



DELINEATION WORKPLAN

OXY – GOODNIGHT 27 FEDERAL #002H (Leak Date: 10/12/16)

RP # 2RP-3948
API # 30-015-43809

This delineation workplan and remediation proposal addresses the release associated with RP # 2RP-3948.

The following information includes:

1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
2. GPS information for sample points and sample methodology
3. Depth to groundwater information (i.e., pdf of OSE search results and/or copy of Chevron groundwater trend map).
4. Laboratory analysis results summary table and original laboratory analysis reports
5. A copy of the initial C-141
6. Potentially other pertinent information as necessary for site specific purposes.

Based on the information included in this package and the NMOCD guidelines, the following remediation is proposed:

OXY will excavate the spill area as depicted on the following site diagram. The leak area near SP1 (shaded in blue) will be excavated to a depth of 2 feet. The area near SP2, SP3, SP4 and SP5 (shaded in pink) will be excavated to a depth of 6 inches.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

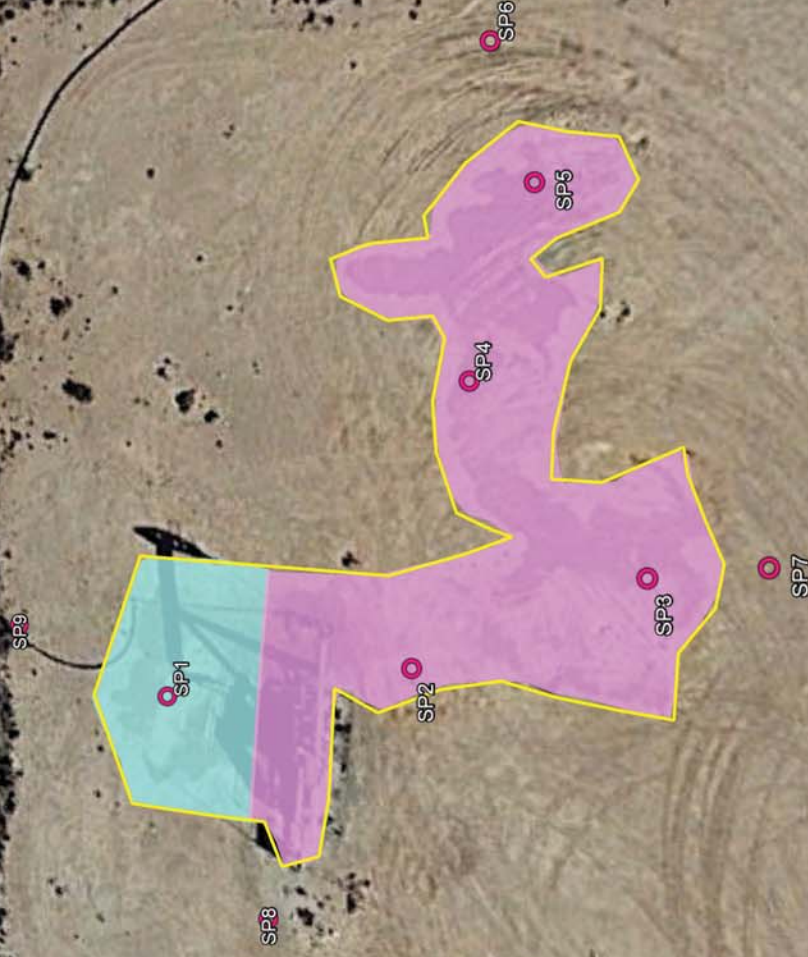
All excavated materials will be disposed of at an NMOCD-approved disposal facility.

Oxy, Goodnight 27 Federal #002H

Leak date: 10/12/2016
Eddy County, NM
AP# 30-015-43809
2RP-3948

Legend

- 2 ft Excavation with liner
- 6 in Excavation
- Sample points, hand auger
- Leak Area



Oxy, Goodnight 27 Federal #002H

Sample points, hand auger

SP1, N 32.27544 W-103.97695

SP2, N 32.27530 W-103.97693

SP3, N 32.27518 W-103.97688

SP4, N 32.27527 W-103.97677

SP5, N 32.27523 W-103.97666

SP6, N 32.27526 W-103.97658

SP7, N 32.27512 W-103.97687

SP8, N 32.27538 W-103.97708

SP9, N 32.27553 W-103.97692



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C 01627		C	ED	1	4	4	28	23S	29E	595649	3570959*	<input type="text"/>	590	170	
C 02707		C	ED			2	28	23S	29E	595535	3571868*	<input type="text"/>	859	40	18 22
C 02797			ED	2	3	22	23S	29E	596540	3572895*	<input type="text"/>	1671	200		

Average Depth to Water: **18 feet**

Minimum Depth: **18 feet**

Maximum Depth: **18 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 596151

Northing (Y): 3571269

Radius: 1700

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

7/17/17 12:45 PM

WATER COLUMN/ AVERAGE DEPTH TO
WATER

Public Land Survey System (PLSS)

☐

Q64:

Q16:

NW

Q4:

SW

Sec:

27

Tws:

23S

Rng:

29E

State Plane Coordinate System - NAD27

☐

X:

0

ft

Y:

0

ft

Zone:

State Plane Coordinate System - NAD83

☐

X:

0

ft

Y:

0

ft

Zone:

Degrees/Minutes/Seconds

☐

Longitude (X):

Degrees:

0

°

Minutes:

0

'

Seconds:

0

"

Latitude (Y):

Degrees:

0

°

Minutes:

0

'

Seconds:

0

"

UTM - NAD27

☐

Easting (X):

0

mtrs

Northing (Y):

0

mtrs

Zone:

SUBMIT

All Conversion Results are displayed as NAD 1983 UTM Zone 13

Easting (X):

596151.0

mtrs

Northing (Y):

3571269.0

mtrs

~~ Please keep screen open to copy UTM values for Reports. ~~

Laboratory Analytical Results Summary
Goodnight 27 Fed #02

Analyte	Method	Sample		SP1 @ Surface		SP1 @ 1'		SP1 @ 2'		SP1 @ 3'		SP1 @ 4'		SP1 @ 5'	
		Date		10/25/16	mg/Kg	10/25/16	mg/Kg	10/25/16	mg/Kg	10/25/16	mg/Kg	10/25/16	mg/Kg	10/25/16	mg/Kg
Benzene	BTEX 8021B			<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B			0.07	0.05	0.199	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B			0.227	0.156	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B			1.06	0.382	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B			1.36	0.588	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B			15200	5760	1570	3320	3320	2120	816					
GRO	TPH 8015M			384	35	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M			41000	2540	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	75.5	

Analyte	Method	Sample		SP2 @ Surface		SP2 @ 1'	
		Date		10/25/16	mg/Kg	10/25/16	mg/Kg
Benzene	BTEX 8021B			<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B			<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B			0.074	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B			<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B			<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B			20800	176	<10.0	<10.0
GRO	TPH 8015M			<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M			2220	10.7		

Analyte	Method	Sample		SP3 @ Surface		SP3 @ 1'	
		Date		10/25/16	mg/Kg	10/25/16	mg/Kg
Benzene	BTEX 8021B			<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B			<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B			0.05	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B			<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B			<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B			14800	272	<10.0	<10.0
GRO	TPH 8015M			<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M			717	<10.0		

Analyte	Method	Sample		SP4 @ Surface		SP4 @ 1'	
		Date		10/25/16	mg/Kg	10/25/16	mg/Kg
Benzene	BTEX 8021B			<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B			<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B			0.062	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B			<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B			<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B			25200	256	<10.0	<10.0
GRO	TPH 8015M			<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M			1190	<10.0		

Analyte	Method	Sample		SP5 @ Surface		SP5 @ 1'	
		Date		10/25/16	mg/Kg	10/25/16	mg/Kg
Benzene	BTEX 8021B			<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B			<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B			0.056	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B			<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B			<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B			17600	288	<10.0	<10.0
GRO	TPH 8015M			<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M			739	<10.0		

Analyte	Method	Sample		SP6 @ Surface		SP6 @ 6'	
		Date		10/25/16	mg/Kg	10/25/16	mg/Kg
Benzene	BTEX 8021B			<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B			<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B			<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B			<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B			<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B			32	176	<10.0	<10.0
GRO	TPH 8015M			<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M			<10.0	<10.0		

Analyte	Method	Sample		SP7 @ 6'	
		Date		10/25/16	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			96	<10.0
GRO	TPH 8015M			<10.0	<10.0
DRO	TPH 8015M			<10.0	<10.0

Analyte	Method	Sample		SP8 @ 6'	
		Date		10/25/16	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			<16.0	<16.0
GRO	TPH 8015M			<10.0	<10.0
DRO	TPH 8015M			<10.0	<10.0

Analyte	Method	Sample		SP9 @ 6'	
		Date		10/25/16	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			176	<10.0
GRO	TPH 8015M			<10.0	<10.0
DRO	TPH 8015M			<10.0	<10.0

November 02, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: GOODNIGHT 27 FED #02

Enclosed are the results of analyses for samples received by the laboratory on 10/27/16 16:00.

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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/27/2016	Sampling Date:	10/25/2016
Reported:	11/02/2016	Sampling Type:	Soil
Project Name:	GOODNIGHT 27 FED #02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ SURFACE (H602416-01)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2016	ND	2.36	118	2.00	1.89	
Toluene*	0.070	0.050	10/31/2016	ND	2.44	122	2.00	2.33	
Ethylbenzene*	0.227	0.050	10/31/2016	ND	2.38	119	2.00	2.83	
Total Xylenes*	1.06	0.150	10/31/2016	ND	7.17	119	6.00	2.57	
Total BTX	1.36	0.300	10/31/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	15200	16.0	10/31/2016	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	384	50.0	10/28/2016	ND	176	88.0	200	1.06		
DRO >C10-C28	41000	50.0	10/28/2016	ND	186	92.8	200	11.9		

Surrogate: 1-Chlorooctane 208 % 35-147

Surrogate: 1-Chlorooctadecane 1490 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/27/2016	Sampling Date:	10/25/2016
Reported:	11/02/2016	Sampling Type:	Soil
Project Name:	GOODNIGHT 27 FED #02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 1' (H602416-02)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2016	ND	2.36	118	2.00	1.89	
Toluene*	0.050	0.050	10/31/2016	ND	2.44	122	2.00	2.33	
Ethylbenzene*	0.156	0.050	10/31/2016	ND	2.38	119	2.00	2.83	
Total Xylenes*	0.382	0.150	10/31/2016	ND	7.17	119	6.00	2.57	
Total BTX	0.588	0.300	10/31/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 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	5760	16.0	10/31/2016	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	35.0	10.0	10/28/2016	ND	176	88.0	200	1.06	
DRO >C10-C28	2540	10.0	10/28/2016	ND	186	92.8	200	11.9	

Surrogate: 1-Chlorooctane 109 % 35-147

Surrogate: 1-Chlorooctadecane 140 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

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Received:	10/27/2016	Sampling Date:	10/25/2016
Reported:	11/02/2016	Sampling Type:	Soil
Project Name:	GOODNIGHT 27 FED #02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ SURFACE (H602416-03)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2016	ND	2.36	118	2.00	1.89	
Toluene*	<0.050	0.050	10/31/2016	ND	2.44	122	2.00	2.33	
Ethylbenzene*	0.074	0.050	10/31/2016	ND	2.38	119	2.00	2.83	
Total Xylenes*	<0.150	0.150	10/31/2016	ND	7.17	119	6.00	2.57	
Total BTX	<0.300	0.300	10/31/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	20800	16.0	10/31/2016	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	10/28/2016	ND	176	88.0	200	1.06	
DRO >C10-C28	2220	10.0	10/28/2016	ND	186	92.8	200	11.9	

Surrogate: 1-Chlorooctane 83.9 % 35-147

Surrogate: 1-Chlorooctadecane 128 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

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Received:	10/27/2016	Sampling Date:	10/25/2016
Reported:	11/02/2016	Sampling Type:	Soil
Project Name:	GOODNIGHT 27 FED #02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 1' (H602416-04)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2016	ND	2.36	118	2.00	1.89	
Toluene*	<0.050	0.050	10/31/2016	ND	2.44	122	2.00	2.33	
Ethylbenzene*	<0.050	0.050	10/31/2016	ND	2.38	119	2.00	2.83	
Total Xylenes*	<0.150	0.150	10/31/2016	ND	7.17	119	6.00	2.57	
Total BTX	<0.300	0.300	10/31/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	176	16.0	10/31/2016	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	10/28/2016	ND	176	88.0	200	1.06	
DRO >C10-C28	10.7	10.0	10/28/2016	ND	186	92.8	200	11.9	

Surrogate: 1-Chlorooctane 94.0 % 35-147

Surrogate: 1-Chlorooctadecane 110 % 28-171

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Received:	10/27/2016	Sampling Date:	10/25/2016
Reported:	11/02/2016	Sampling Type:	Soil
Project Name:	GOODNIGHT 27 FED #02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ SURFACE (H602416-05)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2016	ND	2.38	119	2.00	0.619	
Toluene*	<0.050	0.050	10/31/2016	ND	2.43	122	2.00	0.0870	
Ethylbenzene*	0.050	0.050	10/31/2016	ND	2.35	118	2.00	0.173	
Total Xylenes*	<0.150	0.150	10/31/2016	ND	7.09	118	6.00	0.343	
Total BTX	<0.300	0.300	10/31/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	14800	16.0	10/31/2016	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	10/28/2016	ND	176	88.0	200	1.06	
DRO >C10-C28	717	10.0	10/28/2016	ND	186	92.8	200	11.9	

Surrogate: 1-Chlorooctane 95.5 % 35-147

Surrogate: 1-Chlorooctadecane 116 % 28-171

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:	10/27/2016	Sampling Date:	10/25/2016
Reported:	11/02/2016	Sampling Type:	Soil
Project Name:	GOODNIGHT 27 FED #02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 1' (H602416-06)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2016	ND	2.38	119	2.00	0.619	
Toluene*	<0.050	0.050	10/31/2016	ND	2.43	122	2.00	0.0870	
Ethylbenzene*	<0.050	0.050	10/31/2016	ND	2.35	118	2.00	0.173	
Total Xylenes*	<0.150	0.150	10/31/2016	ND	7.09	118	6.00	0.343	
Total BTX	<0.300	0.300	10/31/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	272	16.0	10/31/2016	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	10/28/2016	ND	176	88.0	200	1.06	
DRO >C10-C28	<10.0	10.0	10/28/2016	ND	186	92.8	200	11.9	

Surrogate: 1-Chlorooctane 103 % 35-147

Surrogate: 1-Chlorooctadecane 111 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/27/2016	Sampling Date:	10/25/2016
Reported:	11/02/2016	Sampling Type:	Soil
Project Name:	GOODNIGHT 27 FED #02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ SURFACE (H602416-07)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2016	ND	2.38	119	2.00	0.619	
Toluene*	<0.050	0.050	10/31/2016	ND	2.43	122	2.00	0.0870	
Ethylbenzene*	0.062	0.050	10/31/2016	ND	2.35	118	2.00	0.173	
Total Xylenes*	<0.150	0.150	10/31/2016	ND	7.09	118	6.00	0.343	
Total BTX	<0.300	0.300	10/31/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	25200	16.0	10/31/2016	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	10/29/2016	ND	176	88.0	200	1.06	
DRO >C10-C28	1190	10.0	10/29/2016	ND	186	92.8	200	11.9	

Surrogate: 1-Chlorooctane 99.9 % 35-147

Surrogate: 1-Chlorooctadecane 165 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/27/2016	Sampling Date:	10/25/2016
Reported:	11/02/2016	Sampling Type:	Soil
Project Name:	GOODNIGHT 27 FED #02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 1' (H602416-08)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2016	ND	2.38	119	2.00	0.619	
Toluene*	<0.050	0.050	10/31/2016	ND	2.43	122	2.00	0.0870	
Ethylbenzene*	<0.050	0.050	10/31/2016	ND	2.35	118	2.00	0.173	
Total Xylenes*	<0.150	0.150	10/31/2016	ND	7.09	118	6.00	0.343	
Total BTX	<0.300	0.300	10/31/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	10/31/2016	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	10/29/2016	ND	176	88.0	200	1.06	
DRO >C10-C28	<10.0	10.0	10/29/2016	ND	186	92.8	200	11.9	

Surrogate: 1-Chlorooctane 76.7 % 35-147

Surrogate: 1-Chlorooctadecane 69.5 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/27/2016	Sampling Date:	10/25/2016
Reported:	11/02/2016	Sampling Type:	Soil
Project Name:	GOODNIGHT 27 FED #02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ SURFACE (H602416-09)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2016	ND	2.38	119	2.00	0.619	
Toluene*	<0.050	0.050	11/01/2016	ND	2.43	122	2.00	0.0870	
Ethylbenzene*	0.056	0.050	11/01/2016	ND	2.35	118	2.00	0.173	
Total Xylenes*	<0.150	0.150	11/01/2016	ND	7.09	118	6.00	0.343	
Total BTEx	<0.300	0.300	11/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	17600	16.0	10/31/2016	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	10/29/2016	ND	176	88.0	200	1.06	
DRO >C10-C28	739	10.0	10/29/2016	ND	186	92.8	200	11.9	

Surrogate: 1-Chlorooctane 96.7 % 35-147

Surrogate: 1-Chlorooctadecane 92.9 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/27/2016	Sampling Date:	10/25/2016
Reported:	11/02/2016	Sampling Type:	Soil
Project Name:	GOODNIGHT 27 FED #02	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 1' (H602416-10)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2016	ND	2.38	119	2.00	0.619	
Toluene*	<0.050	0.050	11/01/2016	ND	2.43	122	2.00	0.0870	
Ethylbenzene*	<0.050	0.050	11/01/2016	ND	2.35	118	2.00	0.173	
Total Xylenes*	<0.150	0.150	11/01/2016	ND	7.09	118	6.00	0.343	
Total BTX	<0.300	0.300	11/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	288	16.0	10/31/2016	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	10/29/2016	ND	176	88.0	200	1.06	
DRO >C10-C28	<10.0	10.0	10/29/2016	ND	186	92.8	200	11.9	

Surrogate: 1-Chlorooctane 92.1 % 35-147

Surrogate: 1-Chlorooctadecane 80.9 % 28-171

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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.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
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



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

101

BILL TO

ANALYSIS REQUEST

101

P.O. #:

Company:

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

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 Owner: OLV

Project Name:

Goodnight 27 Feb 02

Project Location:

Sampler Name:

Roger Hernandez

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H002414

SP10 SPURFACE

2 SP20 SPURFACE

3 SP20 SPURFACE

4 SP30 SPURFACE

5 SP40 SPURFACE

6 SP40 SPURFACE

7 SP40 SPURFACE

8 SP40 SPURFACE

9 SP40 SPURFACE

10 SP40 SPURFACE

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH
BTEX
CL-

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10

November 10, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: GOODNIGHT 27 FED #002H

Enclosed are the results of analyses for samples received by the laboratory on 11/03/16 14:00.

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,



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:	11/03/2016	Sampling Date:	10/28/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	GOODNIGHT 27 FED #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 1 @ 2' (H602481-01)

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	11/09/2016	ND	2.15	108	2.00	0.116	
Toluene*	0.199	0.050	11/09/2016	ND	2.19	109	2.00	0.446	
Ethylbenzene*	<0.050	0.050	11/09/2016	ND	2.10	105	2.00	0.449	
Total Xylenes*	<0.150	0.150	11/09/2016	ND	6.38	106	6.00	0.187	
Total BTX	<0.300	0.300	11/09/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	1570	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 96.3 % 35-147

Surrogate: 1-Chlorooctadecane 98.6 % 28-171

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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:	11/03/2016	Sampling Date:	10/28/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	GOODNIGHT 27 FED #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 1 @ 3' (H602481-02)

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	11/09/2016	ND	2.15	108	2.00	0.116	
Toluene*	<0.050	0.050	11/09/2016	ND	2.19	109	2.00	0.446	
Ethylbenzene*	<0.050	0.050	11/09/2016	ND	2.10	105	2.00	0.449	
Total Xylenes*	<0.150	0.150	11/09/2016	ND	6.38	106	6.00	0.187	
Total BTX	<0.300	0.300	11/09/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	3320	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 84.0 % 35-147

Surrogate: 1-Chlorooctadecane 79.8 % 28-171

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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:	11/03/2016	Sampling Date:	10/28/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	GOODNIGHT 27 FED #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 1 @ 4' (H602481-03)

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	11/09/2016	ND	2.15	108	2.00	0.116	
Toluene*	<0.050	0.050	11/09/2016	ND	2.19	109	2.00	0.446	
Ethylbenzene*	<0.050	0.050	11/09/2016	ND	2.10	105	2.00	0.449	
Total Xylenes*	<0.150	0.150	11/09/2016	ND	6.38	106	6.00	0.187	
Total BTEx	<0.300	0.300	11/09/2016	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	2120	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 86.0 % 35-147

Surrogate: 1-Chlorooctadecane 83.6 % 28-171

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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:	11/03/2016	Sampling Date:	10/28/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	GOODNIGHT 27 FED #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 1 @ 5' (H602481-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2016	ND	2.15	108	2.00	0.116	
Toluene*	<0.050	0.050	11/09/2016	ND	2.19	109	2.00	0.446	
Ethylbenzene*	<0.050	0.050	11/09/2016	ND	2.10	105	2.00	0.449	
Total Xylenes*	<0.150	0.150	11/09/2016	ND	6.38	106	6.00	0.187	
Total BTX	<0.300	0.300	11/09/2016	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	816	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	75.5	10.0	11/08/2016	ND	177	88.6	200	4.03	

Surrogate: 1-Chlorooctane 94.4 % 35-147

Surrogate: 1-Chlorooctadecane 85.8 % 28-171

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Analytical Results For:

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

Received:	11/03/2016	Sampling Date:	10/28/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	GOODNIGHT 27 FED #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 6 @ 6' (H602481-05)

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	11/09/2016	ND	2.15	108	2.00	0.116	
Toluene*	<0.050	0.050	11/09/2016	ND	2.19	109	2.00	0.446	
Ethylbenzene*	<0.050	0.050	11/09/2016	ND	2.10	105	2.00	0.449	
Total Xylenes*	<0.150	0.150	11/09/2016	ND	6.38	106	6.00	0.187	
Total BTX	<0.300	0.300	11/09/2016	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	32.0	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	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 89.9 % 35-147

Surrogate: 1-Chlorooctadecane 83.2 % 28-171

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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:	11/03/2016	Sampling Date:	10/28/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	GOODNIGHT 27 FED #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 7 @ 6' (H602481-06)

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	11/09/2016	ND	2.15	108	2.00	0.116	
Toluene*	<0.050	0.050	11/09/2016	ND	2.19	109	2.00	0.446	
Ethylbenzene*	<0.050	0.050	11/09/2016	ND	2.10	105	2.00	0.449	
Total Xylenes*	<0.150	0.150	11/09/2016	ND	6.38	106	6.00	0.187	
Total BTEx	<0.300	0.300	11/09/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	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	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 86.4 % 35-147

Surrogate: 1-Chlorooctadecane 84.2 % 28-171

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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:	11/03/2016	Sampling Date:	10/28/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	GOODNIGHT 27 FED #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 8 @ 6' (H602481-07)

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	11/09/2016	ND	2.15	108	2.00	0.116	
Toluene*	<0.050	0.050	11/09/2016	ND	2.19	109	2.00	0.446	
Ethylbenzene*	<0.050	0.050	11/09/2016	ND	2.10	105	2.00	0.449	
Total Xylenes*	<0.150	0.150	11/09/2016	ND	6.38	106	6.00	0.187	
Total BTX	<0.300	0.300	11/09/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	<16.0	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	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 83.8 % 35-147

Surrogate: 1-Chlorooctadecane 80.2 % 28-171

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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:	11/03/2016	Sampling Date:	10/28/2016
Reported:	11/10/2016	Sampling Type:	Soil
Project Name:	GOODNIGHT 27 FED #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 9 @ 6' (H602481-08)

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	11/09/2016	ND	2.15	108	2.00	0.116	
Toluene*	<0.050	0.050	11/09/2016	ND	2.19	109	2.00	0.446	
Ethylbenzene*	<0.050	0.050	11/09/2016	ND	2.10	105	2.00	0.449	
Total Xylenes*	<0.150	0.150	11/09/2016	ND	6.38	106	6.00	0.187	
Total BTEx	<0.300	0.300	11/09/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	176	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 94.1 % 35-147

Surrogate: 1-Chlorooctadecane 84.6 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

108

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: Goodnight 27 Federal #002H

Project Location: Eddy County, NM

Sampler Name: Roger Hernandez

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Oxy

Attn: Casey Summers

Address:

City:

State: Zip:

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

1102481

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	DATE	TIME
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
1	SP1 @ 2'	6	1	✓						10/28/16	3:20 PM	✓	✓
2	SP1 @ 3'	6	1	✓						10/28/16	3:30 PM	✓	✓
3	SP1 @ 4'	6	1	✓						10/28/16	3:50 PM	✓	✓
4	SP1 @ 5'	6	1	✓						10/28/16	4:00 PM	✓	✓
5	SP6 @ 6'	6	1	✓						10/28/16	1:00 PM	✓	✓
6	SP7 @ 6'	6	1	✓						10/28/16	1:10 PM	✓	✓
7	SP8 @ 6'	6	1	✓						10/28/16	2:00 PM	✓	✓
8	SP9 @ 6'	6	1	✓						10/28/16	2:30 PM	✓	✓

BTEX
CI
TPH

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Relinquished By:

Date: 10/28/16

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

REMARKS:

Relinquished By:

Date: 10/28/16

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

REMARKS:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other: #75 - 7.80

Sample Condition
Cool ☒ Intact ☒
Yes ☒ No ☐

CHECKED BY: (initials)

† 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	Goodnight 27 Federal #002H	Facility Type	Well
Surface Owner	BLM	Mineral Owner	API No. 30-015-43809

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	27	23S	29E					Eddy County, NM

Latitude N 32.27536° Longitude W 103.97690°

NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	5 bbls oil, 5 bbls produced water	Volume Recovered	10 bbls
Source of Release	Faulty valve on the well head	Date and Hour of Occurrence	10/12/2016	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?	Mike Bratcher, Heather Patterson- NMOCD; Shelly Tucker- BLM		
By Whom?	Kathy@ BBC International, Inc.	Date and Hour	10/13/2016 @ 11:25 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 faulty valve on the well head caused 5 bbls of oil and 5 bbls of produced water to leak onto the ground. A vacuum truck recovered 10 bbls of fluids and the valve was replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 125'x 100' 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:	<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: <u>10-19-16</u>	Phone: (575) 513-8289		

* Attach Additional Sheets If Necessary