

Oxy USA Myers Langlie Mattix Northwest Water Injection Trunk Line Closure Report Unit O, Section 31, Township 23S, Range 37E Lea County, New Mexico

April 1, 2005





Prepared for:

Oxy USA 1017 W. Stanolind Road Hobbs, New Mexico 88240

By:

Safety & Environmental Solutions, Inc. 703 E. Clinton Suite 102 Hobbs, New Mexico 88240 (505) 397-0510

TABLE OF CONTENTS

Ι.	Company Contacts	1
II.	Background	1
III.	Contaminant and Size of Area	1
IV.	Surface and Ground Water	1
V.	Soils	1
VI.	Work Performed	1
VII.	Request for Closure	2
VIII.	Figures & Appendices	3
	Figure 1 - Vicinity Map	4
	Figure 2 - Site Plan	5
	Appendix A - C-141	6
	Appendix B - Oxy Analytical Results	7
	Appendix C - SESI Analytical Results	8
	Appendix D - Site Photos	9

I. Company Contacts

Rick Kerby	Oxy USA	505-393-2174	rick_kerby@oxy.com
Bob Allen	SESI	505-397-0510	ballen@sesi-nm.com

II. Background

Safety & Environmental Solutions, Inc. (SESI) was contracted by Oxy USA to perform assessment and cleanup services on an area identified as the Myers Langlie Mattix Northwest Water injection Trunk Line. The subject site is an injection line leak area located in Section 31, Township 23S, Range 37E, Lea County, New Mexico.

III. Contaminant and Size of Area

The suspected contaminate was produced water from a flat plug on a 4" injection lateral that rusted out. Approximately 20 barrels of fluid was released, approximately one (1) barrel of oil and nineteen (19) barrels of brine. Eighteen barrels of fluid were recovered. The suspected contaminant was classified as an exempt oilfield waste. No evidence of other contaminants was observed.

IV. Surface and Ground Water

According to the database provided by the New Mexico State Engineer's Office the nearest groundwater of record is in Section 32 of the same range and township. The depth of water in the well was 106 feet on June 23, 1996.

V. Soils

The soils in the area are predominantly sand and sandy loam.

VI. Work Performed

The cleanup level reached by the application of the "Guidelines for Remediation of Leaks, Spill and Releases" New Mexico Oil Conservation Division – August 13, 1993 to this site is 5000 ppm Total Petroleum Hydrocarbon (TPH). Application of the New Mexico Oil Conservation Division's ranking criteria for contaminated soils at this site is presented below.

Depth to Ground Water:	0 points
Distance to Well Head or Water Source:	0 points
Distance to Surface Water/Waterways:	0 points
Total Score:	0 points

One June 16, 2004 Oxy USA excavated approximately 216 yards of hydrocarbon stained soils. The contaminated soil was transported to Sundance Services for disposal. After excavation Oxy retrieved six (6) samples inside the spill area, four (4) samples outside the spill area and one (1) composite sample. All samples were sent under Chain of Custody to Cardinal Laboratories of Hobbs, New Mexico. All samples were analyzed for Chlorides (CI[°]) (EPA Method 4500-CI[°]B), and TPH (EPA Method 8015). The results of the analysis are as follows:

Date	Sample ID	Cľ	GRO	DRO
7/19/04	A	32	<10.0	<10.0
7/19/04	B	48	<10.0	<10.0
7/19/04	С	16	<10.0	<10.0
7/19/04	D	16	<10.0	<10.0
7/19/04	Composite	1120	<10.0	113
7/19/04	1 @ 41⁄2'	1420	<10.0	53.3
7/19/04	2 @ 3'	1056	<10.0	321
7/19/04	3 @ 41/2'	912	<10.0	25.0
7/19/04	4 @ 2'	1870	<10.0	<10.0
7/19/04	5@1'	736	<10.0	12.7
7/19/04	6@2'	464	<10.0	1600

Approximately 216 yards of clean soil was purchased from the landowner and used to backfill the excavation.

On February 8, 2005 SESI drilled five (5) boreholes to a depth of 3'. Grab samples were retrieved at the 3' depth. All samples were sent under Chain of Custody to Cardinal Laboratories. The samples were analyzed for Chlorides (EPA Method 4500-CI⁻B), TPH (EPA Method 418) and Benzene, Toluene, Ethyl Benzene, and Total Xylenes (BTEX) (EPA Method 8260). The results of the analysis are as follows:

Date	Sample ID	CI	ТРН	Benzene	Toluene	Ethyl Benzene	Total Xylenes
2/8/05	BH #1 3'	800	<10	<0.005	< 0.005	<0.005	<0.015
2/8/05	BH #2 3'	480	1140	< 0.005	< 0.005	< 0.005	0.094
2/8/05	BH #3 3'	960	<10	<0.005	< 0.005	< 0.005	<0.015
2/8/05	BH #4 3'	1280	<10	<0.005	<0.005	< 0.005	<0.015
2/8/05	BH #5 3'	976	<10	< 0.005	< 0.005	<0.005	<0.015

VII. Request for Closure

There was a slight elevation of the TPH level in Borehole #2, which is in the immediate vicinity of the leak site. The Chloride levels are all under 1,000 ppm at the 3' depth with the exception of Borehole #4, which is 1280 ppm.

Due to the proximity of the groundwater SESI requests no further action be required at this site.

VIII. Figures & Appendices

Figure 1 - Vicinity Map Figure 2 - Site Plan Appendix A – C-141 Appendix B - Oxy Analytical Results Appendix C - SESI Analytical Results Appendix D - Site Photos

Figure 1 Vicinity Map

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Figure 2 Site Plan





Appendix A C-141

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Hrazos 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	X Initial Report 🛛 Final Repor			
Name of Company OXY USA WTP LP	Contact Rick Kerb	ý			
Address 1017 W. Stanolind Rd. Hobbs, N	M 88240 Telephone No. (O)	Telephone No. (O) 393-2174 C) 631-4972			
Facility Name Myers Langlie Mattix	Facility Type Wate	er Injection Trunk Line			
Surface Owner Deep Wells Ranch Mineral Owner Lease No.					

Mineral Owner

LOCATION OF RELEASE

Unit Letter	Section 31	Township T24S	Range R37E	Feet from the NW/4	North/South Line	Feet from the SE/4	East/West Linc	County

Latitude_ Longitude

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 20 bbl	Volume Re	covered 18
Source of Release Hole in Injection Line	Date and Hour of Occurrence 6- 7-04	Date and H 09:30 AM	lour of Discovery 6-7-04
Was Immediate Notice Given?	If YES, To Whom?	+	
☐ Yes X[] No [] Not Required			
By Whom?			
Was a Watercourse Reached?	Date and Hour If YES, Volume Impacting the Wa		······································
Yes X No	II TES, volume impacting the wa	lercourse.	
If a Watercourse was Impacted, Describe Fully.*			
· · · · · · · · · · · · · · · · · · ·			
·			
Describe Cause of Problem and Remedial Action Taken.*			
Hole in injection line leaked produced water into sundy pasture. Leak v	vas stopped, free water picked up and a	rea fenced in.	
Describe Area Affected and Cleanup Action Taken.*	· · · · · · · · · · · · · · · · · · ·		······································
IJ shaped area in pasture app 110' x 30' in sand. Water was picked up a	and soil will be allowed to dry. NMOC	D will be noti	fied and cleanup plan
submitted before any remedial work done.	;;		
*			
I hereby certify that the information given above is true and complete to			
regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by			
should their operations have failed to adequately investigate and remedi			
or the environment. In addition, NMOCD acceptance of a C-141 report			
foderal, state, or local laws and/or regulations.	t does not reneve the operation of respon	Stoliny for co	inplantee with any cases
	OIL CONSER	VATION	NIVISION
Signature:			
	Approved by District Supervisor.		
Printed Name: Rick Kerby			
Title: HES Tech	Approval Date:	Expiration D	ate:
17 mar 1 Addaman with to have been some	Conditions of America		
E-mail Address: rick_kerby@ioxy.com	Conditions of Approval:		Attached
Date: 6-7-04 Phone: 631-4972			
Lar. 0-1-0-1 1 m/m. 031-4772	1		L

* Attach Additional Sheets If Necessary

Appendix B Oxy Analytical Results



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PHONE (505) 383-2326 + 101 E. MARLAND + HOBES, NM 88240

ANALYTICAL RESULTS FOR OXY USA ATTN: RICK KERBY 1017 W. STANOLIND RD. HOBBS, NM 88240 FAX TO: (505) 397-8205

Receiving Date: 07/16/04 Reporting Date: 07/26/04 Project Number: NOT GIVEN Project Name: MLMU NW WTR INJ. Project Location: MYERS LANGLIE MATTIX Sampling Date: 07/16/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC/HM

LAB NUMBER SAMPLE ID	GRO (Ce-C10) (mg/Kg)	DRO (>C ₁₀ -C ₂₉) (mg/Kg)	Cl* (mg/Kg)	
ANALYSIS DATE	07/19/04	07/19/04	07/19/04	
H8921-1 A	<10.0	<10.0	32	1
H8921-2 B	<10.0	<10.0	48	
H8921-3 C	<10.0	<10.0	16	-
H8921-4 D	<10.0	<10.0	16	7
H8921-5 COMPOSITE	<10.0	113	1120	1
H8921-6 1	<10.0	53.3	1420	
H8921-7 2	<10.0	321	1056	
H8921-8 3	<10.0	25.0	912	
H8921-9 4	<10.0	<10.0	1870	1
H8921-10 5	<10.0	12.7	738	7
H0921-11 6	<10.0	1600	484	-19
Quality Control	743	730	\$90	-
True Value QC	800	800	1000	1
% Recovery	92.9	91.3	99.0	1
Relative Percent Difference	2.5	0	1.0	٦

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B *Analyses performed on 1:4 w;v aqueous extracts.

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PLEASE NOTE: Lisbitity and Damages. Cardinal's liability and client's exclusive remody for any claim arising, whether based in contract or tort, whall be britted to the amount peid by client jor analyses. Ar dature, including those for negligence and any other based withstower shall be desired weaked unlike and received by Cardinal within winty (30) days after companian of the applicatie aardos, in no even what Senders to state to incidental or consequential damages, having and received by Cardinal within winty (30) days after companian of the applicatie aardos, in no even what Senders to incidental or consequential damages, having and well and and the state and any state or prints incurred by cliam, is established by Cardinal measure and all damages in contractions, builded and any of the showers stated measure or otherwise.

Appendix C SESI Analytical Results

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ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC. ATTN: BOB ALLEN

703 E. CLINTON, #102 HOBBS, NM 88240 FAX TO: (505) 393-4388

Receiving Date: 02/08/05 Reporting Date: 02/09/05 Project Number: 0XY-05-004 Project Name: NW WATER INJECTION TRUNK LINE Project Location: NOT GIVEN Sampling Date: 02/08/05 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC/AH

PHONE (325) 673-7001 . 2111 BEECHWOOD . ABILENE, TX 79603

PHONE (505) 393-2328 ... 101 E. MARLAND . HOBBS, NM 88240-

LAB NUMBER	R SAMPLE ID	TPH (mg/Kg)	Cl* (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DA	ATE:	02/08/05	-02/09/05	02/09/05	02/09/05	02/09/05	02/09/05
H9534-1	BH #1.3'	<10	800	<0.005	<0.005	<0.005	<0.015
H9534-2	BH #2 3'	1140	480	<0.005	<0.005	<0.005	0.094
H9534-3	BH #3 3'	<10	960	<0.005	<0.005	<0.005	<0.015
H9534-4	BH #4 3'	<10	1280	<0.005	<0.005	<0.005	<0.015
H9534-5	BH #5 3'	<10	976	<0.005	<0.005	<0.005	<0.015
						x	
Quality Contro	bl	253		0.097	0.097	0.095	0.288
True Value QC	2	240	1000	0.100	0.100	0.100	0.300
% Recovery		105	96.0	96.8	97:2	95.4	96.0
Relative Perce	ent Difference	7.6	3.0	3.3	2.9	4.8	4.2

METHODS:

TRPHC-EPA 600/4-79-020 418.1;CI-Std. Methods 4500-CFB; BTEX-EPA SW-846 8260 *Analyses performed on 1:4 w:v aqueous extracts. Matrix interference (color) observed.

PLEASE NOTE:: Liability and Damages. Cardinal's tability and client's exclusive remady for any claim unising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All clauge, jecurage those for negligence and any other cause whatsoever shall be deemed waived unless made in witking and received by Cardinal within thirty (30) days after completion of the applicable service. If if d wait shall Cardinal be liable for incidental or consequential damages, including, without timitation, business interruptions, loss of use, or loss of prolifs incidental or otherwise. attiliates or successors arising cut of or related to the performance of services bereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Appendix D Site Photos

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