



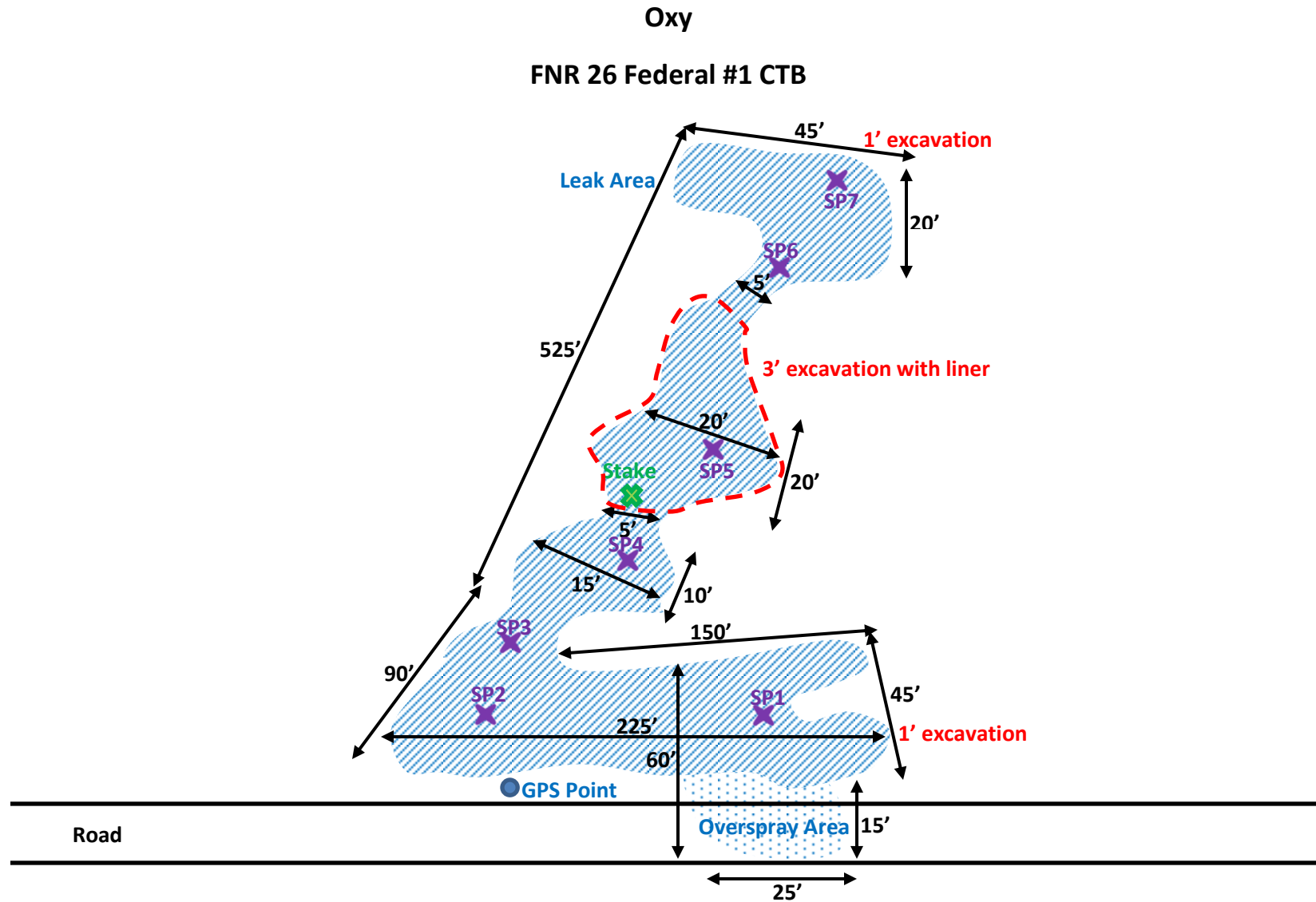
PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805
E-MAIL: cbrunson@bbcinternational.com

OXY – FNR 26 FEDERAL #1 CTB

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 foot. In the area near SP5, the excavation will be to a depth of 3 feet with a liner placed in the bottom of the excavation. All excavated materials will be disposed of at an NMOCD-approved disposal facility.

The site will then be backfilled with clean soil.



U/L D, Section 31, T23S, R31E
Eddy County, NM
GPS Point: N 32.26522° W 103.82315°

BBC International, Inc.

Oxy
FNR 26 Federal #1 CTB

Date: 05/28/15

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2015

Groundwater Plot

Oxy FNR 26 Federal #1 CTB

County
Eddy

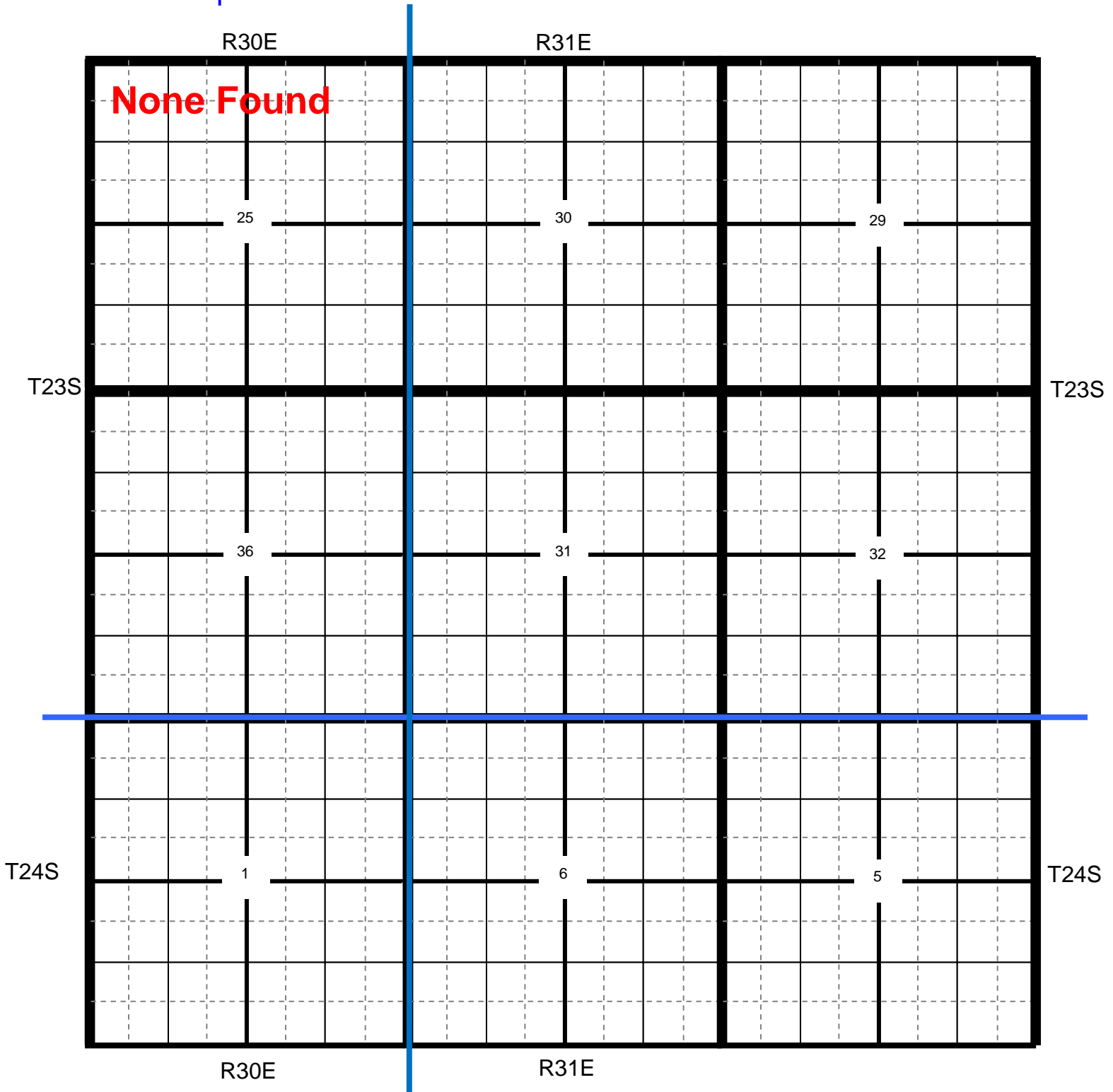
Unit Letter
D

Section
31

Township
23S

Range
31E

Trend Map 300'



📍 Location

● OCD

● USGS

● SEO

● All Databases

Oxy FNR 26 Federal #1 CTB

County Eddy	Unit Letter D	Section 31	Township 23S	Range 31E
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Trend Map 300'

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
FNR 26 Federal #1 CTB (5/20/15)

		Sample	SP1 @ SURFACE	SP1 @ 1'
Analyte	Method	Date	7/6/15	7/6/15
			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	SM4500Cl-B		80000	80
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		11.1	<10.0

		Sample	SP2 @ SURFACE	SP2 @ 1'
Analyte	Method	Date	7/6/15	7/6/15
			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	SM4500Cl-B		5440	64
GRO	TPH 8015M		<100	<10.0
DRO	TPH 8015M		16200	11.9

		Sample	SP3 @ SURFACE	SP3 @ 1'
Analyte	Method	Date	7/6/15	7/6/15
			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	SM4500Cl-B		5040	80
GRO	TPH 8015M		<100	<10.0
DRO	TPH 8015M		17600	<10.0

		Sample	SP4 @ SURFACE	SP4 @ 1'
Analyte	Method	Date	7/6/15	7/6/15
			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	SM4500Cl-B		7600	128
GRO	TPH 8015M		<100	<10.0
DRO	TPH 8015M		9960	23.3

		Sample	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 3'	SP5 @ 5'	SP5 @ 7'	SP5 @ 9'	SP5 @ 10'
Analyte	Method	Date	7/6/15	7/6/15	7/7/15	7/7/15	7/7/15	7/7/15	7/7/15
			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	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		5360	11100	7330	5440	20800	4800	<16.0
GRO	TPH 8015M		<100	<10.0	<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		48700	1490	<10.0	<10.0	n/a	n/a	n/a

		Sample	SP6 @ SURFACE	SP6 @ 1'
Analyte	Method	Date	7/7/15	7/7/15
			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	SM4500Cl-B		40800	96
GRO	TPH 8015M		<100	<10.0
DRO	TPH 8015M		5930	33.4

		Sample	SP7 @ SURFACE	SP7 @ 1'
Analyte	Method	Date	7/7/15	7/7/15
			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	SM4500Cl-B		5760	96
GRO	TPH 8015M		<100	<10.0
DRO	TPH 8015M		19800	31.5



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

July 16, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: FNR 26 FED #1 CTB

Enclosed are the results of analyses for samples received by the laboratory on 07/09/15 15:10.

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/09/2015
Reported: 07/16/2015
Project Name: FNR 26 FED #1 CTB
Project Number: NONE GIVEN
Project Location: TWIN WELLS ROAD

Sampling Date: 07/06/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H501764-01)

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	07/15/2015	ND	2.22	111	2.00	2.79	
Toluene*	<0.050	0.050	07/15/2015	ND	1.97	98.6	2.00	3.30	
Ethylbenzene*	<0.050	0.050	07/15/2015	ND	1.94	96.8	2.00	3.71	
Total Xylenes*	<0.150	0.150	07/15/2015	ND	5.74	95.7	6.00	4.63	
Total BTX	<0.300	0.300	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80000	16.0	07/14/2015	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	07/11/2015	ND	192	95.9	200	3.47	
DRO >C10-C28	11.1	10.0	07/11/2015	ND	187	93.7	200	6.72	

Surrogate: 1-Chlorooctane 81.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.1 % 52.1-176

Cardinal Laboratories

*=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: 07/09/2015
Reported: 07/16/2015
Project Name: FNR 26 FED #1 CTB
Project Number: NONE GIVEN
Project Location: TWIN WELLS ROAD

Sampling Date: 07/06/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H501764-02)

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	07/15/2015	ND	2.22	111	2.00	2.79		
Toluene*	<0.050	0.050	07/15/2015	ND	1.97	98.6	2.00	3.30		
Ethylbenzene*	<0.050	0.050	07/15/2015	ND	1.94	96.8	2.00	3.71		
Total Xylenes*	<0.150	0.150	07/15/2015	ND	5.74	95.7	6.00	4.63		
Total BTX	<0.300	0.300	07/15/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 85.6-137

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	07/14/2015	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	07/11/2015	ND	192	95.9	200	3.47	
DRO >C10-C28	<10.0	10.0	07/11/2015	ND	187	93.7	200	6.72	

Surrogate: 1-Chlorooctane 96.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 104 % 52.1-176

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Received: 07/09/2015
Reported: 07/16/2015
Project Name: FNR 26 FED #1 CTB
Project Number: NONE GIVEN
Project Location: TWIN WELLS ROAD

Sampling Date: 07/06/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ SURFACE (H501764-03)

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	07/15/2015	ND	2.22	111	2.00	2.79		
Toluene*	<0.050	0.050	07/15/2015	ND	1.97	98.6	2.00	3.30		
Ethylbenzene*	<0.050	0.050	07/15/2015	ND	1.94	96.8	2.00	3.71		
Total Xylenes*	<0.150	0.150	07/15/2015	ND	5.74	95.7	6.00	4.63		
Total BTX	<0.300	0.300	07/15/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	07/14/2015	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	<100	100	07/13/2015	ND	192	95.9	200	3.47	
DRO >C10-C28	16200	100	07/13/2015	ND	187	93.7	200	6.72	

Surrogate: 1-Chlorooctane 99.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 263 % 52.1-176

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 Received: 07/09/2015
 Reported: 07/16/2015
 Project Name: FNR 26 FED #1 CTB
 Project Number: NONE GIVEN
 Project Location: TWIN WELLS ROAD

 Sampling Date: 07/06/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H501764-04)

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	07/15/2015	ND	1.94	97.2	2.00	2.59	
Toluene*	<0.050	0.050	07/15/2015	ND	2.10	105	2.00	2.17	
Ethylbenzene*	<0.050	0.050	07/15/2015	ND	1.97	98.6	2.00	3.58	
Total Xylenes*	<0.150	0.150	07/15/2015	ND	6.07	101	6.00	4.27	
Total BTEx	<0.300	0.300	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.7 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/14/2015	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	07/13/2015	ND	203	101	200	1.36	
DRO >C10-C28	11.9	10.0	07/13/2015	ND	215	108	200	1.96	

Surrogate: 1-Chlorooctane 86.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 67.6 % 52.1-176

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Received: 07/09/2015
Reported: 07/16/2015
Project Name: FNR 26 FED #1 CTB
Project Number: NONE GIVEN
Project Location: TWIN WELLS ROAD

Sampling Date: 07/06/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ SURFACE (H501764-05)

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	07/15/2015	ND	1.94	97.2	2.00	2.59		
Toluene*	<0.050	0.050	07/15/2015	ND	2.10	105	2.00	2.17		
Ethylbenzene*	<0.050	0.050	07/15/2015	ND	1.97	98.6	2.00	3.58		
Total Xylenes*	<0.150	0.150	07/15/2015	ND	6.07	101	6.00	4.27		
Total BTEx	<0.300	0.300	07/15/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.7 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	07/14/2015	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	<100	100	07/13/2015	ND	203	101	200	1.36	
DRO >C10-C28	17600	100	07/13/2015	ND	215	108	200	1.96	

Surrogate: 1-Chlorooctane 167 % 47.2-157

Surrogate: 1-Chlorooctadecane 482 % 52.1-176

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Received: 07/09/2015
Reported: 07/16/2015
Project Name: FNR 26 FED #1 CTB
Project Number: NONE GIVEN
Project Location: TWIN WELLS ROAD

Sampling Date: 07/06/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H501764-06)

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	07/15/2015	ND	1.94	97.2	2.00	2.59	
Toluene*	<0.050	0.050	07/15/2015	ND	2.10	105	2.00	2.17	
Ethylbenzene*	<0.050	0.050	07/15/2015	ND	1.97	98.6	2.00	3.58	
Total Xylenes*	<0.150	0.150	07/15/2015	ND	6.07	101	6.00	4.27	
Total BTEx	<0.300	0.300	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 85.6-137

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	07/14/2015	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	07/13/2015	ND	203	101	200	1.36	
DRO >C10-C28	<10.0	10.0	07/13/2015	ND	215	108	200	1.96	

Surrogate: 1-Chlorooctane 97.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 90.5 % 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: 07/09/2015
 Reported: 07/16/2015
 Project Name: FNR 26 FED #1 CTB
 Project Number: NONE GIVEN
 Project Location: TWIN WELLS ROAD

 Sampling Date: 07/06/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ SURFACE (H501764-07)

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	07/15/2015	ND	1.94	97.2	2.00	2.59		
Toluene*	<0.050	0.050	07/15/2015	ND	2.10	105	2.00	2.17		
Ethylbenzene*	<0.050	0.050	07/15/2015	ND	1.97	98.6	2.00	3.58		
Total Xylenes*	<0.150	0.150	07/15/2015	ND	6.07	101	6.00	4.27		
Total BTEx	<0.300	0.300	07/15/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.7 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	07/15/2015	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	<100	100	07/13/2015	ND	203	101	200	1.36	
DRO >C10-C28	9960	100	07/13/2015	ND	215	108	200	1.96	

Surrogate: 1-Chlorooctane 84.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 317 % 52.1-176

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Received: 07/09/2015
Reported: 07/16/2015
Project Name: FNR 26 FED #1 CTB
Project Number: NONE GIVEN
Project Location: TWIN WELLS ROAD

Sampling Date: 07/06/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ 1' (H501764-08)

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	07/15/2015	ND	1.94	97.2	2.00	2.59	
Toluene*	<0.050	0.050	07/15/2015	ND	2.10	105	2.00	2.17	
Ethylbenzene*	<0.050	0.050	07/15/2015	ND	1.97	98.6	2.00	3.58	
Total Xylenes*	<0.150	0.150	07/15/2015	ND	6.07	101	6.00	4.27	
Total BTEx	<0.300	0.300	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.5 % 85.6-137

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	07/15/2015	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	07/13/2015	ND	203	101	200	1.36	
DRO >C10-C28	23.3	10.0	07/13/2015	ND	215	108	200	1.96	

Surrogate: 1-Chlorooctane 98.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 103 % 52.1-176

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Received: 07/09/2015
Reported: 07/16/2015
Project Name: FNR 26 FED #1 CTB
Project Number: NONE GIVEN
Project Location: TWIN WELLS ROAD

Sampling Date: 07/06/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ SURFACE (H501764-09)

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	07/15/2015	ND	1.94	97.2	2.00	2.59		
Toluene*	<0.050	0.050	07/15/2015	ND	2.10	105	2.00	2.17		
Ethylbenzene*	<0.050	0.050	07/15/2015	ND	1.97	98.6	2.00	3.58		
Total Xylenes*	<0.150	0.150	07/15/2015	ND	6.07	101	6.00	4.27		
Total BTEx	<0.300	0.300	07/15/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.5 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	07/15/2015	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	<100	100	07/13/2015	ND	203	101	200	1.36		
DRO >C10-C28	48700	100	07/13/2015	ND	215	108	200	1.96		

Surrogate: 1-Chlorooctane 74.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 1630 % 52.1-176

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Received: 07/09/2015
Reported: 07/16/2015
Project Name: FNR 26 FED #1 CTB
Project Number: NONE GIVEN
Project Location: TWIN WELLS ROAD

Sampling Date: 07/06/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ 1' (H501764-10)

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	07/15/2015	ND	1.94	97.2	2.00	2.59	
Toluene*	<0.050	0.050	07/15/2015	ND	2.10	105	2.00	2.17	
Ethylbenzene*	<0.050	0.050	07/15/2015	ND	1.97	98.6	2.00	3.58	
Total Xylenes*	<0.150	0.150	07/15/2015	ND	6.07	101	6.00	4.27	
Total BTEx	<0.300	0.300	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.3 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11100	16.0	07/15/2015	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	07/13/2015	ND	203	101	200	1.36	
DRO >C10-C28	1490	10.0	07/13/2015	ND	215	108	200	1.96	

Surrogate: 1-Chlorooctane 96.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.3 % 52.1-176

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Received: 07/09/2015
Reported: 07/16/2015
Project Name: FNR 26 FED #1 CTB
Project Number: NONE GIVEN
Project Location: TWIN WELLS ROAD

Sampling Date: 07/07/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ 3' (H501764-11)

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	07/15/2015	ND	1.94	97.2	2.00	2.59	
Toluene*	<0.050	0.050	07/15/2015	ND	2.10	105	2.00	2.17	
Ethylbenzene*	<0.050	0.050	07/15/2015	ND	1.97	98.6	2.00	3.58	
Total Xylenes*	<0.150	0.150	07/15/2015	ND	6.07	101	6.00	4.27	
Total BTEx	<0.300	0.300	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7330	16.0	07/15/2015	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	07/13/2015	ND	203	101	200	1.36	
DRO >C10-C28	<10.0	10.0	07/13/2015	ND	215	108	200	1.96	

Surrogate: 1-Chlorooctane 91.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 98.1 % 52.1-176

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Received: 07/09/2015
Reported: 07/16/2015
Project Name: FNR 26 FED #1 CTB
Project Number: NONE GIVEN
Project Location: TWIN WELLS ROAD

Sampling Date: 07/07/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ 5' (H501764-12)

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	07/15/2015	ND	1.94	97.2	2.00	2.59	
Toluene*	<0.050	0.050	07/15/2015	ND	2.10	105	2.00	2.17	
Ethylbenzene*	<0.050	0.050	07/15/2015	ND	1.97	98.6	2.00	3.58	
Total Xylenes*	<0.150	0.150	07/15/2015	ND	6.07	101	6.00	4.27	
Total BTEX	<0.300	0.300	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.0 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	07/15/2015	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	07/13/2015	ND	203	101	200	1.36	
DRO >C10-C28	<10.0	10.0	07/13/2015	ND	215	108	200	1.96	

Surrogate: 1-Chlorooctane 96.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 94.5 % 52.1-176

Sample ID: SP 5 @ 7' (H501764-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20800	16.0	07/15/2015	ND	432	108	400	0.00	

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

Received: 07/09/2015
Reported: 07/16/2015
Project Name: FNR 26 FED #1 CTB
Project Number: NONE GIVEN
Project Location: TWIN WELLS ROAD

Sampling Date: 07/07/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ 9' (H501764-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	07/15/2015	ND	432	108	400	0.00	

Sample ID: SP 5 @ 10' (H501764-15)

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	07/15/2015	ND	432	108	400	0.00		

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Received: 07/09/2015
Reported: 07/16/2015
Project Name: FNR 26 FED #1 CTB
Project Number: NONE GIVEN
Project Location: TWIN WELLS ROAD

Sampling Date: 07/07/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 6 @ SURFACE (H501764-16)

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	07/15/2015	ND	1.94	97.2	2.00	2.59		
Toluene*	<0.050	0.050	07/15/2015	ND	2.10	105	2.00	2.17		
Ethylbenzene*	<0.050	0.050	07/15/2015	ND	1.97	98.6	2.00	3.58		
Total Xylenes*	<0.150	0.150	07/15/2015	ND	6.07	101	6.00	4.27		
Total BTEx	<0.300	0.300	07/15/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	40800	16.0	07/15/2015	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	<100	100	07/14/2015	ND	197	98.3	200	3.85		
DRO >C10-C28	5930	100	07/14/2015	ND	178	88.8	200	17.1		

Surrogate: 1-Chlorooctane 98.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 395 % 52.1-176

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Received: 07/09/2015
Reported: 07/16/2015
Project Name: FNR 26 FED #1 CTB
Project Number: NONE GIVEN
Project Location: TWIN WELLS ROAD

Sampling Date: 07/07/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 6 @ 1' (H501764-17)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2015	ND	1.94	97.2	2.00	2.59	
Toluene*	<0.050	0.050	07/15/2015	ND	2.10	105	2.00	2.17	
Ethylbenzene*	<0.050	0.050	07/15/2015	ND	1.97	98.6	2.00	3.58	
Total Xylenes*	<0.150	0.150	07/15/2015	ND	6.07	101	6.00	4.27	
Total BTEx	<0.300	0.300	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.5 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/15/2015	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	07/14/2015	ND	197	98.3	200	3.85	
DRO >C10-C28	33.4	10.0	07/14/2015	ND	178	88.8	200	17.1	

Surrogate: 1-Chlorooctane 96.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 101 % 52.1-176

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Received: 07/09/2015
Reported: 07/16/2015
Project Name: FNR 26 FED #1 CTB
Project Number: NONE GIVEN
Project Location: TWIN WELLS ROAD

Sampling Date: 07/07/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 7 @ SURFACE (H501764-18)

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	07/15/2015	ND	1.94	97.2	2.00	2.59		
Toluene*	<0.050	0.050	07/15/2015	ND	2.10	105	2.00	2.17		
Ethylbenzene*	<0.050	0.050	07/15/2015	ND	1.97	98.6	2.00	3.58		
Total Xylenes*	<0.150	0.150	07/15/2015	ND	6.07	101	6.00	4.27		
Total BTEx	<0.300	0.300	07/15/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.1 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5760	16.0	07/15/2015	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	<100	100	07/14/2015	ND	197	98.3	200	3.85	
DRO >C10-C28	19800	100	07/14/2015	ND	178	88.8	200	17.1	

Surrogate: 1-Chlorooctane 90.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 573 % 52.1-176

Cardinal Laboratories

*=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: 07/09/2015
Reported: 07/16/2015
Project Name: FNR 26 FED #1 CTB
Project Number: NONE GIVEN
Project Location: TWIN WELLS ROAD

Sampling Date: 07/07/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 7 @ 1' (H501764-19)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2015	ND	1.94	97.2	2.00	2.59	
Toluene*	<0.050	0.050	07/15/2015	ND	2.10	105	2.00	2.17	
Ethylbenzene*	<0.050	0.050	07/15/2015	ND	1.97	98.6	2.00	3.58	
Total Xylenes*	<0.150	0.150	07/15/2015	ND	6.07	101	6.00	4.27	
Total BTEx	<0.300	0.300	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.1 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/15/2015	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	07/14/2015	ND	197	98.3	200	3.85	
DRO >C10-C28	31.5	10.0	07/14/2015	ND	178	88.8	200	17.1	

Surrogate: 1-Chlorooctane 83.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 70.2 % 52.1-176

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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.
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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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

Company Name: BBC International, Inc.
Project Manager: Cliff Brunson
Address: P.O. Box 805
City: Hobbs
Phone #: 575-397-6388
Project #:

BILL TO
P.O. #:
Company:
Attn:

ANALYSIS REQUEST

State: NM Zip: 88241
Fax #: 575-397-0397
Project Owner: OXY

Project Name: FINE 26 TAPAL #1 CTS 54015
Project Location: TWIN WELLS
Sample Name: 17111 CTS 54015

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Matrix: (G)RAB OR (C)OMP
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER:
ACID/BASE:
ICE / COOL
OTHER:

PRESERV: SAMPLING: DATE: TIME:

1 H5017164
2 SP1E SURFAC
3 SP2E SURFAC
4 SP2E SURFAC
5 SP3E SURFAC
6 SP4E SURFAC
7 SP5E SURFAC
8 SP5E SURFAC
9 SP5E SURFAC
10 SP5E SURFAC

7.6 900 910 939 1000 1037 1161 1133 1146 138 208

BTEX
TPH
CL

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Relinquished By: [Signature]
Date: 7/9/15
Time: 3:10
Received By: [Signature]
Date: 7/9/15
Time: 3:10

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

REMARKS:

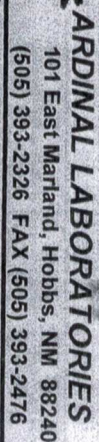
Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Sample Condition
Cool ☒ Intact ☐
Yes ☒ No ☐

CHECKED BY: [Signature]

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

#54



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



Company Name: BBC International, Inc. Project Manager: Cliff Brunson Address: P.O. Box 805 City: Hobbs State: NM Zip: 88241 Phone #: 575-397-6388 Fax #: 575-397-0397 Project #: Project Name: Eagle 26 Federal #1 CTR 5-20-15 Project Location: Turn wells Sampler Name: VSO <small>FOR LAB USE ONLY</small>				P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:			
Lab I.D. H507164 Sample I.D.				BILL TO ANALYSIS REQUEST			
Relinquished By: <i>[Signature]</i> Relinquished By: <i>[Signature]</i> Date: 2-9-15 Time: Date: Time:				Received By: <i>[Signature]</i> Received By: <i>[Signature]</i> Date: Time:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
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Matrix: (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:				PRESERV SAMPLING BTEX TPH CL-			
REMARKS:				REMARKS:			

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(432) 685-5824
Facility Name	FNR 26 Federal #1 CTB	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-15-30412

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	31	23S	31E					Eddy County, NM

Latitude N 32.26522° Longitude W 103.82315°

NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	10 bbls oil, 70 bbls produced water	Volume Recovered	0 bbls
Source of Release	Stress/fatigue of a 3" water transfer line	Date and Hour of Occurrence	05/20/2015	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?			
By Whom?		Date and Hour			
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.*					
Stress/fatigue of a 3" water transfer line caused 10 bbls oil and 70 bbls of produced water to leak onto the ground. The line was repaired or replaced and no fluids were recovered.					
Describe Area Affected and Cleanup Action Taken.*					
The affected area is approximately 600' x 250' off of location. Remediation will be completed in accordance with a remediation plan approved by NMOCD and the BLM.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Signature: 		<u>OIL CONSERVATION DIVISION</u>			
Printed Name: Chancey Summers		Approved by Environmental Specialist:			
Title: HES Lead		Approval Date:		Expiration Date:	
E-mail Address: Chancey_Summers@oxy.com		Conditions of Approval:		Attached <input type="checkbox"/>	
Date: <u>7-13-15</u> Phone: (432) 685-5824					

* Attach Additional Sheets If Necessary