## OXY USA, Inc. North Hobbs Unit North Injection Battery Closure Report

## Section 33, T18S, R38E Lea County, New Mexico

February 20, 2015



**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

## APPROVED

By OCD; Dr. Oberding at 10:50 am, Feb 20, 2015

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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 NMOCD (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	Less than 50 feet	20 points	
seasonal high water elevation of	50 feet to 99 feet	10 points	Х
groundwater)	>100 feet	0 points	
Wellhead Protection Area:			
(Less than 200 feet from a private domestic	Yes	20 points	
water source; or less than 1000 feet from all	No	0 points	Х
other water sources)			
Distance to Surface Water:			
(Horizontal distance to perennial lakes,	Less than 200 feet	20 points	
ponds, rivers, streams, creeks, irrigation	200 feet to 1000 feet	10 points	
canals and ditches)	>1000 feet	0 points	Χ
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<sup>-</sup>) (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 (C₀-C₁₀) (mg/kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/kg)
Depth	Method		Method		
SP1 at Surface	SM4500CI-B	176	TPH 8015M	<10.0	10.2
SP2 at Surface	SM4500CI-B	112	TPH 8015M	<10.0	<10.0
SP3 at Surface	SM4500CI-B	400	TPH 8015M	<10.0	168
SP4 at Surface	SM4500CI-B	464	TPH 8015M	<10.0	65.9
SP5 at Surface	SM4500CI-B	96	TPH 8015M	<10.0	<10.0
SP6 at Surface	SM4500CI-B	<16.0	TPH 8015M	<10.0	<10.0
SP7 at Surface	SM4500CI-B	<16.0	TPH 8015M	<10.0	<10.0
SP8 at Surface	SM4500CI-B	<16.0	TPH 8015M	<10.0	<10.0
SP9 at Surface	SM4500CI-B	32	TPH 8015M	<10.0	<10.0

## VI. Closure

- 1. Excavated and removed all Chloride contaminated soil transported to Sundance for disposal.
- 2. The excavated area has been 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

Form C-141 Revised October 10, 2003

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

#### 1220 South St. Francis Dr. Santa Fe, NM 87505 **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 Range Unit Letter Section Township 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: Volume of Release Volume Recovered: Produced Water and Oil 5 BBLS Oil 37 BBLS Water 15 BBLS Water Source of Release: Date and Hour of Occurrence: Date and Hour of Discovery Equipment Malfunction PLC failed 10/22/2014 5:30 PM 10/22/2014 5:30 PM Was Immediate Notice Given? If YES, To Whom? Yes 🗋 No 🗌 Not Required Bill Sonomaker By Whom? Tony Aguilar 575-397-8251 Date and Hour: 10/22/2014 6:08 PM Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. 🗌 Yes 🖾 No 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. OIL CONSERVATION DIVISION Signature: $\leq$ ZM. 2 Approved by District Supervisor: Printed Name: Tony Aguilar Title: HES Specialist Expiration Date: Approval Date: E-mail Address: Raymond\_Aguilar@oxy.com Conditions of Approval: Attached 🗌

\* Attach Additional Sheets If Necessary

Phone: 575-390-6312

Date: 10/22/2014

## Final C-141

District II Energy Mine	te of New Mexico erals and Natural Resources	Form C-14 Revised October 10, 200
1301 W. Grand Avenue, Artesia, NM 88210	onservation Division	Submit 2 Copies to appropriat
District IV 1220 S	South St. Francis Dr.	District Office in accordanc with Rule 116 on bac
1220 S. St. Francis Dr., Santa Fe, NM 87505 San	ta Fe, NM 87505	side of for
Release Notifica	tion and Corrective Ac	tion
	OPERATOR	🗌 Initial Report 🛛 Final Repo
Name of Company: OXY Address: 1017 W Stanolind Road	Contact: Raymond Aguilar	
Facility Name: North Hobbs Unit North Injection Battery	Telephone No. 575-390-631 Facility Type: Oil and Gas P	2
Surface Owner: State of New Mexico Mineral Ow		Lease No
		Lease No.
	Vorth/South Line Feet from the	East/West Line County
33 18S 38E		- County
Latitude: <u>32,7065388</u>	9 Longitude: <u>-103.16163330</u>	
NATU	RE OF RELEASE	
Type of Release: Produced Water and Oil	Volume of Release:	Volume Recovered:
Source of Release:	5 BBLS Oil 37 BBLS Water Date and Hour of Occurrence:	15 BBLS Water Date and Hour of Discovery
Equipment Malfunction PLC failed Was Immediate Notice Given?	10/22/2014 5:30 PM If YES, To Whom?	10/22/2014 5:30 PM
🛛 Yes 🔲 No 🛄 Not Requ	aired Bill Sonomaker	
By Whom? Tony Aguilar 575-397-8251 Was a Watercourse Reached?	Date and Hour: 10/22/2014 6:0	08 PM
Yes X No	If YES, Volume Impacting the	Watercourse.
If a Watercourse was Impacted, Describe Fully.*		
If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.*		
Describe Cause of Problem and Remedial Action Taken.*	to go out inlet separator and to flare.	
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 Cause of Problem and Remedial Action Taken.* Cause of leak Equipment Malfunction, The PLC failed causing fluid Describe Area Affected and Cleanup Action Taken.*	to go out inlet separator and to flare.	
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Describe Cause of Problem and Remedial Action Taken.* Cause of leak Equipment Malfunction, The PLC failed causing fluid Describe Area Affected and Cleanup Action Taken.*	e to the best of my knowledge and unde ase notifications and perform corrective by the NMOCD marked as "Final Repo	e actions for releases which may endanger ort" does not relieve the operator of liability
Describe Cause of Problem and Remedial Action Taken.* Cause of leak Equipment Malfunction, The PLC failed causing fluid Describe Area Affected and Cleanup Action Taken.* The approved workplan has been successfully completed. I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain reles public health or the environment. The acceptance of a C-141 report to should their operations have failed to adequately investigate and reme or the environment. In addition, NMOCD acceptance of a C-141 report to	to the best of my knowledge and under ase notifications and perform corrective by the NMOCD marked as "Final Repc ediate contamination that pose a threat ort does not relieve the operator of resp	e actions for releases which may endanger ort" does not relieve the operator of liability
Describe Cause of Problem and Remedial Action Taken.* Cause of leak Equipment Malfunction, The PLC failed causing fluid Describe Area Affected and Cleanup Action Taken.* The approved workplan has been successfully completed. I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain relea public health or the environment. The acceptance of a C-141 report ts should their operations have failed to adequately investigate and reme or the environment. In addition, NMOCD acceptance of a C-141 rep federal, state, or local laws and/or regulations.	to the best of my knowledge and under ase notifications and perform corrective by the NMOCD marked as "Final Repc ediate contamination that pose a threat ort does not relieve the operator of resp	e actions for releases which may endanger ort" does not relieve the operator of liability to ground water, surface water, human health ponsibility for compliance with any other
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# Figure 1 Vicinity Map

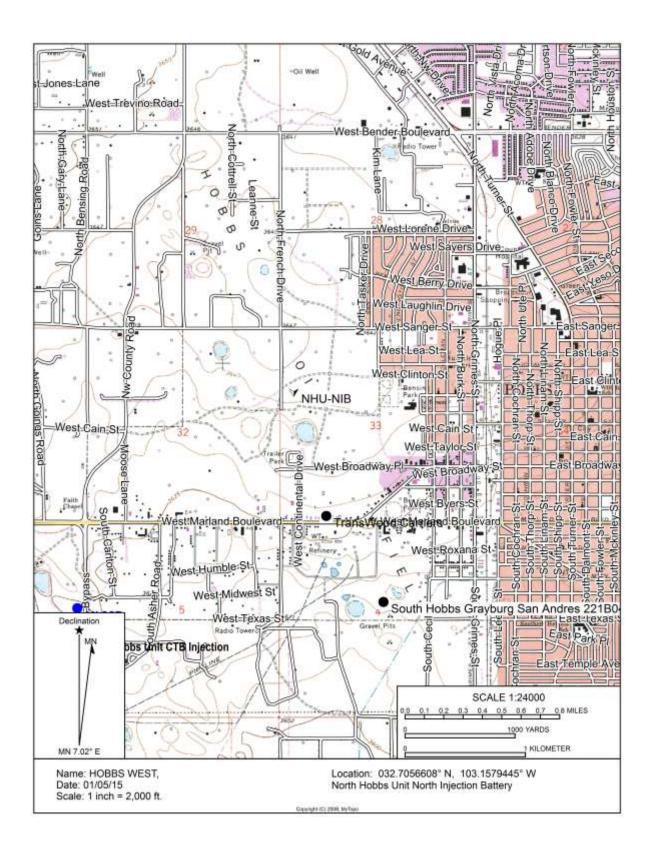
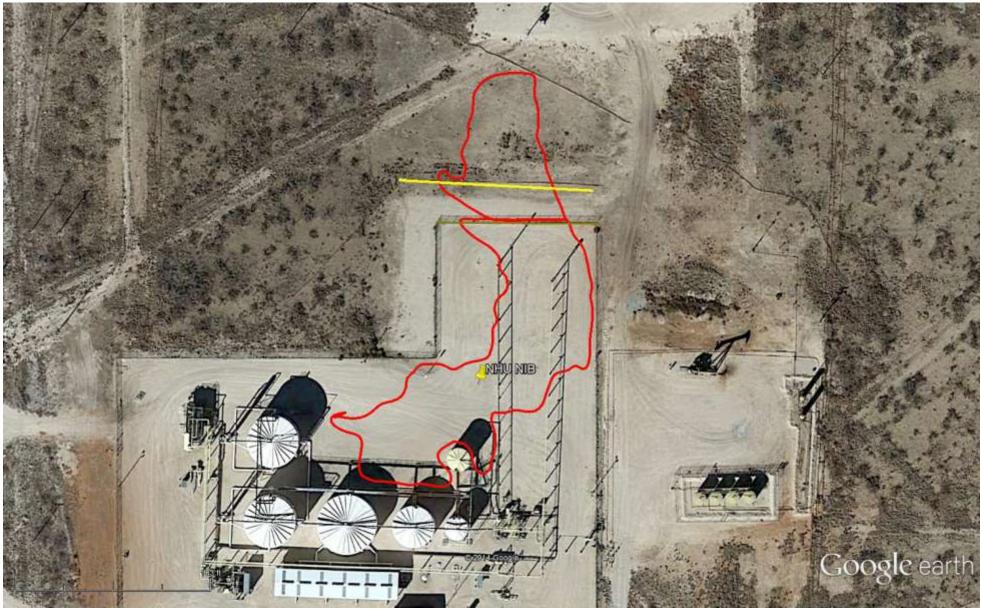


Figure 2 Site Plan



North Hobbs Unit North Injection Battery

Appendix A Analytical Results



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 <a href="https://www.tcea.texas.gov/field/ga/lab">www.tcea.texas.gov/field/ga/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager

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							E. MARLAND ° HOB		
		Analy	rtical Resul	ts For:					
		Safe	ety & Environm	nental Solutions					
			Allen						
			East Clinton						
			bs NM, 88240	202 4202					
		Fax	To: (575)	) 393-4388					
Received:	12/18/20	14		San	npling Da	ate:	12/17/2	014	
Reported:	12/23/20				npling Ty		Soil		
Project Name:	OXY NHU				npling Co		Cool & I		
Project Number:	OXY - 14		,	San	npie kece	eived By:	Jodi Her	nson	
Project Location:	HUBBS, I	NM LEA COUNTY							
Sample ID: SP - 1 SURFACE (H	1403863-0	)1)							
BTEX 8021B	mg/	kg	Analyze	d 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 (PII	0 103 9	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	176	16.0	12/19/2014	ND	432	108	400	3.77	
Chloride		ka.	Analyze	d By: MS					
	mg/	ĸġ							
	mg/ Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 8015M Analyte		-	-	Method Blank	вs 191	% Recovery 95.3	True Value QC 200	RPD 4.92	Qualifier
TPH 8015M Analyte GRO C6-C10	Result	Reporting Limit	Analyzed						Qualifier
Chloride TPH 8015M Analyte GRO C6-C10 DRO >C10-C28 Surrogate: 1-Chlorooctane	Result <10.0	Reporting Limit 10.0 10.0	Analyzed 12/22/2014 12/22/2014	ND	191	95.3	200	4.92	Qualifier

REAGE NOTE: Liability and Damages. Cardina's lability and dient's exclusive remedy for any dam ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All daims, including trace for negligence and any other cases whatower shall be deemed week unless make in writing and restrated by Cardinal within 1991 (30) days after completion of the applicable service. In no event shall Cardinal be liable for including trace for negligence and including, which iterations, basiness interactions, like or lise of the based based by Cardinal within 1991 (30) days after completion of the applicable service. In no event shall Cardinal be the information of the applicable service. In services here under by Cardinal, magneties of whether such daim is based upon any of the above stated measors or otherwise. Heads relate only to the samples identified above. This report shall not be reproduced ecopit in full with writion approval of Cardinal Laboratories.

Celecy D. Keene

Celey D. Keene, Lab Director/Quality Manager

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		Safe	tical Resul		5				
			Allen						
			East Clinton bs NM, 88240						
				393-4388					
Received:	12/18/20	014		Sai	mpling Da	ate:	12/17/	2014	
Reported:	12/23/20				mpling Ty		Soil		
Project Name:	OXY NHI				mpling Co		Cool &		
Project Number:	OXY - 14			Sai	mple Rec	eived By:	Jodi He	enson	
Project Location:	HOBBS,	NM LEA COUNTY							
Sample ID: SP - 2 SURFACE (H	403863-	02)							
TEX 8021B	.mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
lenzene*	<0.050	0.050	12/22/2014	ND	1.75	87.5	2.00	8.93	
"oluene*	<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	
Fotal 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					
urrogate: 4-Bromofluorobenzene (PID	102	% 61-154							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Thloride	112	16.0	12/19/2014	ND	432	108	400	3.77	
PH 8015M	mg,	/kg	Analyze	d 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	
urrogate: 1-Chlorooctane	81.0	% <u>47.2-15</u>	7						
urrogate: 1-Chlorooctadecane	78.3	% 52.1-17	5						
Cardinal Laboratories								*=Accredit	ted Analyte
PLEASE NOTE: Labelity and Damages. Cardinar's least any other cause whatboever shall be deemed watwood including, which limitation, basiness interruptions, loss i dam is beset upon my of the above stated reasons or offerwise	uniess made in of use, or loss	writing and received by Ca of profils incurred by client	rdinai within thirty (30) , its subsidiaries, affiliate	days after completion is s or successors arising	out of or relat	a service. In no ever ad to the performance	t shall Cardinal be liable	for incidental or	consequential dama
Colory D. Kee									

Celey D. Keene, Lab Director/Quality Manager

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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 - 3 SURFACE (H403863-03)

BTEX 8021B	mg/kg		Analyze	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 9	6 61-154							

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

90.0 %

47.2-157

52.1-176

A THE CONTRACTOR CONTRACTOR	11.00 <b>-</b> 1	1123 <del>-</del> 111	2010 C 1929 C 1910						
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	
TPH 8015M	mg	/kg	Analyze						
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

Surrogate: 1-Chlorooctadecane 93.2 %

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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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 Date:	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	Analyze	d 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 9	% 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Analyte	Result	Reporting Linit	Analyzeu	Plethod blank	05	to necovery	The value Qu	NPD .	Quanner
Chloride	464	16.0	12/19/2014	ND	432	108	400	3.77	
TPH 8015M mg/kg	/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	
DR0 >C10-C28	65.9	10.0	12/22/2014	ND	204	102	200	1.30	

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

85.8 % 52.1-176

47.2-157

86.0 %

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		Safe Bob 703	tical Resul ety & Environm Allen East Clinton bs NM, 88240 To: (575)		ıs				
Received: Reported: Project Name: Project Number: Project Location: Sample ID: SP - 5 SURFACE (H <sup>.</sup>		014 J - NIB H - 032 NM LEA COUNTY		Si	ampling Da ampling Ty ampling Co ample Reco	pe: ondition:	12/17/. Soil Cool & Jodi He	Intact	
BTEX 8021B	mg)	516 - F	Analyze	d 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	
Foluene*	< 0.050	0.050	12/22/2014	ND	1.73	86.3	2.00	9.59	
thylbenzene*	<0.050	0.050	12/22/2014	ND	1.63	81.6	2.00	10.7	
Fotal 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	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Thloride	96.0	16.0	12/19/2014	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS				and the	
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	% 47.2-15	e						
Surrogate: 1-Chlorooctadecane	85.6	% 52.1-170	ίγ.						
Cardinal Laboratories								*=Accredit	ed Analyte
PLEASE NOTE: Labelity and Damages. Candinat's labelit any other case whetsoever shall be deemed waved a induding, without limitation, business interruptions, loss of daim is based upon any of the above stanted reasons or otherwise.	niess made in f use, or loss	writing and received by Call of profils incurred by client,	dinal within thirty (30) Its subsidiaries, affiliate	days after completion s or successors arising	of the application out of or relation	e service. In no ever ed to the performance	t shall Cardinal be liable	for indulental or	consequential damag
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		Analy	rtical Resul	ts For:					
		Bob 703 Hob	Allen East Clinton bs NM, 88240	ental Solutions ) 393-4388	i				
Received:	12/18/20	14		Sar	npling Da	to:	12/17/2	2014	
Reported:	12/18/20				npling Da npling Ty		Soil	2014	
Project Name:	OXY NH				npling Co		Cool &	Intact	
Project Number:	OXY - 14					eived By:	Jodi He		
Project Location:	HOBBS,	NM LEA COUNTY	r			-			
Sample ID: SP - 6 SURFACE (H	403863-	06)							
3TEX 8021B	mg,	-	Analyze	d 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, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	85.0	% 52.1-17	Ő						
			-						
Cardinal Laboratories								*=Accredit	ted Analyt
PLEASE NOTE: Liability and Damages. Candina's liabil any other cause whatsoever shall be deemed waived in including, which limitation, business interruptions, loss o datin is based upon any of the above stated reasons or otherwise.	unless made in of use, or loss	writing and received by Co of profits incurred by client	ardinal within thirty (30) 1, its subsidiaries, affiliate	days after completion or s or successors artsing of	the applicable ut of or relat	e service. In no even ed to the performance	t shall Cardinal be liable	aims, including the for incidental or	se for negligence consequential dan
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		Dob		ental Solutions					
			Allen						
			East Clinton						
			bs NM, 88240	Develop 1 - Montanization					
		Fax	Fo: (575)	393-4388					
	12/18/201	4		San	npling Da	te:	12/17/	2014	
Reported: 1	12/23/201	4		San	npling Ty	pe:	Soil		
Project Name: C	DXY NHU	- NIB		San	npling Co	ndition:	Cool &	Intact	
Project Number: C	DXY - 14 -	032		San	nple Rece	eived By:	Jodi He	enson	
Project Location: H	HO <mark>B</mark> BS, N	M LEA COUNTY							
Sample ID: SP - 7 SURFACE (H40	03863-0	7)							
TEX 8021B	mg/k		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
enzene*	<0.050	0.050	12/22/2014	ND	1.75	87.5	2.00	8.93	
oluene*	<0.050	0.050	12/22/2014	ND	1,73	86.3	2.00	9.59	
thylbenzene*	<0.050	0.050	12/22/2014	ND	1.63	81.6	2.00	10.7	
Fotal Xylenes*	<0.150	0.150	12/22/2014	ND	4.90	81.7	6.00	11.5	
Fotal BTEX •	<0.300	0.300	12/22/2014	ND					
urrogate: 4-Bromofluorobenzene (PID	102 %	61-154							
Chloride, SM4500Cl-B	mg/k	g	Analyze	d 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	
PH 8015M	mg/k	g	Analyze	d 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	
urrogate: 1-Chlorooctane	84.1 %	47.2-157	3						
urrogate: 1-Chlorooctadecane	82.5 %								

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-	CARDINAL	
	CARDINAL Laboratories	

Labor		51105		PHO	ONE (575) 3	93-2326 ° 101	E. MARLAND ° HO	BBS, NM 88	240
		Analy	tical Resul	Its For:					
		Safe	ty & Environm	nental Solution	ns				
			Allen						
		703	East Clinton						
			bs NM, 88240						
		Fax	To: (575)	) 393-4388					
Received:	12/18/20	14		S	ampling Da	ate:	12/17/2	2014	
Reported:	12/23/20	114		S	ampling Ty	pe:	Soil		
Project Name:	OXY NHU				ampling Co		Cool &		
Project Number:	OXY - 14			Si	ample Rece	eived By:	Jodi He	nson	
Project Location:	HOBBS, I	MM LEA COUNTY							
ample ID: SP - 8 SURFACE (H4	403863-0	08)							
3TEX 8021B	mg/	kg	Analyze	d 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	
Foluene*	< 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	
Fotal BTEX	<0.300	0.300	12/22/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	
PH 8015M	mg/	kg	Analyze	d 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	6						
Surrogate: 1-Chlorooctadecane	82.5	% 52.1-176	E I						
Nga na nan tu tunu								20 KZ 12	- NASA - SADO
Cardinal Laboratories								*=Accredi	ted Analyte
PLEASE NOTE: Lability and Damages. Cardina's lability any other cause whatsoever shall be deemed waived a inducting, without limitation, basiness interruptions, loss of date is beaut gon any of the above stated macors or otherwise.	intess made in fuse, or loss	writing and received by Can of profits incurred by client,	dnai within thirty (30) Its subsidiaries, affiliate	days after completion as or successors artsing	of the applicable out of or relati	at to the performance	t shall Cardinal be liable	the incidental or	consequential dama

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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 - 9 SURFACE (H403863-09)

BTEX 8021B	mg/	kg	Analyze	d 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 9	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
					-				

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	12/22/2014	ND	191	95.3	200	4.92	
<10.0	10.0	12/22/2014	ND	204	102	200	1.30	
	<10.0	<10.0 10.0	<10.0 10.0 12/22/2014	<10.0 10.0 12/22/2014 ND	<10.0 10.0 12/22/2014 ND 191	<10.0 10.0 12/22/2014 ND 191 95.3	<10.0 10.0 12/22/2014 ND 191 95.3 200	<10.0 10.0 12/22/2014 ND 191 95.3 200 4.92

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

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#### **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.
28	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

#### Cardinal Laboratories

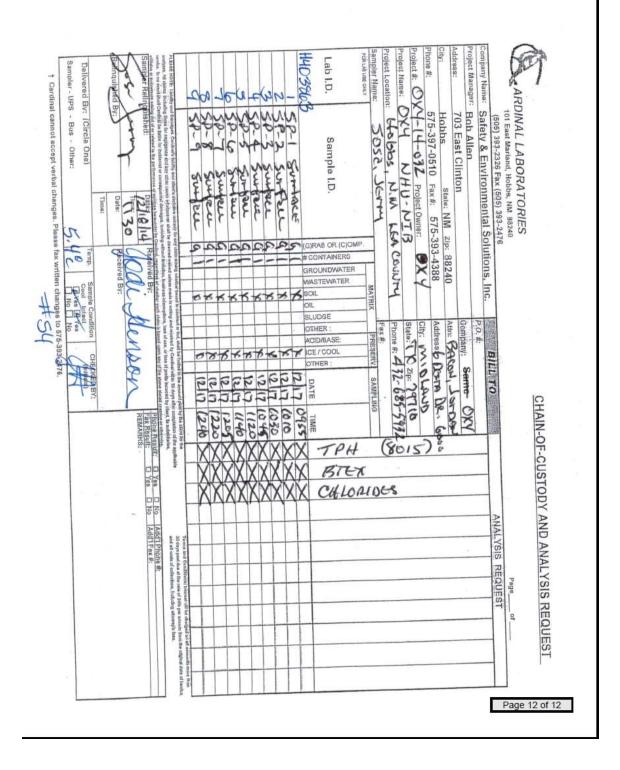
\*=Accredited Analyte

NESCE NOTE: Liability and Damages. Cardina's lability and dents exclusive remedy for any dam smang, whether based in contract or lost, shall be limited to the amount paid by client for analyses. All dams, including those for megliprice, and any other cause whetpower shall be deemed where uses made in writing and momental by Cardinal white Tahly (30) days affect completion of the applicable service. In no event shall Cardinal the limited to the information of the applicable service. In no event shall cardinal the information of the applicable service. In no event shall cardinal the limited to the performance of the services term. Limited to the performance of the services term. The method set of information of the applicable service. The method set of information of the services term. The method set of information of the services term. The method set of the services term. The method set of information of the services term. The method set of information of the services term. The method set of information of the services term. The method set of information of the service term. The method set of information of the service term. The method set of information of the service term. The method set of information of the service term. The method set of information of the service term. The method set of information of the service term. The method set of information of the service term. The method set of information of the service term. The method set of information of the service term. The method set of information of the service term. The method set of information of the service term. The method set of the service term of the service term. The method set of information of the service term. The method set of information of the service term of the

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Celey D. Keene, Lab Director/Quality Manager

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# Appendix B C-141

	strict 1 25 N. French Dr., Hobbs, NM 88240 strict II 01 W. Grand Avenue, Artesia, NM 88210 strict III 00 Rio Brazons Road, Aztec. NM 87410		Energy Mi	inerals	New Mexico and Natural Resources rvation Division			Form C-14 Revised October 10, 200; Submit 2 Copies to appropriat				
1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505			1220 South St. Francis Dr. Santa Fe, NM 87505				Submit 2 Copies to appropriat District Office in accordanc with Rule 116 on bac side of forn					
			Rel	ease Notifi		2		ction				
N						OPERA'			🛛 Initi	al Report	Final Rep	
Name of C Address: 10		DXY nolind Road					aymond Aguila No. 575-390-6					
			North In	jection Battery			/pe: Oil and Ga		tion			
Surface Owner: State of New Mexico Mineral Owner						: Lease No.						
				LOC	ATIO	N OF RE	LEASE					
Unit Letter	Section 33	Township 18S	Range 38E	Feet from the		South Line	Feet from the	East/W	Vest Line	County		
			Latit	tude: <u>32,70653</u>	<u>889</u> 1	ongitude:	103.16163330					
Tume of P-1				NAT	TURE	OF REL						
	Type of Release: Produced Water and Oil									me Recovered: BLS Water		
Source of Release:						Date and Hour of Occurrence: Date			Date and	Date and Hour of Discovery		
Equipment Malfunction PLC failed Was Immediate Notice Given?						10/22/2014 5:30 PM 10/22/2014 5:30 PM If YES, To Whom?						
By Whom? Tony Aguilar 575-397-8251						Date and H	Hour: 10/22/2014	6:08 PM				
Was a Watercourse Reached?							olume Impacting					
		on and round	dial Actio	on Taken.*					_	-		
Cause of leal	k Equipment			on Taken.* C failed causing flu	uid to go	out inlet sep	arator and to flare	à.		-		
			, The PLC	C failed causing flu	uid to go	out inlet sep	arator and to flare					
Describe Are	a Affected a	t Malfunction	, The PLC	C failed causing flu								
Describe Are Safety & Env I hereby certi regulations a public health should their c or the environ	a Affected a vironmental ify that the in ll operators or the envir operations h nment. In a	t Malfunction and Cleanup A Solutions, Inc nformation gi are required to you failed to a	, The PLC Action Tal c. will deli iven above o report at acceptanc adequately DCD accep	C failed causing flu ken.* ineate the spill are e is true and comp nd/or file certain n co fa C-141 repc	a and su lete to the elease no ort by the	bmit an appro tifications ar NMOCD m: contaminati	opriate work plan knowledge and u nd perform correc arked as "Finaj on that pose a th	inderstan ctive actio eport" do	ons for releases not releases	eases which ieve the oper	may endanger rator of liability	
Describe Are Safety & Env I hereby certi regulations a public health should their c or the environ	a Affected a vironmental ify that the in ll operators or the envir operations h nment. In a	t Malfunction and Cleanup A Solutions, Ind nformation gi are required to ronment. The ave failed to a ddition, NMC	, The PLC Action Tal c. will deli iven above o report at acceptanc adequately DCD accep	C failed causing flu ken.* ineate the spill are e is true and comp nd/or file certain n cc of a C-141 repc investigate and n	a and su lete to the elease no ort by the	bmit an appro tifications ar NMOCD m: contaminati	opriate work plan knowledge and u nd perform correc arked as "Finaj on that pose a th	nderstan tive actio eport" do eat to gro responsit	ons for rele oes not reli ound water bility for co	eases which ieve the oper r, surface wa ompliance w	may endanger rator of liability iter, human health vith any other	
Describe Are Safety & Env I hereby certi- regulations a public health should their c or the enviro federal, state,	a Affected a vironmental ify that the i II operators or the envir operations h mment. In a or local law	t Malfunction and Cleanup A Solutions, Ind nformation gi are required to ave failed to a ddition, NMC ws and/or regu	, The PLC Action Tal c. will deli iven above o report at acceptanc adequately DCD accep	C failed causing flu ken.* ineate the spill are e is true and comp nd/or file certain n cc of a C-141 repc investigate and n	a and su lete to the elease no ort by the emediate report de	bmit an appro tifications an NMOCD m contaminations sont relieve	opriate work plan knowledge and u d perform correc arked as "Final R on that pose a thr e the operator of	inderstan stive actio eport" do eat to gro responsit SERV.	ons for rele oes not reli ound water bility for co	eases which ieve the oper r, surface wa ompliance w	may endanger rator of liability ater, human health vith any other	
Describe Are Safety & Env I hereby certi- regulations a public health should their o or the envirou- federal, state, Signature:	a Affected a vironmental ify that the i or the envir or the envir or local law or local law e: Tony Agu	t Malfunction and Cleanup A Solutions, Ind nformation gi are required to ave failed to a ddition, NMC ws and/or regu	, The PLC Action Tal c. will deli iven above o report at acceptanc adequately DCD accep	C failed causing flu ken.* ineate the spill are e is true and comp nd/or file certain n cc of a C-141 repc investigate and n	ea and su lete to the lease nort by the emediate report de	bmit an appro tifications an NMOCD m contaminations sont relieve	opriate work plan knowledge and u d perform correc arked as "Final R on that pose a thr e the operator of <u>OIL CON;</u> District Supervis	inderstan tive actie eport" do eat to gro responsit SERV. or:	ons for rele oes not reli ound water bility for co	eases which ieve the oper r, surface wa ompliance w DIVISIC	may endanger rator of liability ater, human health vith any other	
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Appendix C Site Photographs

