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E-MAIL: cbrunson@bbcinternational.com

DELINEATION WORKPLAN

OXY – YVONNE 21 FEDERAL 1 BATTERY (Leak Date: 10/25/17)

RP # 2RP-4475
API # 30-015-28850

This delineation workplan and remediation proposal addresses the release associated with RP # 2RP-4475.

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, SP2, SP5, and SP6 (pink shade on diagram) will require zero remediation activities. The leak area near SP3 (green shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP4 (blue shade on diagram) will be excavated to a depth of 3 feet.

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.

Legend

-  2 ft Excavation
-  3 ft Excavation
-  Cardinal sample points
-  Leak Area (yellow)
-  No remediation activities
-  Sample points



90 ft

Oxy, Yvonne 21 Federal Battery

Leak date: 10/25/2017
 Eddy County, NM
 API# 30-015-28850
 ZRP-4475



Google Earth

©2017 Google

Oxy, Yvonne 21 Federal 1 Battery

Sample points, hand auger

SP1, N 32.20386 W-103.98856

SP2, N 32.20379 W-103.98846

SP3, N 32.20371 W-103.98836

SP4, N 32.20359 W-103.98845

SP5, N 32.20350 W-103.98865

SP6, N 32.20342 W-103.98885

NORTH, N 32.20382 W-103.98845

SOUTH, N 32.20340 W-103.98889

EAST, N 32.20368 W-103.98833

WEST, N 32.20389 W-103.98862

Oxy, Yvonne 21 Federal 1 Battery
U/L G, Section 21, T24S, R29E
Groundwater: 75'-100'





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 17	Tws 24S	Rng 29E	X 594332	Y 3564282*	Distance	DepthWell	DepthWater	Water Column
C_00463		C	ED	4	4	4	17	24S	29E	594332	3564282*	1315	260	4	256

Average Depth to Water: **4 feet**
 Minimum Depth: **4 feet**
 Maximum Depth: **4 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 595447

Northing (Y): 3563584

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.

10/31/17 10:48 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Public Land Survey System (PLSS)

Q64: Q16: Q4: Sec: Tws: Rng:

State Plane Coordinate System - NAD27

X: ft Y: ft Zone:

State Plane Coordinate System - NAD83

X: ft Y: ft Zone:

Degrees/Minutes/Seconds

Longitude (X): Degrees: ° Minutes: ' Seconds: ''
Latitude (Y): Degrees: ° Minutes: ' Seconds: ''

UTM - NAD27

Easting (X): mtrs Northing (Y): mtrs Zone:

SUBMIT

All Conversion Results are displayed as **NAD 1983 UTM Zone 13**

Easting (X): mtrs Northing (Y): mtrs

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

Laboratory Analytical Results Summary
Yvonne 21 Federal 1 Battery

Analyte	Method	Sample ID	Date	SP1 @ SURFACE	SP1 @ 2'
				10/31/17	10/31/17
				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	SM4500C1-B			64	80
GRO	TPH 8015M			<10.0	<10.0
DRO	TPH 8015M			<10.0	<10.0
EXT DRO	TPH 8015M			<10.0	<10.0

Analyte	Method	Sample ID	Date	SP2 @ SURFACE	SP2 @ 2'
				10/31/17	10/31/17
				mg/kg	mg/kg
Chloride	SM4500C1-B			128	112

Analyte	Method	Sample ID	Date	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 2.5'
				10/31/17	10/31/17	10/31/17	11/1/17
				mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B			<0.050	n/a	<0.050	n/a
Toluene	BTEX 8021B			<0.050	n/a	<0.050	n/a
Ethylbenzene	BTEX 8021B			<0.050	n/a	<0.050	n/a
Total Xylenes	BTEX 8021B			<0.150	n/a	<0.150	n/a
Total BTEX	BTEX 8021B			<0.300	n/a	<0.300	n/a
Chloride	SM4500C1-B			224	448	912	<16.0
GRO	TPH 8015M			<10.0	n/a	<10.0	n/a
DRO	TPH 8015M			<10.0	n/a	<10.0	n/a
EXT DRO	TPH 8015M			<10.0	n/a	<10.0	n/a

CARDINAL POINTS	Sample ID	Date	NORTH @ SURFACE	EAST @ SURFACE	WEST @ SURFACE	SOUTH @ SURFACE
			11/1/17	11/1/17	11/1/17	11/1/17
Analyte			mg/kg	mg/kg	mg/kg	mg/kg
Chloride	SM4500C1-B		32	32	160	<16.0

Analyte	Method	Sample ID	Date	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'	SP4 @ 5'
				11/1/17	11/1/17	11/1/17	11/1/17	11/1/17	11/1/17
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B			<0.050	n/a	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B			<0.050	n/a	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B			<0.050	n/a	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B			<0.150	n/a	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B			<0.300	n/a	<0.300	n/a	n/a	n/a
Chloride	SM4500C1-B			496	1170	4320	4800	668	80
GRO	TPH 8015M			<10.0	n/a	<10.0	n/a	n/a	n/a
DRO	TPH 8015M			<10.0	n/a	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M			<10.0	n/a	<10.0	n/a	n/a	n/a

Analyte	Method	Sample ID	Date	SP5 @ SURFACE	SP5 @ 2'
				11/1/17	11/1/17
				mg/kg	mg/kg
Chloride	SM4500C1-B			160	96

Analyte	Method	Sample ID	Date	SP6 @ SURFACE	SP6 @ 2'
				11/1/17	11/1/17
				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	SM4500C1-B			176	64
GRO	TPH 8015M			<10.0	<10.0
DRO	TPH 8015M			<10.0	<10.0
EXT DRO	TPH 8015M			<10.0	<10.0



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November 08, 2017

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

RE: YVONNE 21 FEDERAL 1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/02/17 12:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/02/2017	Sampling Date:	10/31/2017
Reported:	11/08/2017	Sampling Type:	Soil
Project Name:	YVONNE 21 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO NM		

Sample ID: SP1 @ SURFACE (H703019-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2017	ND	1.74	86.8	2.00	0.947	
Toluene*	<0.050	0.050	11/07/2017	ND	1.75	87.3	2.00	2.15	
Ethylbenzene*	<0.050	0.050	11/07/2017	ND	1.72	85.8	2.00	1.61	
Total Xylenes*	<0.150	0.150	11/07/2017	ND	5.45	90.9	6.00	0.914	
Total BTEX	<0.300	0.300	11/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/03/2017	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	11/06/2017	ND	192	96.0	200	3.03	
DRO >C10-C28	<10.0	10.0	11/06/2017	ND	207	103	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	11/06/2017	ND					

Surrogate: 1-Chlorooctane 74.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 82.5 % 34.7-157

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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:	11/02/2017	Sampling Date:	10/31/2017
Reported:	11/08/2017	Sampling Type:	Soil
Project Name:	YVONNE 21 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO NM		

Sample ID: SP1 @ 2' (H703019-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2017	ND	1.74	86.8	2.00	0.947	
Toluene*	<0.050	0.050	11/07/2017	ND	1.75	87.3	2.00	2.15	
Ethylbenzene*	<0.050	0.050	11/07/2017	ND	1.72	85.8	2.00	1.61	
Total Xylenes*	<0.150	0.150	11/07/2017	ND	5.45	90.9	6.00	0.914	
Total BTEX	<0.300	0.300	11/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/03/2017	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	11/06/2017	ND	192	96.0	200	3.03	
DRO >C10-C28	<10.0	10.0	11/06/2017	ND	207	103	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	11/06/2017	ND					

Surrogate: 1-Chlorooctane 77.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 80.3 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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 Fax To: (575) 397-0397

Received:	11/02/2017	Sampling Date:	10/31/2017
Reported:	11/08/2017	Sampling Type:	Soil
Project Name:	YVONNE 21 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO NM		

Sample ID: SP2 @ SURFACE (H703019-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/03/2017	ND	432	108	400	0.00	

Sample ID: SP2 @ 2' (H703019-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/03/2017	ND	432	108	400	0.00	

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Received:	11/02/2017	Sampling Date:	10/31/2017
Reported:	11/08/2017	Sampling Type:	Soil
Project Name:	YVONNE 21 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO NM		

Sample ID: SP3 @ SURFACE (H703019-05)

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	11/07/2017	ND	1.74	86.8	2.00	0.947	
Toluene*	<0.050	0.050	11/07/2017	ND	1.75	87.3	2.00	2.15	
Ethylbenzene*	<0.050	0.050	11/07/2017	ND	1.72	85.8	2.00	1.61	
Total Xylenes*	<0.150	0.150	11/07/2017	ND	5.45	90.9	6.00	0.914	
Total BTEX	<0.300	0.300	11/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/03/2017	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	11/06/2017	ND	192	96.0	200	3.03	
DRO >C10-C28	<10.0	10.0	11/06/2017	ND	207	103	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	11/06/2017	ND					

Surrogate: 1-Chlorooctane 87.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.0 % 34.7-157

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Fax To: (575) 397-0397

Received:	11/02/2017	Sampling Date:	10/31/2017
Reported:	11/08/2017	Sampling Type:	Soil
Project Name:	YVONNE 21 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO NM		

Sample ID: SP3 @ 1' (H703019-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	11/03/2017	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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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:	11/02/2017	Sampling Date:	10/31/2017
Reported:	11/08/2017	Sampling Type:	Soil
Project Name:	YVONNE 21 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO NM		

Sample ID: SP3 @ 2' (H703019-07)

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	11/07/2017	ND	1.74	86.8	2.00	0.947	
Toluene*	<0.050	0.050	11/07/2017	ND	1.75	87.3	2.00	2.15	
Ethylbenzene*	<0.050	0.050	11/07/2017	ND	1.72	85.8	2.00	1.61	
Total Xylenes*	<0.150	0.150	11/07/2017	ND	5.45	90.9	6.00	0.914	
Total BTEX	<0.300	0.300	11/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	11/03/2017	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	11/06/2017	ND	192	96.0	200	3.03	
DRO >C10-C28	<10.0	10.0	11/06/2017	ND	207	103	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	11/06/2017	ND					

Surrogate: 1-Chlorooctane 70.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 77.7 % 34.7-157

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

Analytical Results For:

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

Received:	11/02/2017	Sampling Date:	11/01/2017
Reported:	11/08/2017	Sampling Type:	Soil
Project Name:	YVONNE 21 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO NM		

Sample ID: SP3 @ 2.5' (H703019-08)

Chloride, SM4500Cl-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	11/03/2017	ND	432	108	400	0.00	

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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:	11/02/2017	Sampling Date:	11/01/2017
Reported:	11/08/2017	Sampling Type:	Soil
Project Name:	YVONNE 21 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO NM		

Sample ID: SP4 @ SURFACE (H703019-09)

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	11/07/2017	ND	1.74	86.8	2.00	0.947	
Toluene*	<0.050	0.050	11/07/2017	ND	1.75	87.3	2.00	2.15	
Ethylbenzene*	<0.050	0.050	11/07/2017	ND	1.72	85.8	2.00	1.61	
Total Xylenes*	<0.150	0.150	11/07/2017	ND	5.45	90.9	6.00	0.914	
Total BTEX	<0.300	0.300	11/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	11/03/2017	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	11/06/2017	ND	192	96.0	200	3.03	
DRO >C10-C28	<10.0	10.0	11/06/2017	ND	207	103	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	11/06/2017	ND					

Surrogate: 1-Chlorooctane 78.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 85.7 % 34.7-157

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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:	11/02/2017	Sampling Date:	11/01/2017
Reported:	11/08/2017	Sampling Type:	Soil
Project Name:	YVONNE 21 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO NM		

Sample ID: SP4 @ 1' (H703019-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	11/03/2017	ND	432	108	400	3.64	

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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:	11/02/2017	Sampling Date:	11/01/2017
Reported:	11/08/2017	Sampling Type:	Soil
Project Name:	YVONNE 21 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO NM		

Sample ID: SP4 @ 2' (H703019-11)

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	11/07/2017	ND	1.74	86.8	2.00	0.947	
Toluene*	<0.050	0.050	11/07/2017	ND	1.75	87.3	2.00	2.15	
Ethylbenzene*	<0.050	0.050	11/07/2017	ND	1.72	85.8	2.00	1.61	
Total Xylenes*	<0.150	0.150	11/07/2017	ND	5.45	90.9	6.00	0.914	
Total BTEX	<0.300	0.300	11/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	11/03/2017	ND	432	108	400	3.64	

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	11/06/2017	ND	192	96.0	200	3.03	
DRO >C10-C28	<10.0	10.0	11/06/2017	ND	207	103	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	11/06/2017	ND					

Surrogate: 1-Chlorooctane 78.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 80.7 % 34.7-157

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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:	11/02/2017	Sampling Date:	11/01/2017
Reported:	11/08/2017	Sampling Type:	Soil
Project Name:	YVONNE 21 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO NM		

Sample ID: SP4 @ 3' (H703019-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	11/03/2017	ND	432	108	400	3.64	

Sample ID: SP4 @ 4' (H703019-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	11/03/2017	ND	432	108	400	3.64	

Sample ID: SP4 @ 5' (H703019-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/03/2017	ND	432	108	400	3.64	

Sample ID: SP5 @ SURFACE (H703019-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/03/2017	ND	432	108	400	3.64	

Sample ID: SP5 @ 2' (H703019-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/03/2017	ND	432	108	400	3.64	

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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:	11/02/2017	Sampling Date:	11/01/2017
Reported:	11/08/2017	Sampling Type:	Soil
Project Name:	YVONNE 21 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO NM		

Sample ID: SP6 @ SURFACE (H703019-17)

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	11/07/2017	ND	1.74	86.8	2.00	0.947	
Toluene*	<0.050	0.050	11/07/2017	ND	1.75	87.3	2.00	2.15	
Ethylbenzene*	<0.050	0.050	11/07/2017	ND	1.72	85.8	2.00	1.61	
Total Xylenes*	<0.150	0.150	11/07/2017	ND	5.45	90.9	6.00	0.914	
Total BTEX	<0.300	0.300	11/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 72-148

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	11/03/2017	ND	432	108	400	3.64	

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	11/06/2017	ND	192	96.0	200	3.03	
DRO >C10-C28	<10.0	10.0	11/06/2017	ND	207	103	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	11/06/2017	ND					

Surrogate: 1-Chlorooctane 64.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 70.6 % 34.7-157

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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:	11/02/2017	Sampling Date:	11/01/2017
Reported:	11/08/2017	Sampling Type:	Soil
Project Name:	YVONNE 21 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO NM		

Sample ID: SP6 @ 2' (H703019-18)

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	11/07/2017	ND	1.74	86.8	2.00	0.947	
Toluene*	<0.050	0.050	11/07/2017	ND	1.75	87.3	2.00	2.15	
Ethylbenzene*	<0.050	0.050	11/07/2017	ND	1.72	85.8	2.00	1.61	
Total Xylenes*	<0.150	0.150	11/07/2017	ND	5.45	90.9	6.00	0.914	
Total BTEX	<0.300	0.300	11/07/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/03/2017	ND	432	108	400	3.64	

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	11/06/2017	ND	194	97.0	200	11.2	
DRO >C10-C28	<10.0	10.0	11/06/2017	ND	225	113	200	4.17	
EXT DRO >C28-C36	<10.0	10.0	11/06/2017	ND					

Surrogate: 1-Chlorooctane 78.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 88.1 % 34.7-157

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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:	11/02/2017	Sampling Date:	11/01/2017
Reported:	11/08/2017	Sampling Type:	Soil
Project Name:	YVONNE 21 FEDERAL 1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY- EDDY CO NM		

Sample ID: NORTH @ SURFACE (H703019-19)

Chloride, SM4500Cl-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	11/03/2017	ND	432	108	400	3.64	

Sample ID: EAST @ SURFACE (H703019-20)

Chloride, SM4500Cl-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	11/03/2017	ND	432	108	400	3.64	

Sample ID: WEST @ SURFACE (H703019-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/03/2017	ND	432	108	400	3.64	

Sample ID: SOUTH @ SURFACE (H703019-22)

Chloride, SM4500Cl-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	11/03/2017	ND	432	108	400	3.64	

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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc. P.O. #:
 Project Manager: Cliff Brunson Company: *Oxy*
 Address: P.O. Box 805 State: NM zip: 88241 Attn: *Wade D. Frick*
 City: Hobbs State: NM zip: 88241 Address:
 Phone #: 575-397-6388 Fax #: 575-397-0397 Project Owner: *Oxy*
 Project #: Project Location: Yvonne 21 Federal 1 Battery State: Zip:
 Project Name: Eddy County, NM Phone #:
 Sampler Name: Jeff Ornelas Fax #:
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	DATE	TIME	CI	BTEX	T+H EXT
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						
H703019	SP1 @ SURFACE	G	1								10/31/17	11:11 AM	✓	✓	✓
	SP1 @ 2'	G	1								10/31/17	11:33 AM	✓	✓	✓
	SP2 @ SURFACE	G	1								10/31/17	11:58 AM	✓	✓	✓
	SP2 @ 2'	G	1								10/31/17	12:53 PM	✓	✓	✓
	SP3 @ SURFACE	G	1								10/31/17	1:11 PM	✓	✓	✓
	SP3 @ 1'	G	1								10/31/17	1:45 PM	✓	✓	✓
	SP3 @ 2'	G	1								10/31/17	2:22 PM	✓	✓	✓
	SP3 @ 2.5'	G	1								11/1/17	9:01 AM	✓	✓	✓
	SP4 @ SURFACE	G	1								11/1/17	9:19 AM	✓	✓	✓
	SP4 @ 1'	G	1								11/1/17	9:30 AM	✓	✓	✓

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Relinquished By: *[Signature]* Date: *11/17* Received By: *[Signature]* Phone Result: Yes No Add'l Phone #:
 Date: *11-2-17* Time: *12:50* Received By: *[Signature]* Fax Result: Yes No Add'l Fax #:
 Delivered By: (Circle One) *0.66* Sample Condition Cool Intact Yes No Yes No CHECKED BY: *[Signature]* (Initials) *TP. #15*
 Sampler - UPS - Bus - Other: *Unstated 0.85%* No No

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

Some lead Spore in some



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc. P.O. #:
 Project Manager: Cliff Brunson Company: *OKY*
 Address: P.O. Box 805 State: NM Zip: 88241 Attn: *Wade D. Hick*
 City: Hobbs Phone #: 575-397-6388 Fax #: 575-397-0397 Address:
 Phone #: 575-397-6388 Fax #: 575-397-0397 Project Owner: Oxy City:
 Project #: Project Location: Yvonne 21 Federal 1 Battery State: Zip:
 Project Name: Eddy County, NM Phone #:
 Sampler Name: Jeff Ornelas Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV		DATE	TIME	CI	BTEX	TPH EXT
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL					
<i>H703019</i>																
<i>11</i>	<i>SP4 @ 2'</i>		<i>6</i>			<input checked="" type="checkbox"/>						<i>11/1/17</i>	<i>9:58 AM</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>12</i>	<i>SP4 @ 3'</i>		<i>6</i>			<input checked="" type="checkbox"/>						<i>11/1/17</i>	<i>10:20 AM</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>13</i>	<i>SP4 @ 4'</i>		<i>6</i>			<input checked="" type="checkbox"/>						<i>11/1/17</i>	<i>10:49 AM</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>14</i>	<i>SP4 @ 5'</i>		<i>6</i>			<input checked="" type="checkbox"/>						<i>11/1/17</i>	<i>11:30 AM</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>15</i>	<i>SP5 @ SURFACE</i>		<i>6</i>			<input checked="" type="checkbox"/>						<i>11/1/17</i>	<i>12:30 PM</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>16</i>	<i>SP5 @ 2'</i>		<i>6</i>			<input checked="" type="checkbox"/>						<i>11/1/17</i>	<i>1:11 PM</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>17</i>	<i>SP6 @ SURFACE</i>		<i>6</i>			<input checked="" type="checkbox"/>						<i>11/1/17</i>	<i>1:33 PM</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>18</i>	<i>SP6 @ 2'</i>		<i>6</i>			<input checked="" type="checkbox"/>						<i>11/1/17</i>	<i>2:17 PM</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>19</i>	<i>NORTH @ SURFACE</i>		<i>6</i>			<input checked="" type="checkbox"/>						<i>11/1/17</i>	<i>2:15 PM</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>20</i>	<i>EAST @ SURFACE</i>		<i>6</i>			<input checked="" type="checkbox"/>						<i>11/1/17</i>	<i>2:22 PM</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether caused in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *Jeff Ornelas* Date: *11/1/17* Time: *5:30pm*
 Received By: *Yvonne 21 Federal*
 Delivered By: (Circle One) *O.C.C.*
 Sampler - UPS - Bus - Other: *Consented U.S.C.* Sample Condition: Cool Intact
 CHECKED BY: (Initials) *YO.H.15*
 Remarks: *Some hand space in some*

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

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 Owner: Oxy
 Project Name: Yvonne 21 Federal 1 Battery
 Project Location: Eddy County, NM
 Sampler Name: Jeff Ornelas
 P.O. #: Company: Oxy
 Attn: Wade B. Hicker
 Address: City: State: Zip: Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	DATE	TIME	SAMPLING
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
H7D3019	21 WEST @ SURFACE	G	1			✓				✓	11/1/17	2:33 PM	✓
	22 SOUTH @ SURFACE	G	1			✓				✓	11/1/17	2:45 PM	✓
KEEP 11/1/17													

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 the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *Jeff Ornelas* Date: 11/1/17 Time: 3:30 PM
 Received By: *Wade B. Hicker*
 Delivered By: (Circle One) *Other* Sample Condition: Cool Yes No Intact Yes No
 Checked By: *W. Hicker*
 Remarks: *Some head space in some*

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

NM OIL CONSERVATION

ARTESIA DISTRICT

State of New Mexico
Energy Minerals and Natural Resources

NOV 08 2017

Form C-141
Revised April 3, 2017

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

Submitted Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

DAB1731252071

Name of Company	OXY USA INC <i>116696</i>	Contact	WADE DITTRICH
Address	PO BOX 4294; HOUSTON, TX 77210	Telephone No.	575-390-2828
Facility Name	YVONNE 21 FEDERAL 1 BATTERY	Facility Type	BATTERY
Surface Owner	BLM	Mineral Owner	BLM
		API No.	30-015-28850

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	22	24S	29E	1800	NORTH	2310	WEST	EDDY

Latitude_32.2053604_ Longitude_-103.9905319_ NAD83

NATURE OF RELEASE

Type of Release	OIL & PRODUCED WATER	Volume of Release	4 BBLs OIL 65 BBLs PRODUCED WATER	Volume Recovered	TBD
Source of Release	POLY LINE STRUCK BY CONTRACTOR	Date and Hour of Occurrence	10/25/2017	Date and Hour of Discovery	10/25/2017
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	MIKE BRATCHER-NMOCD; CRYSTAL WEAVER-NMOCD; SHELLY TUCKER-BLM		
By Whom?	WADE DITTRICH	Date and Hour	10-26-2017 @ 6:54AM		
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.*

Poly line struck by contractor and caused a released. Repairs will be made and then returned to service.

Describe Area Affected and Cleanup Action Taken.*

Affected areas are 2x40 and 20x160x4 (measurements are subject to change with GPS tracking)-Leak is 1500 ft Southeast of Battery. Remediation will be completed in accordance with a remediation plan approved by the 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: <i>WaDe Dittrich</i>	OIL CONSERVATION DIVISION	
Printed Name: WADE DITTRICH	Signed By <i>Mike Bratcher</i> Approved by Environmental Specialist:	
Title: ENVIROMENTAL COORDINATOR	Approval Date: 11/8/17	Expiration Date: NIA
E-mail Address: wade.dittrich@oxy.com	Conditions of Approval: <i>See attached</i>	Attached <input type="checkbox"/> <i>APP-4475</i>
Date: 11-8-17 Phone: 575-390-2828		

* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 11/8/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4415 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 12/8/2017. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Monday, March 5, 2018 10:55 AM
To: 'Cliff Brunson'; Shelly Tucker
Cc: Weaver, Crystal, EMNRD; Wade Dittrich; Jennifer_Smith@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: OXY Yvonne 21 Federal 1 Battery (2RP-4475) - Delineation Workplan

RE: OXY USA * Yvonne 21 Fed 1 Btry * **2RP-4475** * DOR: 10/25/17

Cliff,

Your proposal for remediation of the above referenced release is approved. Federal sites will require like approval from BLM.

Mike Bratcher
NMOCD District 2
811 South First Street
Artesia, NM 88210
575-748-1283 Ext 108

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

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Tuesday, November 28, 2017 3:08 PM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Shelly Tucker <stucker@blm.gov>
Cc: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Wade Dittrich <Wade_Dittrich@oxy.com>; Jennifer_Smith@oxy.com; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>
Subject: OXY Yvonne 21 Federal 1 Battery (2RP-4475) - Delineation Workplan

Mike and Shelly,

Please find the attached Delineation Workplan and remediation proposal for the OXY Yvonne 21 Federal 1 Battery (2RP-4475). OXY is requesting that you review this plan and is looking forward to both the OCD's and BLM's approval.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805

Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com



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From: [Tucker, Shelly](#)
To: [Katherine Purvis](#)
Cc: [Bratcher, Mike, EMNRD](#); [Pruett, Maria, EMNRD](#); [Wade Dittrich](#); [Rebecca Moore](#); [Cliff Brunson](#); [Ken Swinney](#); [Jennifer Gilkey](#)
Subject: [EXT] Re: [EXTERNAL] Closure Report, Yvonne 21 Federal 1 Battery
Date: Tuesday, November 20, 2018 1:25:46 PM

BLM accepts your request for closure.

If you have any questions or concerns, please do not hesitate to contact me.

Please be aware if you need to meet with me in person, I am currently working out of the Hobbs Field Office on a temporary basis. I will be in and out of both field offices. I am unsure at this time how long I will be based out of Hobbs. I can still be contacted at any of the numbers listed below.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
O&G Spill/Release Coordinator

575.234.5905 - Direct
575.361.0084 - Cellular
575.234.6235 - Emergency Spill Number

stucker@blm.gov

Bureau of Land Management
620 E. Greene St
Carlsbad, NM 88220

The **BLM acceptance/approval does not** relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. **In such an event a site does not achieve successful restoration, or future issues with contaminants are encountered, the operator will be asked to address these issues until they are fully mitigated and the location is successfully reclaimed.** In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

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NOTE: LPC Timing Stipulations - from March 1st through June 15th. Please plan remedial activities accordingly. Check for African Rue...treat (before it gets out of control).

On Wed, Nov 7, 2018 at 10:24 AM Kathy Purvis <kathy@bbcinternational.com> wrote:

Attached is the closure report for a leak that occurred at the Yvonne 21 Federal 1 Battery on 10/25/17 in Eddy County, NM. Receipt notification and closure approval via email is greatly appreciated. The RP number for this event is 2RP-4475

Kathy Purvis

BBC International, Inc.

1324 W. Marland Blvd.

Hobbs, NM 88240

Business: (575) 397-6388

Cell: (575) 441-8619

kathy@bbcinternational.com

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 385218

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 385218
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Historical document upload,	9/19/2024