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E-MAIL: cbrunson@bbcinternational.com

OXY – CYPRESS 33 FEDERAL #2H BATTERY

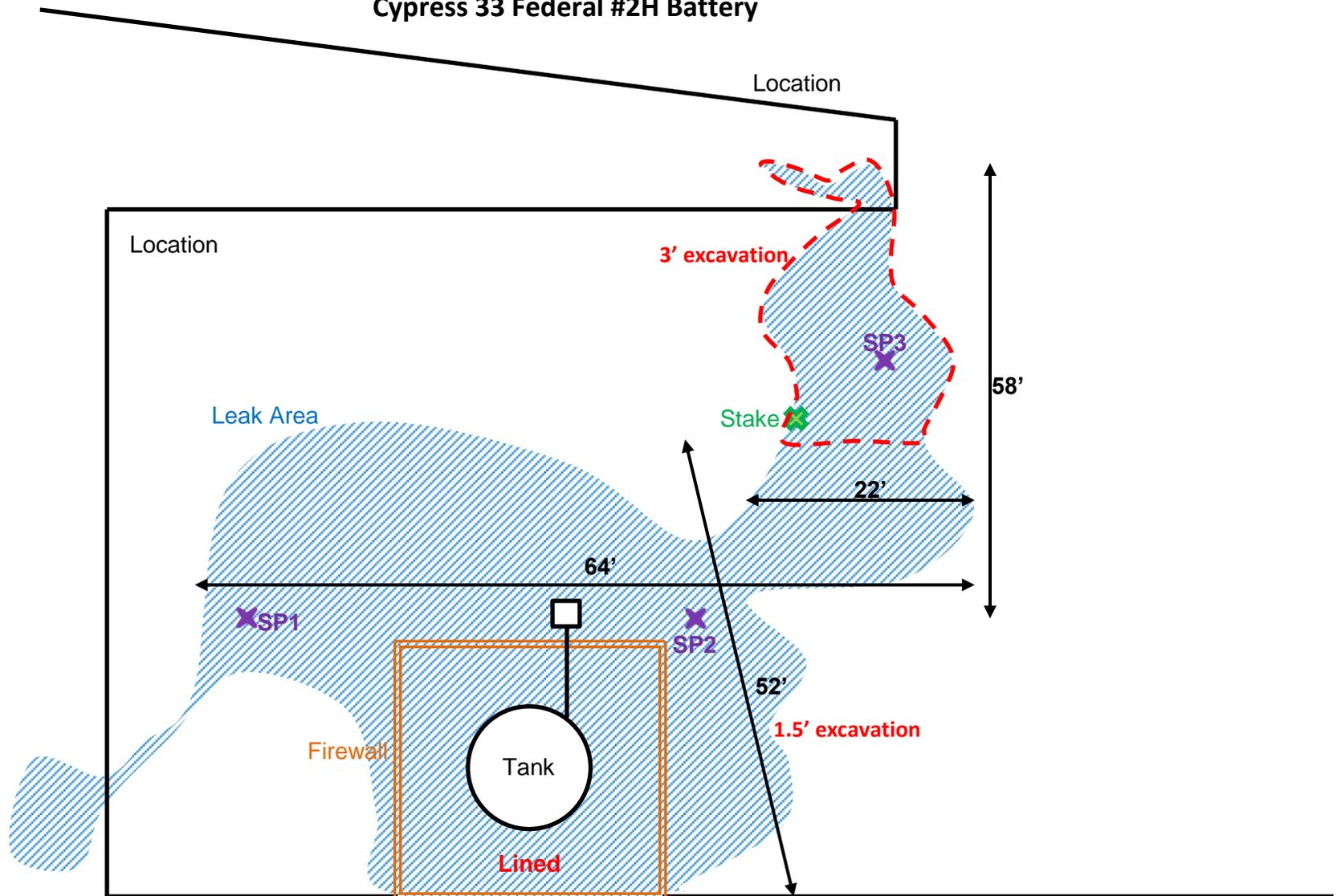
REMEDIATION PLAN

OXY will excavate the spill area as depicted on the following site diagram. The entire spill area will be excavated to a depth of 1.5 feet. In the area near SP2, the excavation will be to a depth of 3 feet. A confirmation sample will be taken in the areas near SP1 and SP3 after excavation and analyzed for BTEX and TPH to confirm the removal of contaminants to acceptable levels. All excavated materials will be disposed of at an NMOCD-approved disposal facility.

The site will then be backfilled with clean soil.



Oxy
Cypress 33 Federal #2H Battery



U/L A, Section 33, T23S, R29E
Eddy County, NM
N 32.26644° W 103.98343°
API# 30-015-37308

BBC International, Inc.	
Oxy	
Cypress 33 Federal #2H Battery	
Date: 04/30/2015	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2015



Groundwater Plot

Oxy Cypress 33 Federal #2H Battery

County
Eddy

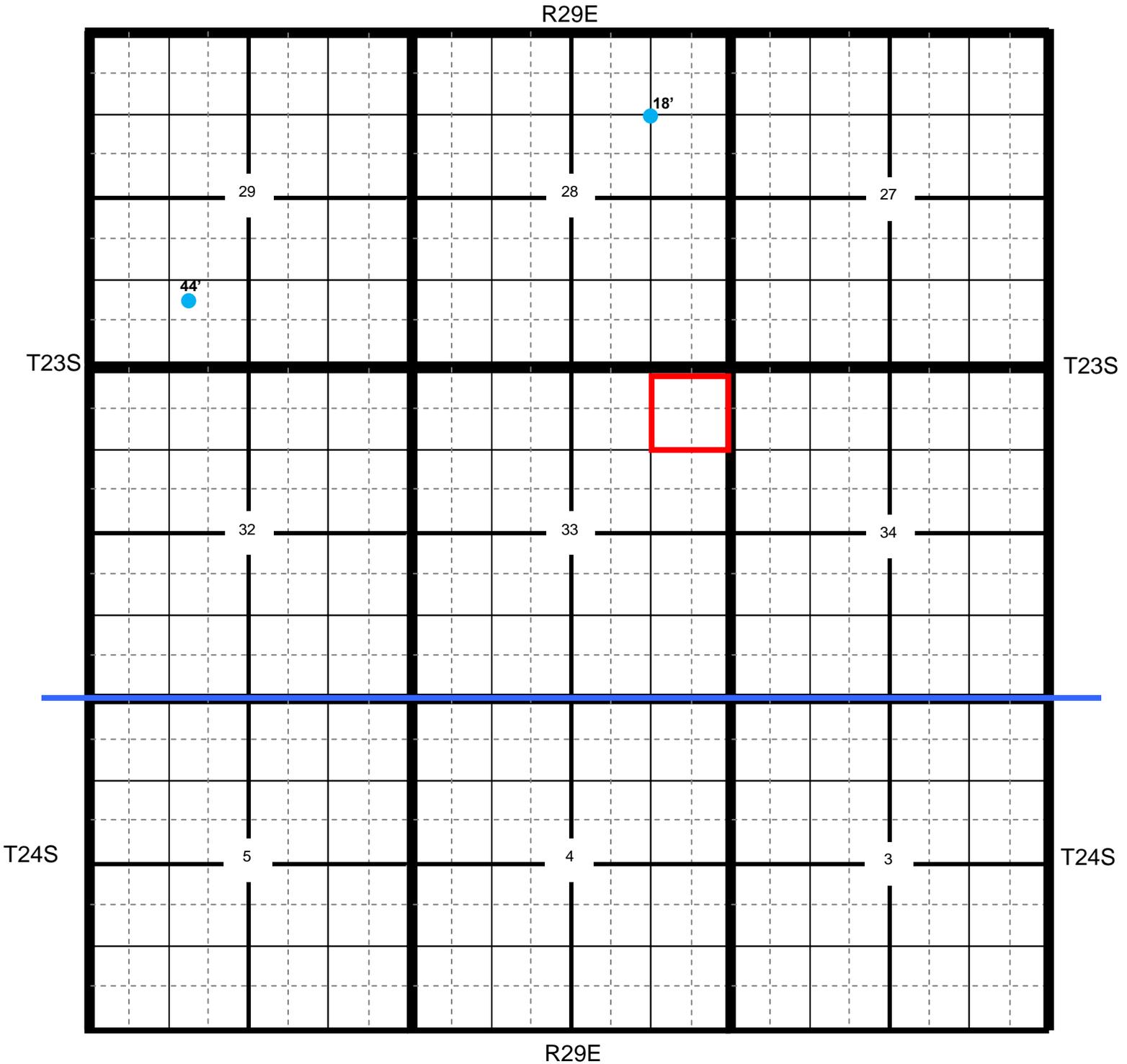
Unit Letter
A

Section
33

Township
23S

Range
29E

Trend Map 50'-75'



📍 Location

● OCD

● USGS

● SEO

● All Databases

Oxy Cypress 33 Federal #2H Battery

County Eddy Unit Letter A Section 33 Township 23S Range 29E

Trend Map 50'-75'

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
Cypress 33 Federal #2H**

Analyte	Method	Sample Date	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 6'
			5/11/15	5/11/15	5/11/15	5/11/15	5/11/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		2.04	7.55	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		29.9	105	0.085	<0.050	<0.050
Ethylbenzene	BTEX 8021B		10	40.5	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		50.9	184	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		92.8	337	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		5280	<16.0	<16.0	128	128
GRO	TPH 8015M		2060	5730	16.7	<10.0	<10.0
DRO	TPH 8015M		69500	15100	306	<10.0	<10.0

Analyte	Method	Sample Date	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'	SP2 @ 6'	SP2 @ 7'
			5/11/15	5/11/15	5/11/15	5/11/15	5/11/15	5/11/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		1.04	3.54	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		16.5	69.9	0.432	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		6.6	32.4	0.502	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		33.1	158	3.01	0.179	<0.150	<0.150
Total BTEX	BTEX 8021B		57.2	264	3.94	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		3760	272	32	128	48	<16.0
GRO	TPH 8015M		1330	3000	156	<10.0	<10.0	<10.0
DRO	TPH 8015M		52100	12800	1680	111	<10.0	<10.0

Analyte	Method	Sample Date	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 6'
			5/11/15	5/11/15	5/12/15	5/12/15	5/12/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.237	5.85	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		5.51	81.4	0.063	<0.050	<0.050
Ethylbenzene	BTEX 8021B		3.52	30.6	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		21	148	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		30.2	266	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		80	<16.0	<16.0	<16.0	<16.0
GRO	TPH 8015M		641	3860	<10.0	<10.0	<10.0
DRO	TPH 8015M		29300	10100	12.8	<10.0	<10.0

May 20, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 33 FEDERAL #2H

Enclosed are the results of analyses for samples received by the laboratory on 05/13/15 16:50.

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,



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:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 1 @ SURFACE (H501235-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.04	1.00	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	29.9	1.00	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	10.0	1.00	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	50.9	3.00	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTEX	92.8	6.00	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 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	5280	16.0	05/18/2015	ND	432	108	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	2060	100	05/15/2015	ND	175	87.4	200	0.307		
DRO >C10-C28	69500	100	05/15/2015	ND	203	102	200	6.78		

Surrogate: 1-Chlorooctane 238 % 47.2-157

Surrogate: 1-Chlorooctadecane 2310 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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

Received:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 1 @ 1 (H501235-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	7.55	5.00	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	105	5.00	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	40.5	5.00	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	184	15.0	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTEX	337	30.0	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	05/18/2015	ND	432	108	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	5730	50.0	05/15/2015	ND	175	87.4	200	0.307		
DRO >C10-C28	15100	50.0	05/15/2015	ND	203	102	200	6.78		

Surrogate: 1-Chlorooctane 225 % 47.2-157

Surrogate: 1-Chlorooctadecane 343 % 52.1-176

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 Cliff Brunson
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Received:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 1 @ 3 (H501235-03)

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	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	0.085	0.050	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	<0.050	0.050	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	<0.150	0.150	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTEX	<0.300	0.300	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	05/18/2015	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	16.7	10.0	05/15/2015	ND	175	87.4	200	0.307	
DRO >C10-C28	306	10.0	05/15/2015	ND	203	102	200	6.78	

Surrogate: 1-Chlorooctane 101 % 47.2-157

Surrogate: 1-Chlorooctadecane 114 % 52.1-176

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Received:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 1 @ 5 (H501235-04)

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	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	<0.050	0.050	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	<0.050	0.050	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	<0.150	0.150	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTEX	<0.300	0.300	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	128	16.0	05/18/2015	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	05/15/2015	ND	175	87.4	200	0.307	
DRO >C10-C28	<10.0	10.0	05/15/2015	ND	203	102	200	6.78	

Surrogate: 1-Chlorooctane 97.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 111 % 52.1-176

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 Fax To: (575) 397-0397

Received:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 1 @ 6 (H501235-05)

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	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	<0.050	0.050	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	<0.050	0.050	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	<0.150	0.150	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTEX	<0.300	0.300	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	128	16.0	05/18/2015	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	05/15/2015	ND	175	87.4	200	0.307	
DRO >C10-C28	<10.0	10.0	05/15/2015	ND	203	102	200	6.78	

Surrogate: 1-Chlorooctane 95.0 % 47.2-157
Surrogate: 1-Chlorooctadecane 114 % 52.1-176

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* = Accredited Analyte

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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:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 2 @ SURFACE (H501235-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.04	0.500	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	16.5	0.500	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	6.60	0.500	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	33.1	1.50	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTEX	57.2	3.00	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 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	3760	16.0	05/18/2015	ND	400	100	400	3.92	

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	1330	100	05/15/2015	ND	175	87.4	200	0.307		
DRO >C10-C28	52100	100	05/15/2015	ND	203	102	200	6.78		

Surrogate: 1-Chlorooctane 185 % 47.2-157

Surrogate: 1-Chlorooctadecane 1920 % 52.1-176

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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:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 2 @ 1 (H501235-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.54	2.00	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	69.9	2.00	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	32.4	2.00	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	158	6.00	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTEX	264	12.0	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 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	272	16.0	05/18/2015	ND	432	108	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	3000	50.0	05/15/2015	ND	175	87.4	200	0.307		
DRO >C10-C28	12800	50.0	05/15/2015	ND	203	102	200	6.78		

Surrogate: 1-Chlorooctane 205 % 47.2-157

Surrogate: 1-Chlorooctadecane 302 % 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:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 2 @ 3 (H501235-08)

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	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	0.432	0.050	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	0.502	0.050	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	3.01	0.150	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTEX	3.94	0.300	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	32.0	16.0	05/18/2015	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	156	10.0	05/15/2015	ND	175	87.4	200	0.307	
DRO >C10-C28	1680	10.0	05/15/2015	ND	203	102	200	6.78	

Surrogate: 1-Chlorooctane 115 % 47.2-157

Surrogate: 1-Chlorooctadecane 131 % 52.1-176

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 Cliff Brunson
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Received:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 2 @ 5 (H501235-09)

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	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	<0.050	0.050	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	<0.050	0.050	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	0.179	0.150	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTEX	<0.300	0.300	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	128	16.0	05/18/2015	ND	400	100	400	3.92	

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	05/15/2015	ND	175	87.4	200	0.307	
DRO >C10-C28	111	10.0	05/15/2015	ND	203	102	200	6.78	

Surrogate: 1-Chlorooctane 100 % 47.2-157

Surrogate: 1-Chlorooctadecane 121 % 52.1-176

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Received:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 2 @ 6 (H501235-10)

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	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	<0.050	0.050	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	<0.050	0.050	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	<0.150	0.150	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTEX	<0.300	0.300	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	48.0	16.0	05/18/2015	ND	400	100	400	3.92	

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	05/15/2015	ND	175	87.4	200	0.307	
DRO >C10-C28	<10.0	10.0	05/15/2015	ND	203	102	200	6.78	

Surrogate: 1-Chlorooctane 95.1 % 47.2-157
Surrogate: 1-Chlorooctadecane 112 % 52.1-176

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Received:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 2 @ 7 (H501235-11)

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	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	<0.050	0.050	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	<0.050	0.050	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	<0.150	0.150	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTEX	<0.300	0.300	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	05/18/2015	ND	400	100	400	3.92	

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	05/18/2015	ND	173	86.6	200	1.90	
DRO >C10-C28	<10.0	10.0	05/18/2015	ND	198	99.0	200	1.16	

Surrogate: 1-Chlorooctane 98.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 111 % 52.1-176

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Received:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 3 @ SURFACE (H501235-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.237	0.200	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	5.51	0.200	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	3.52	0.200	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	21.0	0.600	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTEX	30.2	1.20	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	80.0	16.0	05/18/2015	ND	400	100	400	3.92	

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	641	50.0	05/18/2015	ND	173	86.6	200	1.90		
DRO >C10-C28	29300	50.0	05/18/2015	ND	198	99.0	200	1.16		

Surrogate: 1-Chlorooctane 206 % 47.2-157

Surrogate: 1-Chlorooctadecane 890 % 52.1-176

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Received:	05/13/2015	Sampling Date:	05/11/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 3 @ 1 (H501235-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.85	2.00	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	81.4	2.00	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	30.6	2.00	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	148	6.00	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTEX	266	12.0	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 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	05/18/2015	ND	400	100	400	3.92	

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	3860	50.0	05/18/2015	ND	173	86.6	200	1.90		
DRO >C10-C28	10100	50.0	05/18/2015	ND	198	99.0	200	1.16		

Surrogate: 1-Chlorooctane 193 % 47.2-157

Surrogate: 1-Chlorooctadecane 244 % 52.1-176

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Received:	05/13/2015	Sampling Date:	05/12/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 3 @ 3 (H501235-14)

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	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	0.063	0.050	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	<0.050	0.050	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	<0.150	0.150	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTEX	<0.300	0.300	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	05/18/2015	ND	400	100	400	3.92	

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	05/18/2015	ND	173	86.6	200	1.90	
DRO >C10-C28	12.8	10.0	05/18/2015	ND	198	99.0	200	1.16	

Surrogate: 1-Chlorooctane 99.0 % 47.2-157
Surrogate: 1-Chlorooctadecane 115 % 52.1-176

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Received:	05/13/2015	Sampling Date:	05/12/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 3 @ 5 (H501235-15)

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	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	<0.050	0.050	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	<0.050	0.050	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	<0.150	0.150	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTEX	<0.300	0.300	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	05/18/2015	ND	400	100	400	3.92	

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	05/18/2015	ND	173	86.6	200	1.90	
DRO >C10-C28	<10.0	10.0	05/18/2015	ND	198	99.0	200	1.16	

Surrogate: 1-Chlorooctane 98.6 % 47.2-157
Surrogate: 1-Chlorooctadecane 116 % 52.1-176

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Received:	05/13/2015	Sampling Date:	05/12/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	CYPRESS 33 FEDERAL #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	RAWHIDE ROAD		

Sample ID: SP 3 @ 6 (H501235-16)

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	05/20/2015	ND	1.77	88.3	2.00	0.512	
Toluene*	<0.050	0.050	05/20/2015	ND	1.89	94.5	2.00	0.771	
Ethylbenzene*	<0.050	0.050	05/20/2015	ND	1.79	89.7	2.00	1.34	
Total Xylenes*	<0.150	0.150	05/20/2015	ND	5.33	88.8	6.00	0.885	
Total BTEX	<0.300	0.300	05/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	05/18/2015	ND	400	100	400	3.92	

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	05/18/2015	ND	173	86.6	200	1.90	
DRO >C10-C28	<10.0	10.0	05/18/2015	ND	198	99.0	200	1.16	

Surrogate: 1-Chlorooctane 102 % 47.2-157
Surrogate: 1-Chlorooctadecane 115 % 52.1-176

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



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

1/2

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST															
Project Manager: Cliff Brunson		P.O. #:																	
Address: P.O. Box 805		Company:																	
City: Hobbs		Attn:																	
State: NM zip: 88241		Address:																	
Phone #: 575-397-6388		City:																	
Fax #: 575-397-0397		State:																	
Project #: Project Owner: OXY		Zip:																	
Project Name: Cypress 33 Federal 1 2H		Phone #:																	
Project Location: Pawhide Road		Fax #:																	
Sampler Name: Jeff Ornelas		PRESERV		SAMPLING															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	DATE	TIME	BTEX	TPH	Cl-										
H501235	SP10 Surface	G	1	X	5-11	1030	X	X	X										
1	@ 1	G	1	X		1055	X	X	X										
2	e 3	G	1	X		1149	X	X	X										
3	e 5	G	1	X		1101	X	X	X										
4	e 6	G	1	X		1111	X	X	X										
5	SP20 Surface	G	1	X		112	X	X	X										
6	@ 1	G	1	X		115	X	X	X										
7	e 3	G	1	X		209	X	X	X										
8	e 5	G	1	X		246	X	X	X										
9	e 6	G	1	X		258	X	X	X										
10	e 6	G	1	X															

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Relinquished By: Jeff Ornelas Date: 5/13/15 Time: 4:50
 Received By: Heidi Stenwer Date: 5/13/15 Time: 4:50

Delivered By: (Circle One) UPS -3.80
 Sampler - UPS - Bus - Other: Yes No

CHECKED BY: (Initials) JS

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

REMARKS:



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/2

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST							
Project Manager: Cliff Brunson		P.O. #:									
Address: P.O. Box 805		Company:									
City: Hobbs		Attn:									
State: NM Zip: 88241		Address:									
Phone #: 575-397-6388		City:		SYME							
Fax #: 575-397-0397		State:		Zip:							
Project #: -		Project Owner: Oxy									
Project Name: Cypress 33 Federal 24		Project Location: Rubide Road									
Sampler Name: Jeff Donckels		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	Cl-
1501235	SP207	G	1	SOIL	X	5-11	321	X	X	X	
12	SP30 Surface	G	1	WASTEWATER	X	5-11	320	X	X	X	
13	e1	G	1	SLUDGE	X	5-11	335	X	X	X	
14	e3	G	1	OTHER:	X	5-12	10/10	X	X	X	
15	e5	G	1	ACID/BASE:	X	5-12	1150	X	X	X	
16	e6	G	1	ICE / COOL	X	5-12	108	X	X	X	

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Relinquished By: Jeff Donckels Date: 5-13-15 Time: 4:30 PM
 Received By: Jeff Donckels Date: 5-13-15 Time: 4:30 PM

Delivered By: (Circle One) UPS - Bus - Other: -3.80

Sample Condition: Cool Intact
 Yes No Yes No

CHECKED BY: (Initials) JFD

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

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 19.1.5.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Cypress 33 Federal #2H Battery	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-37308

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	33	23S	29E					Eddy County, NM

Latitude N 32.26644° Longitude W 103.98343°

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	12 bbls oil, 13 bbls produced water	Volume Recovered	0 bbls
Source of Release	Valve was left open causing the tank to spill over	Date and Hour of Occurrence	04/22/2015	Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher-NMOCD, James Amos-BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	04/28/2015 @ 9:41 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A valve was left open causing the tank to spill 12 bbls of oil and 13 bbls of produced water onto the ground. No fluids were recovered and the valve was placed in the correct position.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 75' x 100' with the spill staying on location. Remediation will be completed in accordance with a remediation plan approved by both NMOCD and the BLM.

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

Signature: Chris Jones	<small>Digitally signed by Chris Jones DN: cn=Chris Jones, o, ou, email=ckjones888@yahoo.com, c=US Date: 2015.04.30 12:52:45 -05'00'</small>	OIL CONSERVATION DIVISION	
Printed Name: Christopher Jones	Approved by Environmental Specialist:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Christopher.Jones@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date:	Phone: (575) 628-4121		

* Attach Additional Sheets If Necessary