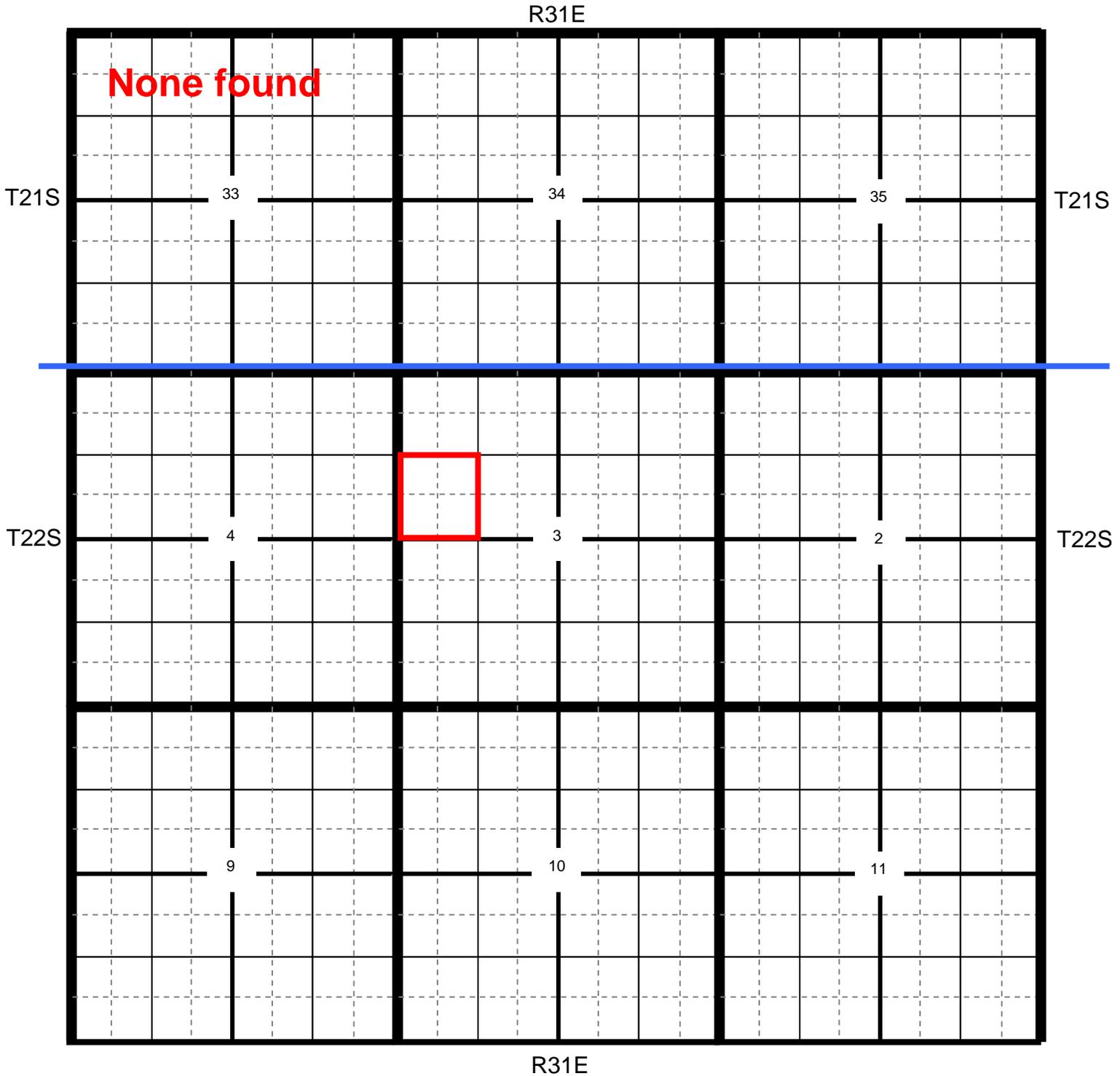
Unit Letter
E

Section
3

Township
22S

Range
31E

Trend Map 150'



📍 Location

● OCD

● USGS

● SEO

● All Databases

Oxy Lost Tank 3 Federal #15

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

Trend Map 150'

1

2

NW/NW None found	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

**Laboratory Analytical Results Summary
Lost Tank 3 Federal #15**

		Sample	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	9/30/14	9/30/14
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500CI-B		<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0

		Sample	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	9/30/14	9/30/14
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500CI-B		<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	9/30/14	9/30/14	9/30/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500CI-B		560	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	9/30/14	9/30/14	9/30/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500CI-B		464	448	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 5'
Analyte	Method	Date	9/30/14	9/30/14	9/30/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500CI-B		192	544	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0



October 06, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LOST TANK 3 FEDERAL #15

Enclosed are the results of analyses for samples received by the laboratory on 10/01/14 10:00.

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.

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.

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:	10/01/2014	Sampling Date:	09/30/2014
Reported:	10/06/2014	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #15	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 1 @ 1' (H402989-01)

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	10/02/2014	ND	1.66	82.9	2.00	10.3	
Toluene*	<0.050	0.050	10/02/2014	ND	1.56	77.8	2.00	10.6	
Ethylbenzene*	<0.050	0.050	10/02/2014	ND	1.47	73.6	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/02/2014	ND	4.33	72.1	6.00	12.0	
Total BTEX	<0.300	0.300	10/02/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 61-154

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	10/02/2014	ND	400	100	400	7.69	

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	10/03/2014	ND	179	89.3	200	1.02	
DRO >C10-C28	<10.0	10.0	10/03/2014	ND	183	91.3	200	0.265	

Surrogate: 1-Chlorooctane 91.6 % 47.2-157
Surrogate: 1-Chlorooctadecane 94.0 % 52.1-176

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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:	10/01/2014	Sampling Date:	09/30/2014
Reported:	10/06/2014	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #15	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 1 @ 2' (H402989-02)

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	10/02/2014	ND	1.66	82.9	2.00	10.3	
Toluene*	<0.050	0.050	10/02/2014	ND	1.56	77.8	2.00	10.6	
Ethylbenzene*	<0.050	0.050	10/02/2014	ND	1.47	73.6	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/02/2014	ND	4.33	72.1	6.00	12.0	
Total BTEX	<0.300	0.300	10/02/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 61-154

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	10/02/2014	ND	400	100	400	7.69	

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	10/03/2014	ND	179	89.3	200	1.02	
DRO >C10-C28	<10.0	10.0	10/03/2014	ND	183	91.3	200	0.265	

Surrogate: 1-Chlorooctane 96.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 93.9 % 52.1-176

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 Cliff Brunson
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 Fax To: (575) 397-0397

Received:	10/01/2014	Sampling Date:	09/30/2014
Reported:	10/06/2014	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #15	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 2 @ 1' (H402989-03)

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	10/02/2014	ND	1.66	82.9	2.00	10.3	
Toluene*	<0.050	0.050	10/02/2014	ND	1.56	77.8	2.00	10.6	
Ethylbenzene*	<0.050	0.050	10/02/2014	ND	1.47	73.6	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/02/2014	ND	4.33	72.1	6.00	12.0	
Total BTEX	<0.300	0.300	10/02/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	10/02/2014	ND	400	100	400	7.69	

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	10/03/2014	ND	179	89.3	200	1.02	
DRO >C10-C28	<10.0	10.0	10/03/2014	ND	183	91.3	200	0.265	

Surrogate: 1-Chlorooctane 93.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.5 % 52.1-176

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

Received:	10/01/2014	Sampling Date:	09/30/2014
Reported:	10/06/2014	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #15	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 2 @ 2' (H402989-04)

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	10/02/2014	ND	1.66	82.9	2.00	10.3	
Toluene*	<0.050	0.050	10/02/2014	ND	1.56	77.8	2.00	10.6	
Ethylbenzene*	<0.050	0.050	10/02/2014	ND	1.47	73.6	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/02/2014	ND	4.33	72.1	6.00	12.0	
Total BTEX	<0.300	0.300	10/02/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 61-154

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	10/02/2014	ND	400	100	400	7.69	

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	10/03/2014	ND	179	89.3	200	1.02	
DRO >C10-C28	<10.0	10.0	10/03/2014	ND	183	91.3	200	0.265	

Surrogate: 1-Chlorooctane 96.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 96.4 % 52.1-176

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Received:	10/01/2014	Sampling Date:	09/30/2014
Reported:	10/06/2014	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #15	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 2 @ 3' (H402989-05)

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	10/02/2014	ND	1.66	82.9	2.00	10.3		
Toluene*	<0.050	0.050	10/02/2014	ND	1.56	77.8	2.00	10.6		
Ethylbenzene*	<0.050	0.050	10/02/2014	ND	1.47	73.6	2.00	11.1		
Total Xylenes*	<0.150	0.150	10/02/2014	ND	4.33	72.1	6.00	12.0		
Total BTEX	<0.300	0.300	10/02/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 61-154

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	10/02/2014	ND	400	100	400	7.69		

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	10/03/2014	ND	179	89.3	200	1.02		
DRO >C10-C28	<10.0	10.0	10/03/2014	ND	183	91.3	200	0.265		

Surrogate: 1-Chlorooctane 101 % 47.2-157

Surrogate: 1-Chlorooctadecane 96.3 % 52.1-176

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* = Accredited Analyte

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Received:	10/01/2014	Sampling Date:	09/30/2014
Reported:	10/06/2014	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #15	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 3 @ 1' (H402989-06)

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	10/02/2014	ND	1.66	82.9	2.00	10.3	
Toluene*	<0.050	0.050	10/02/2014	ND	1.56	77.8	2.00	10.6	
Ethylbenzene*	<0.050	0.050	10/02/2014	ND	1.47	73.6	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/02/2014	ND	4.33	72.1	6.00	12.0	
Total BTEX	<0.300	0.300	10/02/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	10/02/2014	ND	400	100	400	7.69	

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	10/03/2014	ND	179	89.3	200	1.02	
DRO >C10-C28	<10.0	10.0	10/03/2014	ND	183	91.3	200	0.265	

Surrogate: 1-Chlorooctane 97.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 96.1 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/01/2014	Sampling Date:	09/30/2014
Reported:	10/06/2014	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #15	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 3 @ 2' (H402989-07)

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	10/02/2014	ND	1.66	82.9	2.00	10.3	
Toluene*	<0.050	0.050	10/02/2014	ND	1.56	77.8	2.00	10.6	
Ethylbenzene*	<0.050	0.050	10/02/2014	ND	1.47	73.6	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/02/2014	ND	4.33	72.1	6.00	12.0	
Total BTEX	<0.300	0.300	10/02/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	10/02/2014	ND	400	100	400	7.69	

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	10/03/2014	ND	179	89.3	200	1.02	
DRO >C10-C28	<10.0	10.0	10/03/2014	ND	183	91.3	200	0.265	

Surrogate: 1-Chlorooctane 101 % 47.2-157

Surrogate: 1-Chlorooctadecane 96.1 % 52.1-176

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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:	10/01/2014	Sampling Date:	09/30/2014
Reported:	10/06/2014	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #15	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 3 @ 3' (H402989-08)

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	10/02/2014	ND	1.66	82.9	2.00	10.3	
Toluene*	<0.050	0.050	10/02/2014	ND	1.56	77.8	2.00	10.6	
Ethylbenzene*	<0.050	0.050	10/02/2014	ND	1.47	73.6	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/02/2014	ND	4.33	72.1	6.00	12.0	
Total BTEX	<0.300	0.300	10/02/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 61-154

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	10/02/2014	ND	400	100	400	7.69	

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	10/03/2014	ND	179	89.3	200	1.02	
DRO >C10-C28	<10.0	10.0	10/03/2014	ND	183	91.3	200	0.265	

Surrogate: 1-Chlorooctane 102 % 47.2-157

Surrogate: 1-Chlorooctadecane 100 % 52.1-176

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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:	10/01/2014	Sampling Date:	09/30/2014
Reported:	10/06/2014	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #15	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 4 @ 1' (H402989-09)

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	10/02/2014	ND	1.66	82.9	2.00	10.3	
Toluene*	<0.050	0.050	10/02/2014	ND	1.56	77.8	2.00	10.6	
Ethylbenzene*	<0.050	0.050	10/02/2014	ND	1.47	73.6	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/02/2014	ND	4.33	72.1	6.00	12.0	
Total BTEX	<0.300	0.300	10/02/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/02/2014	ND	400	100	400	7.69	

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	10/03/2014	ND	179	89.3	200	1.02	
DRO >C10-C28	<10.0	10.0	10/03/2014	ND	183	91.3	200	0.265	

Surrogate: 1-Chlorooctane 100 % 47.2-157

Surrogate: 1-Chlorooctadecane 95.2 % 52.1-176

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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:	10/01/2014	Sampling Date:	09/30/2014
Reported:	10/06/2014	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #15	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 4 @ 3' (H402989-10)

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	10/02/2014	ND	1.66	82.9	2.00	10.3	
Toluene*	<0.050	0.050	10/02/2014	ND	1.56	77.8	2.00	10.6	
Ethylbenzene*	<0.050	0.050	10/02/2014	ND	1.47	73.6	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/02/2014	ND	4.33	72.1	6.00	12.0	
Total BTEX	<0.300	0.300	10/02/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	10/02/2014	ND	400	100	400	7.69	

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	10/03/2014	ND	179	89.3	200	1.02	
DRO >C10-C28	<10.0	10.0	10/03/2014	ND	183	91.3	200	0.265	

Surrogate: 1-Chlorooctane 102 % 47.2-157

Surrogate: 1-Chlorooctadecane 102 % 52.1-176

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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:	10/01/2014	Sampling Date:	09/30/2014
Reported:	10/06/2014	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #15	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 4 @ 5' (H402989-11)

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	10/02/2014	ND	1.66	82.9	2.00	10.3	
Toluene*	<0.050	0.050	10/02/2014	ND	1.56	77.8	2.00	10.6	
Ethylbenzene*	<0.050	0.050	10/02/2014	ND	1.47	73.6	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/02/2014	ND	4.33	72.1	6.00	12.0	
Total BTEX	<0.300	0.300	10/02/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 61-154

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	10/02/2014	ND	400	100	400	7.69	

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	10/03/2014	ND	179	89.3	200	1.02	
DRO >C10-C28	<10.0	10.0	10/03/2014	ND	183	91.3	200	0.265	

Surrogate: 1-Chlorooctane 102 % 47.2-157

Surrogate: 1-Chlorooctadecane 102 % 52.1-176

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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:	10/01/2014	Sampling Date:	09/30/2014
Reported:	10/06/2014	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #15	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 5 @ 1' (H402989-12)

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	10/02/2014	ND	1.66	82.9	2.00	10.3	
Toluene*	<0.050	0.050	10/02/2014	ND	1.56	77.8	2.00	10.6	
Ethylbenzene*	<0.050	0.050	10/02/2014	ND	1.47	73.6	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/02/2014	ND	4.33	72.1	6.00	12.0	
Total BTEX	<0.300	0.300	10/02/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 61-154

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	10/02/2014	ND	400	100	400	7.69	

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	10/06/2014	ND	181	90.5	200	3.56	
DRO >C10-C28	<10.0	10.0	10/06/2014	ND	187	93.4	200	6.02	

Surrogate: 1-Chlorooctane 89.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 98.4 % 52.1-176

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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:	10/01/2014	Sampling Date:	09/30/2014
Reported:	10/06/2014	Sampling Type:	Soil
Project Name:	LOST TANK 3 FEDERAL #15	Sampling Condition:	Cool & Intact
Project Number:	OXY	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 5 @ 2' (H402989-13)

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	10/03/2014	ND	1.90	95.2	2.00	2.17	
Toluene*	<0.050	0.050	10/03/2014	ND	1.83	91.4	2.00	0.748	
Ethylbenzene*	<0.050	0.050	10/03/2014	ND	1.71	85.4	2.00	2.04	
Total Xylenes*	<0.150	0.150	10/03/2014	ND	5.04	84.0	6.00	2.57	
Total BTEX	<0.300	0.300	10/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 61-154

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	10/02/2014	ND	400	100	400	7.69	

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	10/06/2014	ND	181	90.5	200	3.56	
DRO >C10-C28	<10.0	10.0	10/06/2014	ND	187	93.4	200	6.02	

Surrogate: 1-Chlorooctane 91.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 96.6 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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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

182

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc. P.O. #:
 Project Manager: Cliff Brunson Company:
 Address: P.O. Box 805 Attn:
 City: Hobbs State: NM Zip: 88241
 Phone #: 575-397-6388 Fax #: 575-397-0397 Address:
 Project #: Project Owner: Oxy City:
 Project Name: Lost Tank 3 Federal #15 State: Zip:
 Project Location: Eddy County, NM Phone #:
 Sampler Name: Price Brunson Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	SAMPLING	DATE	TIME	BTEX	CI	TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
H402984	SP1 @ 1'	G	1	✓	✓	✓	✓	✓	✓	✓	9/30/14	9:10 AM	✓	✓	✓	
	SP1 @ 2'	G	1	✓	✓	✓	✓	✓	✓	✓	9/30/14	9:30 AM	✓	✓	✓	
	SP2 @ 1'	G	1	✓	✓	✓	✓	✓	✓	✓	9/30/14	10:10 AM	✓	✓	✓	
	SP2 @ 2'	G	1	✓	✓	✓	✓	✓	✓	✓	9/30/14	10:30 AM	✓	✓	✓	
	SP2 @ 3'	G	1	✓	✓	✓	✓	✓	✓	✓	9/30/14	10:50 AM	✓	✓	✓	
	SP3 @ 1'	G	1	✓	✓	✓	✓	✓	✓	✓	9/30/14	11:20 AM	✓	✓	✓	
	SP3 @ 2'	G	1	✓	✓	✓	✓	✓	✓	✓	9/30/14	11:40 AM	✓	✓	✓	
	SP3 @ 3'	G	1	✓	✓	✓	✓	✓	✓	✓	9/30/14	12:00 PM	✓	✓	✓	
	SP4 @ 1'	G	1	✓	✓	✓	✓	✓	✓	✓	9/30/14	1:30 PM	✓	✓	✓	
	SP4 @ 3'	G	1	✓	✓	✓	✓	✓	✓	✓	9/30/14	2:00 PM	✓	✓	✓	

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Retrieved By: *Cliff Brunson* Date: *9/30/14* Time: *9:00 AM*
 Relinquished By: *Cliff Brunson* Date: *9/30/14* Time: *10:00 AM*
 Received By: *Cliff Brunson* Date: *9/30/14* Time: *10:00 AM*
 Delivered By: (Circle One) UPS Bus Other: *-4.62*
 Sampler - UPS - Bus - Other: Cool Intact Yes No No No
 CHECKED BY: *Cliff Brunson*
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 #54



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

208

BILL TO ANALYSIS REQUEST

Company Name: BBC International, Inc. P.O. #: _____
Project Manager: Cliff Brunson Company: _____
Address: P.O. Box 805 State: NM zip: 88241
City: Hobbs Attn: _____
Phone #: 575-397-6388 Fax #: 575-397-0397 Address: _____
Project #: _____ Project Owner: Oxy City: _____
Project Name: Lost Tank 3 Federal #15 State: _____ Zip: _____
Project Location: Eddy County, NM Phone #: _____
Sampler Name: Price Brunson Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX	CI	TPH
H4D2989																	
11	SP4 @ 5'	G	1			✓					✓		9/30/14	2:20 PM	✓	✓	✓
12	SP5 @ 1'	G	1			✓					✓		9/30/14	2:40 PM	✓	✓	✓
13	SP5 @ 2'	G	1			✓					✓		9/30/14	2:50 PM	✓	✓	✓

KEEP
10/11/14

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Relinquished By: _____ Date: 9/30/14 Received By: _____
 Relinquished By: _____ Date: 5:00pm Received By: _____
 Relinquished By: _____ Date: 10:00 Received By: _____

Delivered By: (Circle One) _____
 Sampler - UPS - Bus - Other: -4.60c

Sample Condition: Cool Intact
 Yes No

CHECKED BY: _____ (Initials)

Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____
 REMARKS: _____

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

#54