



Oxy – Anderson 35 #003H (10/27/2016)

REMEDIATION PLAN, RP # 1RP-4509

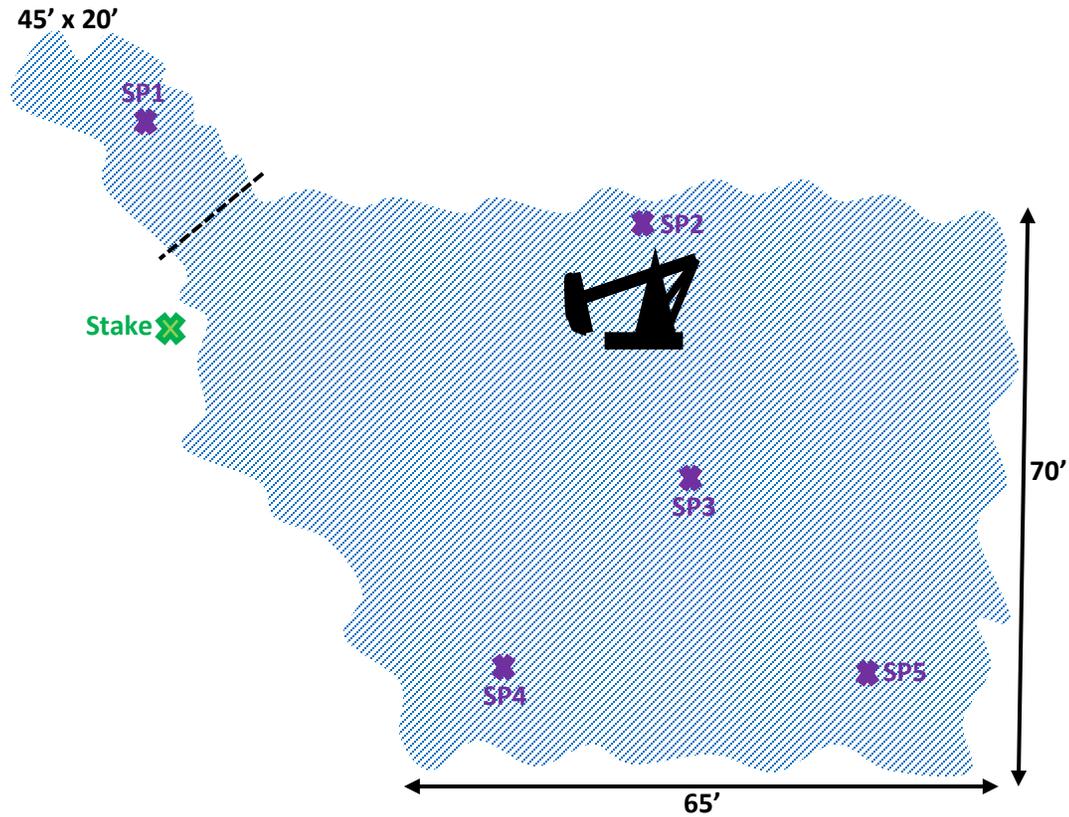
Oxy will excavate the spill area as depicted on the following site diagram. The entire leak area will be excavated to a depth of 6 inches. The entire site will then be backfilled with clean soil.

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

OCD Stipulations:

- 1. Excavate to 2 ft bgs @ SP1 & SP2 and obtain bottom confirmation samples.**
- 2. Obtain bottom confirmation samples after 6" removal of contaminated soil @ SP3 and analyze for BTEX, TPH, and Cl**

Oxy
Anderson 35 #003H (10/27/16)



U/L L, Section 35, T21S, R32E

Lea County, NM

N 32.43260° W 103.65308°

API# 30-025-41780

BBC International, Inc.	
Oxy Anderson 35 #003H	
Date: 11/01/2016	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2016



Groundwater Plot

Oxy Anderson 35 #003H

County
Lea

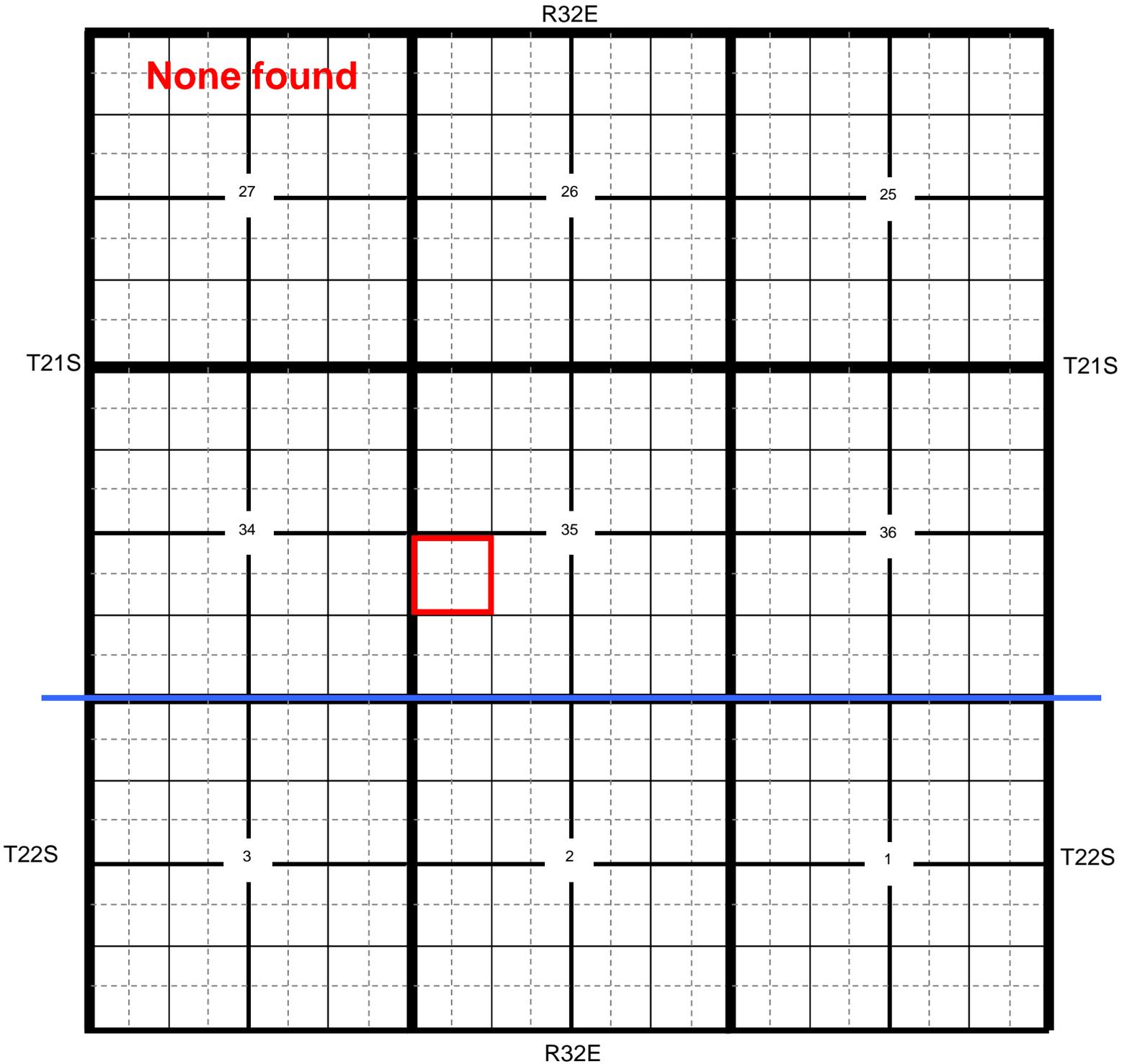
Unit Letter
L

Section
35

Township
21S

Range
32E

Trend Map 225'-250'



📍 Location

● OCD

● USGS

● SEO

● All Databases

Oxy Anderson 35 #003H

County: Lea Unit Letter: L Section: 35 Township: 21S Range: 32E

Trend Map 225'-250'

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
Anderson 35 #003H**

Analyte	Method	Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'
		Date	11/3/16	11/3/16	11/3/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		336	256	544
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a

Analyte	Method	Sample	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'
		Date	11/3/16	11/3/16	11/3/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500Cl-B		80	128	64
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		369	n/a	n/a

Analyte	Method	Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'
		Date	11/3/16	11/3/16	11/3/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500Cl-B		304	224	560
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		11.7	n/a	n/a

Analyte	Method	Sample	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'
		Date	11/3/16	11/3/16	11/3/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		96	128	64
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		355	<10.0	n/a

Analyte	Method	Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'
		Date	11/3/16	11/3/16	11/3/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.722	<0.050	n/a
Toluene	BTEX 8021B		14.4	0.068	n/a
Ethylbenzene	BTEX 8021B		2.11	<0.050	n/a
Total Xylenes	BTEX 8021B		7.11	<0.150	n/a
Total BTEX	BTEX 8021B		24.3	<0.300	n/a
Chloride	SM4500Cl-B		8260	128	128
GRO	TPH 8015M		178	<10.0	n/a
DRO	TPH 8015M		11100	<10.0	n/a



November 10, 2016

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

RE: ANDERSON 35 #3H

Enclosed are the results of analyses for samples received by the laboratory on 11/04/16 11:30.

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 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:	11/04/2016	Sampling Date:	11/03/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	ANDERSON 35 #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 1 @ SURFACE (H602494-01)

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	11/10/2016	ND	2.14	107	2.00	0.796	
Toluene*	<0.050	0.050	11/10/2016	ND	2.19	110	2.00	1.56	
Ethylbenzene*	<0.050	0.050	11/10/2016	ND	2.12	106	2.00	2.04	
Total Xylenes*	<0.150	0.150	11/10/2016	ND	6.45	108	6.00	1.98	
Total BTEX	<0.300	0.300	11/10/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	11/07/2016	ND	400	100	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	11/08/2016	ND	178	89.2	200	0.976	
DRO >C10-C28	<10.0	10.0	11/08/2016	ND	177	88.6	200	4.03	

Surrogate: 1-Chlorooctane 72.1 % 35-147
Surrogate: 1-Chlorooctadecane 77.3 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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

Received:	11/04/2016	Sampling Date:	11/03/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	ANDERSON 35 #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 1 @ 1' (H602494-02)

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	11/10/2016	ND	2.14	107	2.00	0.796	
Toluene*	<0.050	0.050	11/10/2016	ND	2.19	110	2.00	1.56	
Ethylbenzene*	<0.050	0.050	11/10/2016	ND	2.12	106	2.00	2.04	
Total Xylenes*	<0.150	0.150	11/10/2016	ND	6.45	108	6.00	1.98	
Total BTEX	<0.300	0.300	11/10/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/07/2016	ND	400	100	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	11/08/2016	ND	172	86.2	200	0.228	
DRO >C10-C28	<10.0	10.0	11/08/2016	ND	179	89.4	200	0.918	

Surrogate: 1-Chlorooctane 91.1 % 35-147
Surrogate: 1-Chlorooctadecane 89.8 % 28-171
Sample ID: SP 1 @ 2' (H602494-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	11/07/2016	ND	400	100	400	0.00	

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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:	11/04/2016	Sampling Date:	11/03/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	ANDERSON 35 #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 2 @ SURFACE (H602494-04)

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	11/10/2016	ND	2.14	107	2.00	0.796	
Toluene*	<0.050	0.050	11/10/2016	ND	2.19	110	2.00	1.56	
Ethylbenzene*	<0.050	0.050	11/10/2016	ND	2.12	106	2.00	2.04	
Total Xylenes*	<0.150	0.150	11/10/2016	ND	6.45	108	6.00	1.98	
Total BTEX	<0.300	0.300	11/10/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	11/07/2016	ND	400	100	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	11/08/2016	ND	172	86.2	200	0.228	
DRO >C10-C28	11.7	10.0	11/08/2016	ND	179	89.4	200	0.918	

Surrogate: 1-Chlorooctane 92.8 % 35-147
Surrogate: 1-Chlorooctadecane 95.1 % 28-171
Sample ID: SP 2 @ 1' (H602494-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/07/2016	ND	400	100	400	0.00	

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Received:	11/04/2016	Sampling Date:	11/03/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	ANDERSON 35 #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 2 @ 2' (H602494-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	11/07/2016	ND	400	100	400	0.00	

Sample ID: SP 3 @ SURFACE (H602494-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.722	0.100	11/10/2016	ND	2.14	107	2.00	0.796	
Toluene*	14.4	0.100	11/10/2016	ND	2.19	110	2.00	1.56	
Ethylbenzene*	2.11	0.100	11/10/2016	ND	2.12	106	2.00	2.04	
Total Xylenes*	7.11	0.300	11/10/2016	ND	6.45	108	6.00	1.98	
Total BTEX	24.3	0.600	11/10/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8260	16.0	11/07/2016	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	178	50.0	11/08/2016	ND	172	86.2	200	0.228		
DRO >C10-C28	11100	50.0	11/08/2016	ND	179	89.4	200	0.918		

Surrogate: 1-Chlorooctane 122 % 35-147

Surrogate: 1-Chlorooctadecane 428 % 28-171

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Received:	11/04/2016	Sampling Date:	11/03/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	ANDERSON 35 #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 3 @ 1' (H602494-08)

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	11/10/2016	ND	2.14	107	2.00	0.796	
Toluene*	0.068	0.050	11/10/2016	ND	2.19	110	2.00	1.56	
Ethylbenzene*	<0.050	0.050	11/10/2016	ND	2.12	106	2.00	2.04	
Total Xylenes*	<0.150	0.150	11/10/2016	ND	6.45	108	6.00	1.98	
Total BTEX	<0.300	0.300	11/10/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/07/2016	ND	400	100	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	11/08/2016	ND	172	86.2	200	0.228	
DRO >C10-C28	<10.0	10.0	11/08/2016	ND	179	89.4	200	0.918	

Surrogate: 1-Chlorooctane 99.2 % 35-147
Surrogate: 1-Chlorooctadecane 100 % 28-171
Sample ID: SP 3 @ 2' (H602494-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/07/2016	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

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Received:	11/04/2016	Sampling Date:	11/03/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	ANDERSON 35 #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 4 @ SURFACE (H602494-10)

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	11/10/2016	ND	2.14	107	2.00	0.796	
Toluene*	<0.050	0.050	11/10/2016	ND	2.19	110	2.00	1.56	
Ethylbenzene*	<0.050	0.050	11/10/2016	ND	2.12	106	2.00	2.04	
Total Xylenes*	<0.150	0.150	11/10/2016	ND	6.45	108	6.00	1.98	
Total BTEX	<0.300	0.300	11/10/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/07/2016	ND	400	100	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	11/08/2016	ND	172	86.2	200	0.228	
DRO >C10-C28	369	10.0	11/08/2016	ND	179	89.4	200	0.918	

Surrogate: 1-Chlorooctane 105 % 35-147

Surrogate: 1-Chlorooctadecane 113 % 28-171

Sample ID: SP 4 @ 1' (H602494-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/07/2016	ND	400	100	400	0.00	

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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:	11/04/2016	Sampling Date:	11/03/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	ANDERSON 35 #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 4 @ 2' (H602494-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/07/2016	ND	400	100	400	0.00	

Sample ID: SP 5 @ SURFACE (H602494-13)

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	11/10/2016	ND	2.14	107	2.00	0.796	
Toluene*	<0.050	0.050	11/10/2016	ND	2.19	110	2.00	1.56	
Ethylbenzene*	<0.050	0.050	11/10/2016	ND	2.12	106	2.00	2.04	
Total Xylenes*	<0.150	0.150	11/10/2016	ND	6.45	108	6.00	1.98	
Total BTEX	<0.300	0.300	11/10/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/07/2016	ND	400	100	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	11/08/2016	ND	172	86.2	200	0.228	
DRO >C10-C28	355	10.0	11/08/2016	ND	179	89.4	200	0.918	

Surrogate: 1-Chlorooctane 93.5 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Received:	11/04/2016	Sampling Date:	11/03/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	ANDERSON 35 #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MILLS RANCH		

Sample ID: SP 5 @ 1' (H602494-14)

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	11/10/2016	ND	2.14	107	2.00	0.796	
Toluene*	<0.050	0.050	11/10/2016	ND	2.19	110	2.00	1.56	
Ethylbenzene*	<0.050	0.050	11/10/2016	ND	2.12	106	2.00	2.04	
Total Xylenes*	<0.150	0.150	11/10/2016	ND	6.45	108	6.00	1.98	
Total BTEX	<0.300	0.300	11/10/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/07/2016	ND	400	100	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	11/08/2016	ND	172	86.2	200	0.228	
DRO >C10-C28	<10.0	10.0	11/08/2016	ND	179	89.4	200	0.918	

Surrogate: 1-Chlorooctane 80.6 % 35-147
Surrogate: 1-Chlorooctadecane 75.2 % 28-171
Sample ID: SP 5 @ 2' (H602494-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/07/2016	ND	400	100	400	0.00	

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*=Accredited Analyte

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/2

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:																
Project Manager: Cliff Brunson		Company:																
Address: P.O. Box 805		Attn:	✓															
City: Hobbs		Address:	✓															
State: NIM zip: 88241		City:	✓															
Phone #: 575-397-6388		State:	✓															
Fax #: 575-397-0397		Zip:	✓															
Project #: _____		Project Owner:	OXY															
Project Name: <i>Adrian 35 #31</i>		City:																
Project Location: <i>Mills Blvd</i>		State:																
Sample Name: <i>1.0</i>		Phone #:																
FOR LAB USE ONLY		Fax #:																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	BTEX	TPH	CI							
11	SP 901	C	1	X			11-3	130	X	X	X							
12	SP 5051	C	1	X				145	X	X	X							
13	SP 5051	C	1	X				200	X	X	X							
14	SP 5051	C	1	X				215	X	X	X							
15	SP 5051	C	1	X				245	X	X	X							

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Relinquished By: *[Signature]* Date: *11-11* Time: *11:30*

Received By: *Cliff Brunson* Date: _____ Time: _____

Delivered By: (Circle One) UPS Bus Other: *-542*

Sample Condition: Cool Intact Yes No

CHECKED BY: *[Signature]*

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

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

REMARKS: *#75*

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

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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

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

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	Anderson 35 #003H	Facility Type	Well
Surface Owner	Jimmy Mills	Mineral Owner	
		API No.	30-025-41780

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	35	21S	32E					Lea County, NM

Latitude N 32.43260° Longitude W 103.65308°

NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	3 bbls oil, 7 bbls produced water	Volume Recovered	5 bbls
Source of Release	Stuffing box packing on well head blew out	Date and Hour of Occurrence	10/27/2016	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Kristen Lynch- NMOCD		
By Whom?	Kathy@ BBC International, Inc.	Date and Hour	10/28/2016 @ 3:36 pm		
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.*
The stuffing box packing on the well head blew out causing a release of 3 bbls of oil and 7 bbls of produced water. A vacuum truck recovered 5 bbls of fluids and the packing was replaced.

Describe Area Affected and Cleanup Action Taken.*
The affected area is approximately 80' x 45' on location around the well head. Remediation will be completed in accordance with a plan approved by NMOCD.

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

Signature:	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: 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: 11-2-16	Phone: (575) 513-8289		

* Attach Additional Sheets If Necessary

From: Yu, Olivia, EMNRD
To: [Cliff Brunson](mailto:Cliff_Brunson); [Casey Summers@oxy.com](mailto:Casey_Summers@oxy.com); [Jennifer Hudgens@oxy.com](mailto:Jennifer_Hudgens@oxy.com)
Cc: [Oberding, Tomas, EMNRD](#); "Jennifer Gilkey"; Ken Swinney; "Kathy Purvis"
Subject: RE: OXY - Anderson 35 #003H - Remediation Plan
Date: Monday, March 6, 2017 8:24:30 AM

Dear Mr. Brunson:

Please address these concerns regarding the delineation workplan for 1RP-4509.

- 1) According to the unscaled drawing, the reported 10 bbls release covered a larger area than expected given the analytical results. Please confirm dimensions of contaminated area on scaled digital map.
- 2) There appears to be pooling at SP 1 and SP2. Chloride levels increase back up at 2ft. bgs. Excavate to 2 ft. bgs at SP1 and SP2 and obtain bottom confirmation samples.
- 3) Obtain bottom confirmation samples after 6" removal of contaminated soil at SP3 for BTEX, TPH, and chlorides.

Olivia Yu
Environmental Specialist
NMOCD, District I
Olivia.yu@state.nm.us
575-393-6161 x113

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

From: Cliff Brunson
Sent: Saturday, January 28, 2017 6:45:00 PM (UTC-07:00) Mountain Time (US & Canada)
To: Lynch, Kristen, EMNRD
Cc: Casey Summers; Jennifer Hudgens; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY - Anderson 35 #003H - Remediation Plan

Kristen,

This e-mail is to confirm our discussion concerning the remediation plan for the OXY Anderson 35 #003H release. I have attached the information packet that we used in our discussion on 2/25/17 with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
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P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
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