

OXY USA, Inc.
North Hobbs Unit North Injection Battery
Delineation Report and Work Plan

Section 33, T18S, R38E
Lea County, New Mexico

December 19, 2014



Prepared for:

OXY USA, Inc.
1017 W Stanolind Road
Hobbs, New Mexico 88240

By:

Safety & Environmental Solutions, Inc.
703 East Clinton Street
Hobbs, New Mexico 88240
(575) 397-0510

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I. Company Contacts

Representative	Company	Telephone	E-mail
Raymond Aguilar	OXY USA, INC.	575-390-6312	Raymond_a@oxy.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by OXY USA, INC to perform site assessment of a release area at the North Hobbs Unit North Injection Battery located in Section 33 of Township 18 South, Range 38 East, Lea County, New Mexico.

According to the C-141 the cause of release was equipment malfunction, the PLC failed causing fluid to go out inlet separator and flare.

III. Surface and Ground Water

The nearest groundwater of record is approximately 1.0 mile East of the site. The New Mexico Office of State Engineer record is in Section 4 Range 38 East and Township 18 South. The reported depth was 56 feet below ground surface (BGS).

IV. Characterization

The target cleanup levels are determined using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOC (August 13, 1993). Based on the ranking criteria presented below, the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 1,000 ppm Total Petroleum Hydrocarbons (TPH).

Depth to Ground Water:			
(Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	20 points	
	50 feet to 99 feet	10 points	X
	>100 feet	0 points	
Wellhead Protection Area:			
(Less than 200 feet from a private domestic water source; or less than 1000 feet from all other water sources)	Yes	20 points	
	No	0 points	X
Distance to Surface Water:			
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	20 points	
	200 feet to 1000 feet	10 points	
	>1000 feet	0 points	X
RANKING SCORE (TOTAL POINTS)			10

V. Work Performed

On December 17, 2014, Safety & Environmental Solutions, Inc. was onsite to determine vertical extent of contamination. Samples SP1 – SP9 were taken at Surface. All samples were properly packaged, preserved and transported to the Laboratory, Hobbs New Mexico and analyzed for Benzene, Toluene, Ethylbenzene, Xylenes, Total BTEX and

Chloride (Cl⁻) (Method SM4500Cl-B). The results of the analysis are presented in the table below:

Sample Date 12/18/2014	Sample ID	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX
Depth	Method					
SP1 at Surface	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
SP2 at Surface	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
SP3 at Surface	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
SP4 at Surface	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
SP5 at Surface	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
SP6 at Surface	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
SP7 at Surface	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
SP8 at Surface	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300
SP9 at Surface	BTEX 8021B	<0.050	<0.050	<0.050	<0.150	<0.300

Sample Date 05/03/2014	Sample ID	Chloride (Cl)	Sample ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)
Depth	Method		Method		
SP1 at Surface	SM4500Cl-B	176	TPH 8015M	<10.0	10.2
SP2 at Surface	SM4500Cl-B	112	TPH 8015M	<10.0	<10.0
SP3 at Surface	SM4500Cl-B	400	TPH 8015M	<10.0	168
SP4 at Surface	SM4500Cl-B	464	TPH 8015M	<10.0	65.9
SP5 at Surface	SM4500Cl-B	96	TPH 8015M	<10.0	<10.0
SP6 at Surface	SM4500Cl-B	<16.0	TPH 8015M	<10.0	<10.0
SP7 at Surface	SM4500Cl-B	<16.0	TPH 8015M	<10.0	<10.0
SP8 at Surface	SM4500Cl-B	<16.0	TPH 8015M	<10.0	<10.0
SP9 at Surface	SM4500Cl-B	32	TPH 8015M	<10.0	<10.0

VI. Action Plan

Due to the results listed above the following action plan is proposed:

1. Excavate remove all contaminated soil transport to an approved NMOCD facility for disposal.
2. The excavated area will be backfilled with native soil and returned to natural grade.
3. No further action is necessary.

VII. Figures & Appendices

Figure 1 – Vicinity Map
Figure 2 – Site Plan
Figure 3 – NMOCD Trend Map
Appendix A – Analytical Results
Appendix B – C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: OXY	Contact: Raymond Aguilar
Address: 1017 W Stanolind Road	Telephone No. 575-390-6312
Facility Name: North Hobbs Unit North Injection Battery	Facility Type: Oil and Gas Production

Surface Owner: State of New Mexico	Mineral Owner:	Lease No.:
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	33	18S	38E					

Latitude: 32.70653889 Longitude: -103.16163330

NATURE OF RELEASE

Type of Release: Produced Water and Oil	Volume of Release: 5 BBLS Oil 37 BBLS Water	Volume Recovered: 15 BBLS Water
Source of Release: Equipment Malfunction PLC failed	Date and Hour of Occurrence: 10/22/2014 5:30 PM	Date and Hour of Discovery: 10/22/2014 5:30 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Bill Sonomaker	
By Whom? Tony Aguilar 575-397-8251	Date and Hour: 10/22/2014 6:08 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Cause of leak Equipment Malfunction, The PLC failed causing fluid to go out inlet separator and to flare.

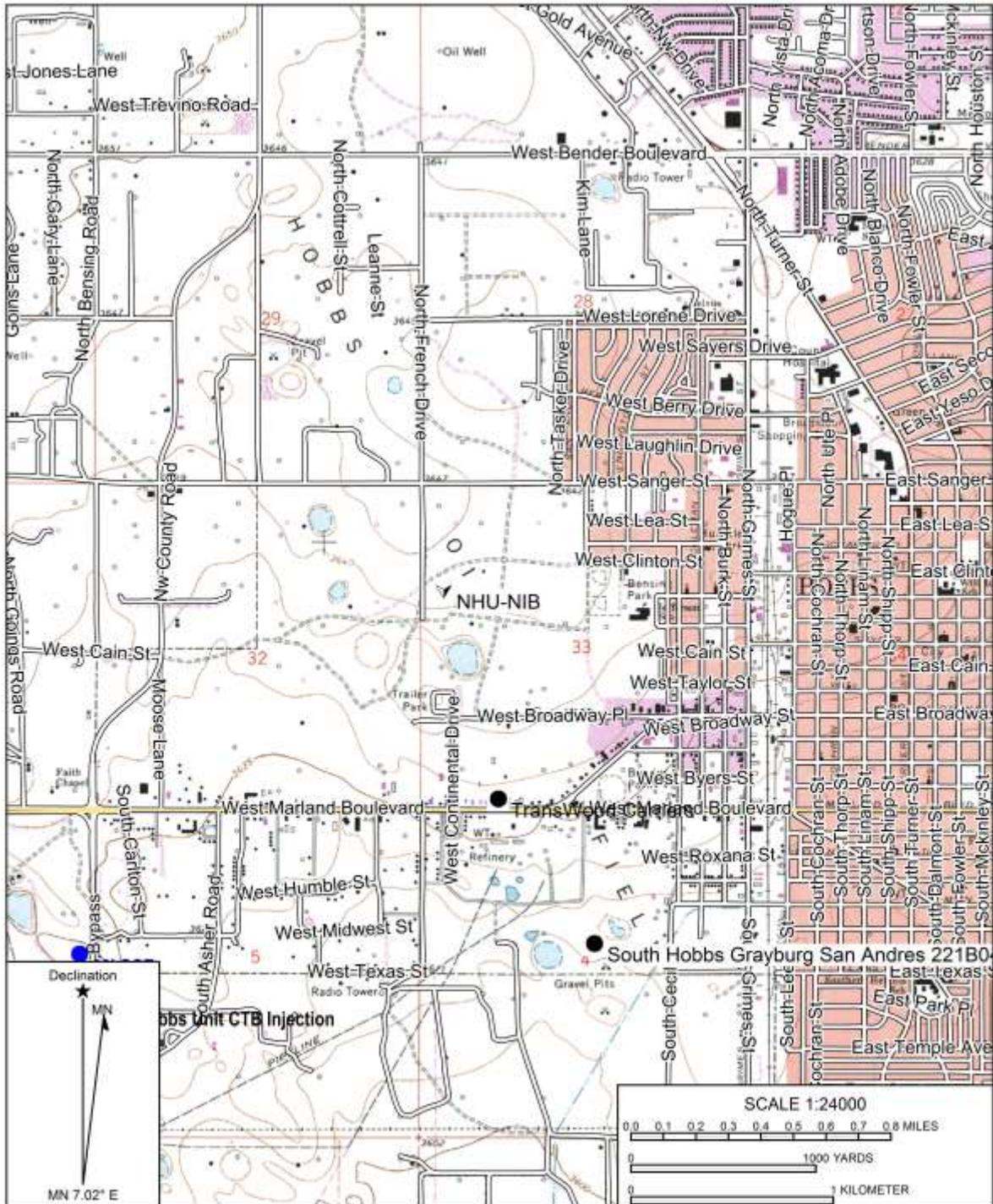
Describe Area Affected and Cleanup Action Taken.*
Safety & Environmental Solutions, Inc. will delineate the spill area and submit an appropriate work plan.

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: 	OIL CONSERVATION DIVISION	
Printed Name: Tony Aguilar	Approved by District Supervisor:	
Title: HES Specialist	Approval Date:	Expiration Date:
E-mail Address: Raymond_Aguilar@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/22/2014 Phone: 575-390-6312		

* Attach Additional Sheets If Necessary

Figure 1
Vicinity Map

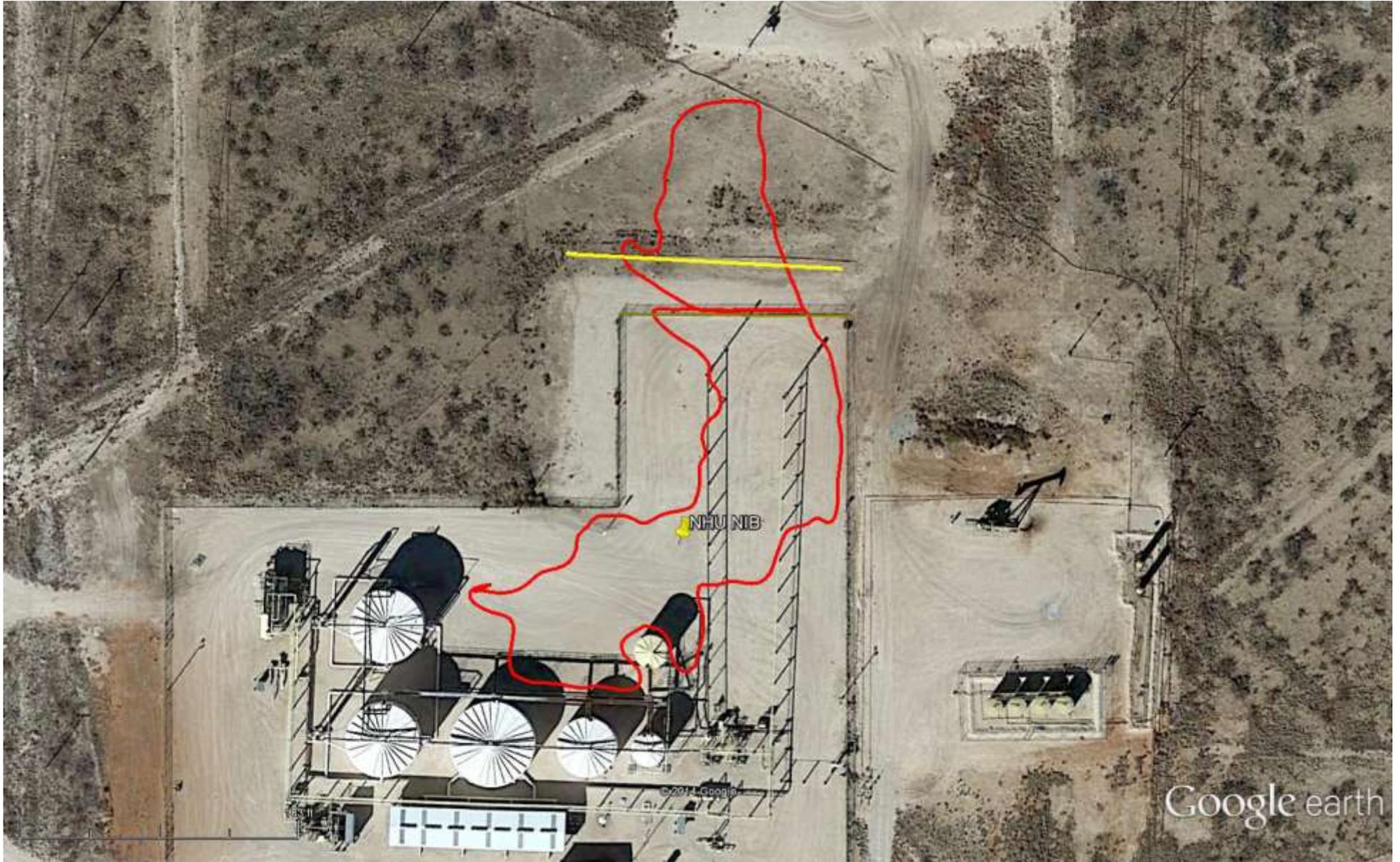


Name: HOBBS WEST,
 Date: 01/05/15
 Scale: 1 inch = 2,000 ft.

Location: 032.7056608° N, 103.1579445° W
 North Hobbs Unit North Injection Battery

Copyright (C) 2008, MyTopo

Figure 2
Site Plan



North Hobbs Unit North Injection Battery

Appendix A

Analytical Results



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

December 23, 2014

Bob Allen
Safety & Environmental Solutions
703 East Clinton
Hobbs, NM 88240

RE: OXY NHU - NIB

Enclosed are the results of analyses for samples received by the laboratory on 12/18/14 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	12/18/2014	Sampling Date:	12/17/2014
Reported:	12/23/2014	Sampling Type:	Soil
Project Name:	OXY NHU - NIB	Sampling Condition:	Cool & Intact
Project Number:	OXY - 14 - 032	Sample Received By:	Jodi Henson
Project Location:	HOBBS, NM LEA COUNTY		

Sample ID: SP - 1 SURFACE (H403863-01)

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	12/22/2014	ND	1.75	87.5	2.00	8.93		
Toluene*	<0.050	0.050	12/22/2014	ND	1.73	86.3	2.00	9.59		
Ethylbenzene*	<0.050	0.050	12/22/2014	ND	1.63	81.6	2.00	10.7		
Total Xylenes*	<0.150	0.150	12/22/2014	ND	4.90	81.7	6.00	11.5		
Total BTEX	<0.300	0.300	12/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID)		103 %		61-154						
Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	12/19/2014	ND	432	108	400	3.77		

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	12/22/2014	ND	191	95.3	200	4.92		
DRO >C10-C28	10.2	10.0	12/22/2014	ND	204	102	200	1.30		

Surrogate: 1-Chlorooctane 92.1 % 47.2-157
 Surrogate: 1-Chlorooctadecane 89.0 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 Fax To: (575) 393-4388

Received:	12/18/2014	Sampling Date:	12/17/2014
Reported:	12/23/2014	Sampling Type:	Soil
Project Name:	OXY NHU - NIB	Sampling Condition:	Cool & Intact
Project Number:	OXY - 14 - 032	Sample Received By:	Jodi Henson
Project Location:	HOBBS, NM LEA COUNTY		

Sample ID: SP - 2 SURFACE (H403863-02)

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	12/22/2014	ND	1.75	87.5	2.00	8.93		
Toluene*	<0.050	0.050	12/22/2014	ND	1.73	86.3	2.00	9.59		
Ethylbenzene*	<0.050	0.050	12/22/2014	ND	1.63	81.6	2.00	10.7		
Total Xylenes*	<0.150	0.150	12/22/2014	ND	4.90	81.7	6.00	11.5		
Total BTEX	<0.300	0.300	12/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID)		102 %		61-154						
Chloride: SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	12/19/2014	ND	432	108	400	3.77		

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	12/22/2014	ND	191	95.3	200	4.92		
DRO >C10-C28	<10.0	10.0	12/22/2014	ND	204	102	200	1.30		

Surrogate: 1-Chlorooctane 81.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 78.3 % 52.1-176

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 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	12/18/2014	Sampling Date:	12/17/2014
Reported:	12/23/2014	Sampling Type:	Soil
Project Name:	OXY NHU - NIB	Sampling Condition:	Cool & Intact
Project Number:	OXY - 14 - 032	Sample Received By:	Jodi Henson
Project Location:	HOBBS, NM LEA COUNTY		

Sample ID: SP - 3 SURFACE (H403863-03)

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	12/22/2014	ND	1.75	87.5	2.00	8.93		
Toluene*	<0.050	0.050	12/22/2014	ND	1.73	86.3	2.00	9.59		
Ethylbenzene*	<0.050	0.050	12/22/2014	ND	1.63	81.6	2.00	10.7		
Total Xylenes*	<0.150	0.150	12/22/2014	ND	4.90	81.7	6.00	11.5		
Total BTEX	<0.300	0.300	12/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID)		103 %		61-154						
Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	

Chloride	400	16.0	12/19/2014	ND	432	108	400	3.77	
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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	12/22/2014	ND	191	95.3	200	4.92		
DRO >C10-C28	168	10.0	12/22/2014	ND	204	102	200	1.30		

Surrogate: 1-Chlorooctane 90.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 93.2 % 52.1-176

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	12/18/2014	Sampling Date:	12/17/2014
Reported:	12/23/2014	Sampling Type:	Soil
Project Name:	OXY NHU - NIB	Sampling Condition:	Cool & Intact
Project Number:	OXY - 14 - 032	Sample Received By:	Jodi Henson
Project Location:	HOBBS, NM LEA COUNTY		

Sample ID: SP - 4 SURFACE (H403863-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2014	ND	1.75	87.5	2.00	8.93		
Toluene*	<0.050	0.050	12/22/2014	ND	1.73	86.3	2.00	9.59		
Ethylbenzene*	<0.050	0.050	12/22/2014	ND	1.63	81.6	2.00	10.7		
Total Xylenes*	<0.150	0.150	12/22/2014	ND	4.90	81.7	6.00	11.5		
Total BTEX	<0.300	0.300	12/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID)		104 %		61-154						
Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	

Chloride	464	16.0	12/19/2014	ND	432	108	400	3.77	
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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	12/22/2014	ND	191	95.3	200	4.92		
DRO >C10-C28	65.9	10.0	12/22/2014	ND	204	102	200	1.30		

Surrogate: 1-Chlorooctane 86.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 85.8 % 52.1-176

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*=Accredited Analyte

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Received:	12/18/2014	Sampling Date:	12/17/2014
Reported:	12/23/2014	Sampling Type:	Soil
Project Name:	OXY NHU - NIB	Sampling Condition:	Cool & Intact
Project Number:	OXY - 14 - 032	Sample Received By:	Jodi Henson
Project Location:	HOBBS, NM LEA COUNTY		

Sample ID: SP - 5 SURFACE (H403863-05)

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	12/22/2014	ND	1.75	87.5	2.00	8.93		
Toluene*	<0.050	0.050	12/22/2014	ND	1.73	86.3	2.00	9.59		
Ethylbenzene*	<0.050	0.050	12/22/2014	ND	1.63	81.6	2.00	10.7		
Total Xylenes*	<0.150	0.150	12/22/2014	ND	4.90	81.7	6.00	11.5		
Total BTEX	<0.300	0.300	12/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID)		102 %		61-154						
Chloride: SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	12/19/2014	ND	432	108	400	3.77		

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	12/22/2014	ND	191	95.3	200	4.92		
DRO >C10-C28	<10.0	10.0	12/22/2014	ND	204	102	200	1.30		

Surrogate: 1-Chlorooctane 88.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 85.6 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	12/18/2014	Sampling Date:	12/17/2014
Reported:	12/23/2014	Sampling Type:	Soil
Project Name:	OXY NHU - NIB	Sampling Condition:	Cool & Intact
Project Number:	OXY - 14 - 032	Sample Received By:	Jodi Henson
Project Location:	HOBBS, NM LEA COUNTY		

Sample ID: SP - 6 SURFACE (H403863-06)

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	12/22/2014	ND	1.75	87.5	2.00	8.93		
Toluene*	<0.050	0.050	12/22/2014	ND	1.73	86.3	2.00	9.59		
Ethylbenzene*	<0.050	0.050	12/22/2014	ND	1.63	81.6	2.00	10.7		
Total Xylenes*	<0.150	0.150	12/22/2014	ND	4.90	81.7	6.00	11.5		
Total BTEX	<0.300	0.300	12/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/19/2014	ND	432	108	400	3.77		

TPH 8015M

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	12/22/2014	ND	191	95.3	200	4.92		
DRO >C10-C28	<10.0	10.0	12/22/2014	ND	204	102	200	1.30		

Surrogate: 1-Chlorooctane 86.2 % 47.2-157
 Surrogate: 1-Chlorooctadecane 85.6 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	12/18/2014	Sampling Date:	12/17/2014
Reported:	12/23/2014	Sampling Type:	Soil
Project Name:	OXY NHU - NIB	Sampling Condition:	Cool & Intact
Project Number:	OXY - 14 - 032	Sample Received By:	Jodi Henson
Project Location:	HOBBS, NM LEA COUNTY		

Sample ID: SP - 7 SURFACE (H403863-07)

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	12/22/2014	ND	1.75	87.5	2.00	8.93		
Toluene*	<0.050	0.050	12/22/2014	ND	1.73	86.3	2.00	9.59		
Ethylbenzene*	<0.050	0.050	12/22/2014	ND	1.63	81.6	2.00	10.7		
Total Xylenes*	<0.150	0.150	12/22/2014	ND	4.90	81.7	6.00	11.5		
Total BTEX	<0.300	0.300	12/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID Chloride, SM4500Cl-B)		102 % 61-154		mg/kg Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/19/2014	ND	432	108	400	3.77		

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	12/22/2014	ND	191	95.3	200	4.92		
DRO >C10-C28	<10.0	10.0	12/22/2014	ND	204	102	200	1.30		

Surrogate: 1-Chlorooctane 84.1 % 47.2-157
 Surrogate: 1-Chlorooctadecane 82.5 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	12/18/2014	Sampling Date:	12/17/2014
Reported:	12/23/2014	Sampling Type:	Soil
Project Name:	OXY NHU - NIB	Sampling Condition:	Cool & Intact
Project Number:	OXY - 14 - 032	Sample Received By:	Jodi Henson
Project Location:	HOBBS, NM LEA COUNTY		

Sample ID: SP - 8 SURFACE (H403863-08)

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	12/22/2014	ND	1.75	87.5	2.00	8.93		
Toluene*	<0.050	0.050	12/22/2014	ND	1.73	86.3	2.00	9.59		
Ethylbenzene*	<0.050	0.050	12/22/2014	ND	1.63	81.6	2.00	10.7		
Total Xylenes*	<0.150	0.150	12/22/2014	ND	4.90	81.7	6.00	11.5		
Total BTEX	<0.300	0.300	12/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/19/2014	ND	432	108	400	3.77		

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	12/22/2014	ND	191	95.3	200	4.92		
DRO >C10-C28	<10.0	10.0	12/22/2014	ND	204	102	200	1.30		

Surrogate: 1-Chlorooctane 86.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 82.5 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 Bob Allen
 703 East Clinton
 Hobbs NM, 88240
 Fax To: (575) 393-4388

Received:	12/18/2014	Sampling Date:	12/17/2014
Reported:	12/23/2014	Sampling Type:	Soil
Project Name:	OXY NHU - NIB	Sampling Condition:	Cool & Intact
Project Number:	OXY - 14 - 032	Sample Received By:	Jodi Henson
Project Location:	HOBBS, NM LEA COUNTY		

Sample ID: SP - 9 SURFACE (H403863-09)

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	12/22/2014	ND	1.75	87.5	2.00	8.93		
Toluene*	<0.050	0.050	12/22/2014	ND	1.73	86.3	2.00	9.59		
Ethylbenzene*	<0.050	0.050	12/22/2014	ND	1.63	81.6	2.00	10.7		
Total Xylenes*	<0.150	0.150	12/22/2014	ND	4.90	81.7	6.00	11.5		
Total BTEX	<0.300	0.300	12/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID)		103 %		61-154						
Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/19/2014	ND	432	108	400	3.77		

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	12/22/2014	ND	191	95.3	200	4.92		
DRO >C10-C28	<10.0	10.0	12/22/2014	ND	204	102	200	1.30		

Surrogate: 1-Chlorooctane 88.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 85.2 % 52.1-176

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Company Name: Safety & Environmental Solutions, Inc. **BILL TO** ANALYSIS REQUEST

Project Manager: Bob Allen P.O. #:

Address: 703 East Clinton City: **Same OXY**

City: Hobbs State: NM zip: 88240 Attn: **Rachel Jordan**

Phone #: 575-397-0510 Fax #: 575-393-4388 Address: **6 Dora Dr. 6800**

Project #: **OXY-14-032** Project Owner: **OXY** City: **MIDLAND**

Project Name: **OXY NHU-NIB** State: **TX** zip: **79716**

Project Location: **6800s, NW Lea County** Phone #: **412-685-5912**

Sampler Name: **SOSL JERRY** Fax #:

Lab I.D. **H40380B** Sample I.D. **TPH (8015)**

Matrix: GRAB OR (C)OMP. GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:

Acid/Base: ACID/BASE ICE / COOL OTHER:

Preserv: PRESERV. SAMPLING

Date: **12/17** Time: **0455**

Temp: **5.42** Sample Condition: Cool Intact Yes No

Delivered By: **5.42** Checked By: **#54**

Sampler: **lps - Bus - Other**

Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

Remarks: **TPH (8015) BTEX CHLORIDES**

Phone Result: Yes No Add'l Phone #:

Fax Result: Yes No Add'l Fax #:

Remarks:

Received By: **Joel Jensen**

Date: **12/17** Time: **1130**

Delivered By: **5.42**

Sampler: **lps - Bus - Other**

Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

Remarks: **#54**

TPH (8015) BTEX CHLORIDES

Appendix B

C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: OXY	Contact: Raymond Aguilar
Address: 1017 W Stanolind Road	Telephone No. 575-390-6312
Facility Name: North Hobbs Unit North Injection Battery	Facility Type: Oil and Gas Production
Surface Owner: State of New Mexico	Mineral Owner:
	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	33	18S	38E					

Latitude: 32.70653889 Longitude: -103.16163330

NATURE OF RELEASE

Type of Release: Produced Water and Oil	Volume of Release: 5 BBLS Oil 37 BBLS Water	Volume Recovered: 15 BBLS Water
Source of Release: Equipment Malfunction PLC failed	Date and Hour of Occurrence: 10/22/2014 5:30 PM	Date and Hour of Discovery 10/22/2014 5:30 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Bill Sonomaker	
By Whom? Tony Aguilar 575-397-8251	Date and Hour: 10/22/2014 6:08 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Cause of leak Equipment Malfunction, The PLC failed causing fluid to go out inlet separator and to flare.

Describe Area Affected and Cleanup Action Taken.*

Safety & Environmental Solutions, Inc. will delineate the spill area and submit an appropriate work plan.

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: 	OIL CONSERVATION DIVISION	
Printed Name: Tony Aguilar	Approved by District Supervisor:	
Title: HES Specialist	Approval Date:	Expiration Date:
E-mail Address: Raymond_Aguilar@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/22/2014 Phone: 575-390-6312		

* Attach Additional Sheets If Necessary

Appendix C

Site Photographs

