

# REPORTS

# **DATE:** /998



Navajo Refining Company Pipeline Division

# Abo 4" Closure Report

Eddy County, New Mexico

Safety & Environmental Solutions, Inc. 703 E. Clinton Suite 103 Hobbs, New Mexico 88240 (505) 397-0510

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### I. Physical Description

The legal description of the leak site is in Section 18 Township 17S, Range 27E, Eddy County, New Mexico. The site is located about 100 yards south of US Highway 82 along the west side of the Pecos River. The leak site is situated on a relatively level site. (Vicinity Map) The land is owned by State of New Mexico.

### II. Background

There is no evidence of past historical leaks observed on the surface along the pipeline.

### III. Contaminant and Size of Leak

The leak in the abandoned pipeline resulted in oil being discharged. Prior to our arrival onsite, the leak had been excavated by Navajo personnel to an area approximately 20 feet in width, 10 feet in width and 10 feet in depth. No evidence of other contaminants was observed upon our arrival.

### IV. Vertical and Horizontal Extent of Contamination

On November 23, 1998, composite samples were taken at the bottom and sides of the excavation. Total Petroleum Hydrocarbons (EPA Method 418.1) was performed on these samples by a third party laboratory. These tests verify the extent of contamination and insure removal of the contaminants to an acceptable regulatory level.

A water sample was also taken at this time of the groundwater that had seeped into the excavated area. This sample was also taken to a third party laboratory for analysis.

Ethvl

Total

The test results are as follows:

<u>Site</u>	<u>TPH</u>	<u>Benzene</u>	<u>Toluene</u>	Benzene	<u>Xylenes</u>
South Side	<10ppm				
North Side	<10ppm				
Bottom	25.6ppm				
South East S	Side	<.002ppm	.004ppm	.004ppm	<.006ppm
South West	Side	<.002ppm	<.003ppm	<.002ppm	<.006ppm

South East <b>H</b>	Bottom	<.002ppm	<.003ppm	<.002ppm	<.006ppm
South West	Bottom	<.002ppm	<.003ppm	<.002ppm	<.006ppm
North East S	Side	<.002ppm	.004ppm	.004ppm	<.006ppm
North West	Side	<.002ppm	<.003ppm	<.002ppm	<.006ppm
North East I	Bottom	<.002ppm	<.003ppm	<.002ppm	<.006ppm
North West	Bottom	<.002ppm	<.002ppm	<.002ppm	<.006ppm
Water	22.3ppm	.061ppm	.117ppm	.051ppm	.075ppm

### V. Surface Water and Waterways

The distance to the nearest surface water is approximately three eighths of a mile.

### VI. Groundwater

The groundwater was encountered at a depth of approximately ten feet.

### VII. Soil Information

The soil in the area consists of sandy clay to total excavation depth.

### VIII. Work Performed

The initial sampling performed on November 23, 1998. As the water sample showed contamination, the site was evacuated of water and left open. On November 30, 1998, the water was resampled to confirm any potential contamination. Those results area as follows:

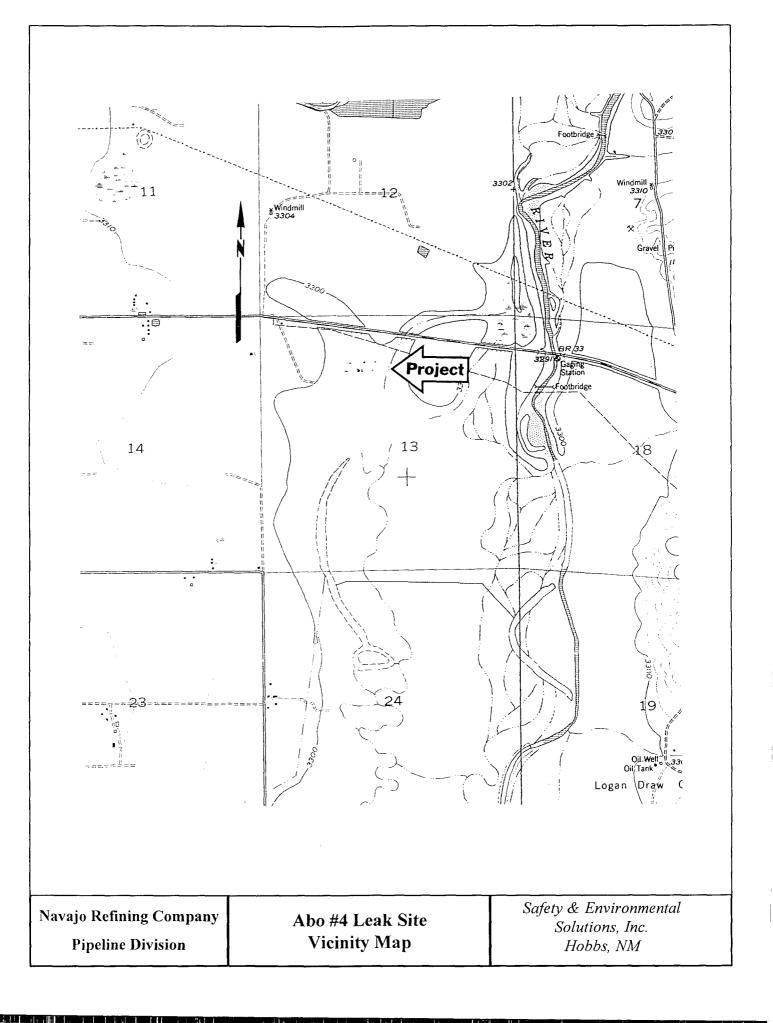
<u>Site</u>	<u>TPH</u>	<u>Benzene</u>	<u>Ethyl</u> <u>Toluene</u>	<u>Total</u> Benzene	<u>Xylenes</u>
Water	<1.0ppm	<.002ppm	<.002ppm	<.002ppm	<.006ppm

Based upon the results of the second water sampling, approval was received from the New Mexico Oil Conservation Division in Santa Fe, New Mexico for closure on the leak site.

The leak site excavation was then backfilled to grade by Navajo personnel with clean soils. The contaminated soils were hauled offsite to another Navajo property.

### IX. Maps and Figures

Vicinity Map Site Plan Photo Exhibits Chain of Custody for Samples Analytical Results

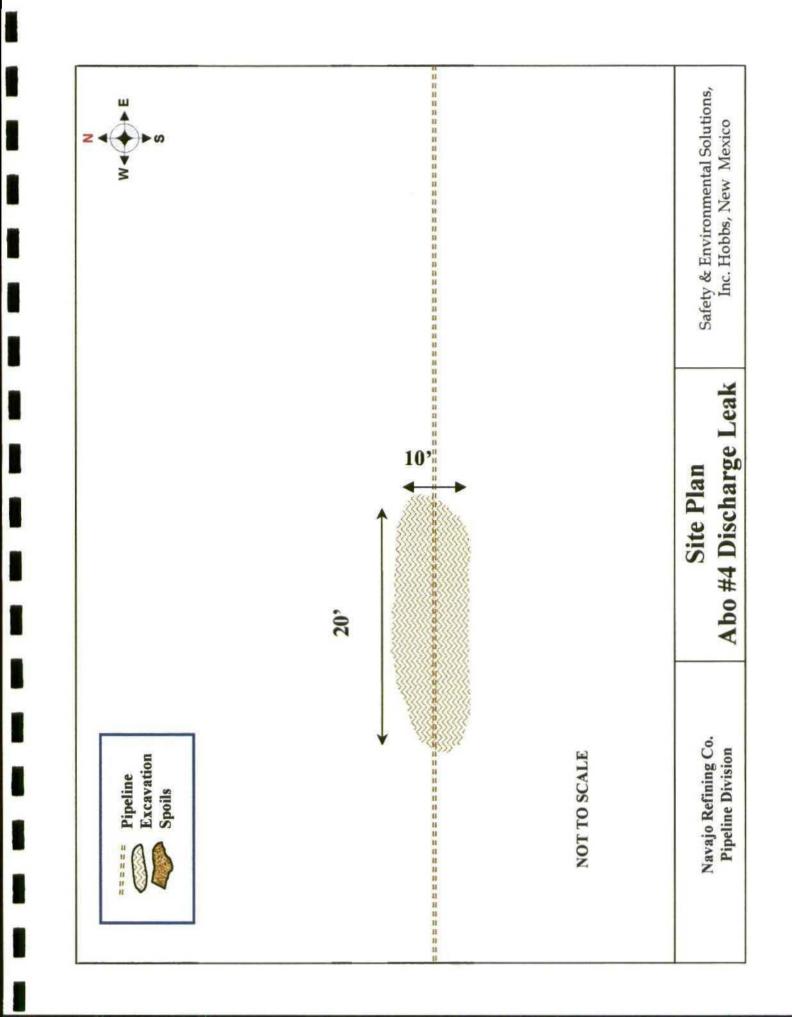


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Abo #4 - During Excavation



Abo #4 - During Excavation



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Abo #4 - After Excavation



Abo #4 - After Excavation



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

### PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC. ATTN: DEE WHATLEY 703 E. CLINTON SUITE 103 HOBBS, NM 88240 FAX TO:

Receiving Date: 11/24/98 Reporting Date: 11/30/98 Project Number: NOT GIVEN Project Name: NAVAJO AB 4" Project Location: MILE POST 4.1 Sampling Date: 11/24/98 Sample Type: SOIL\* Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: BC

CT1 11/1

TOTAL

LAB NO.	SAMPLE ID	TPH (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS	DATE	11/24/98	11/24/98	11/24/98	11/24/98	11/24/98
			11/24/90	11/24/90	11/24/90	11/24/90
H3944-1	SOUTH SIDE	<10	-	-	-	-
H3944-2	NORTH SIDE	<10	-	-	-	-
H3944-3	BOTTOM HOLE	25.6	-	-	-	-
H3944-4	GROUNDWATER*	22.3	0.061	0.117	0.051	0.075
H3944-5	SOUTH E. SIDE	-	<0.002	0.004	0.004	<0.006
H3944-6	SOUTH W. SIDE	-	<0.002	< 0.003	<0.002	<0.006
H3944-7	SOUTH E. BOTTOM	-	<0.002	< 0.003	<0.002	<0.006
H3944-8	SOUTH W. BOTTOM	-	<0.002	< 0.003	<0.002	<0.006
H3944-9	NORTH E. SIDE	-	<0.002	<0.003	<0.002	<0.006
H3944-10	NORTH W. SIDE	-	<0.002	< 0.003	<0.002	<0.006
H3944-11	NORTH E. BOTTOM	-	<0.002	0.003	0.002	<0.006
H3944-12	NORTH W. BOTTOM	-	<0.002	<0.002	<0.002	<0.006
Quality Cor	ntrol	240	0.101	0.105	0.105	0.312
True Value	QC	260	0.100	0.100	0.100	0.300
% Recover	у	92.3	101	105	105	104
<b>Relative</b> Pe	ercent Difference	5.6	5.9	3.2	11.1	9.6

METHODS: TRPHC - EPA 600/7-79-020, 418.1; BTEX - EPA SW846-8020, 8260 \*Except H3944-4 (Groundwater, in mg/L).

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### H3944-1.XLS

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, 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.

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analyses. All claims including tho: service. In no event shell Cardina	Insigned. At during those for negigenoe and any other cause whattoever shall be deemed warved unless made in writing and neoelved by Cardinal writin 30 days after completion of the ap service. In no event shall Cardinal be lathe for incloantal or consequential damages, including writived, instat	Noever shell	the deem throw the	out limits	ki urless Kon, busi		witting and ruptions,	I received	f by Cardi a, or loss	el within 30 of profits ir	witting and received by Cardinal within 30 days after completion of the applicable immutions, loss of use, or loss of profits incurred by clear, its advaldantes,	completion ant, its sub	of the application.	cable		30 de Tal de	30 days past due at the rate of 24% per annum from and all costs of collections, including attorney's flees	it the rate of lections, incl	24% per an uding attorne	rnum from the rey's fees.	30 days pest due at the rate of 24% per annum from the original date of involce and all costs of codections, including attorney's fees.	of Invoice,	
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ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC. ATTN: DEE WHATLEY 703 E. CLINTON, STE 103 HOBBS, NM 88240 FAX TO:

Receiving Date: 12/01/98 Reporting Date: 12/02/98 Project Number: NOT GIVEN Project Name: NAVAJO REFINING Project Location: ABO 4" MILEPOST 4.1 Sampling Date: 12/01/98 Sample Type: GROUNDWATER Sample Condition: COOL, INTACT Sample Received By: AH Analyzed By: BC

		•••			ETHYL	TOTAL
LAB NUMBER SAMF	PLE ID	` <b>`</b> `TPH	BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ANALYSIS DATE:		12/01/98	12/01/98	12/01/98	12/01/98	12/01/98
H3947-1 NOT	GIVEN	<1.0	<0.002	<0.002	<0.002	<0.006
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Quality Control	— <u>,</u>	139	0.097	0.096	0.091	0.278
True Value QC		150	0.100	0.100	0.100	0.300
% Recovery	· · · ·	92.8	96.9	95.6	90.9	92.7
Relative Percent Diffe	erence	0.2	4.4	9.5 ·	15.7	12.2

METHODS: TRPHC - EPA 600/7-79-020, 418.1; BTEX - EPA SW-846-8260

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Date

PLE499947: MtbGty 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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, 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.

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ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC. ATTN: DEE WHATLEY 703 E. CLINTON, STE 103 HOBBS, NM 88240 FAX TO:

Receiving Date: 12/01/98 Reporting Date: 12/02/98 Project Number: NOT GIVEN Project Name: NAVAJO REFINING Project Location: ABO 4" MILEPOST 4.1 Sampling Date: 12/01/98 Sample Type: GROUNDWATER Sample Condition: COOL, INTACT Sample Received By: AH Analyzed By: BC

		• •			ETHYL	TOTAL
LAB NUMBE	ER SAMPLE ID	TPH	BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ANALYSIS I	DATE:	12/01/98	12/01/98	12/01/98	12/01/98	12/01/98
H3947-1	NOT GIVEN	<1.0	<0.002	<0.002	<0.002	<0.006
Quality Cont	trol	139	0.097	0.096	0.091	0.278
True Value	QC	150	0.100	0.100	0.100	0.300
% Recovery	,	92.8	96.9	95.6	90.9	92.7
Relative Per	rcent Difference	0.2	4.4	9.5	15.7	12.2

METHODS: TRPHC - EPA 600/7-79-020, 418.1; BTEX - EPA SW-846-8260

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Date

PLE493017: XEC y 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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, 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.

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TELEPHONE (505) 748-3311

EASYLINK

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SARDO

# **REFINING COMPANY**

FAX (505) 746-6410 ACCTG (505) 746-6155 EXEC (505) 748-9077 ENGR (505) 746-4438 P / L

501 EAST MAIN STREET • P. O. BOX 159 ARTESIA, NEW MEXICO 88211-0159

March 2, 1999

Mr. Roger Anderson NM Oil Conservation Division Environmental Bureau 2040 S. Pacheco St. Santa Fe, NM 87505-5472 MAR - 3 1999

### RE: Abo 4" Spill Closure Report, Navajo Refining Co.

Dear Roger,

Enclosed, please find the closure report for a spill that occurred on November 20, 1998 along Navajo's abandoned 4" Abo Pipeline. The spill occurred as a result of a contractor hitting the line with a backhoe. Mike Stubblefield of the Artesia District office was notified of the spill within one hour and representatives of the OCD have inspected this site regularly during the clean-up and closure phase. Also, two copies of this report have been sent to Mr. Tim Gumm of the OCD District office in Artesia.

The closure report by Safety and Environmental Solutions, details the cleanup activities and sampling that were done. If you have any questions after going over the report, I can be reached at 505-748-3311. Thank you for your attention to this matter.

Sincerely, NAVAJO REFINING CO.

Darrell Moore Environmental Mgr. for Water and Waste

Encl.

<u>District 1</u> · (505) 393-0101 Dtate U P. O. Box 1980	I INEW IVIEXICO	Form C- 14
Hobbs, NM 88241-1980 Energy Minerals and	Natural Resources Department	Originated 2/13/9
	servation Division	
811 South First 2040 S	outh Pacheco Street	Submit 2 copies
Jutesia, NW 83210	New Mexico 87505	Appropriate Distri
	05) 827-7131	Office in accordance
Aztec, NM 87410	05) 827-7131	with Rule 116 c
District IV - (505) 827-7131		back side of for
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Release Notifica		<b>1 1 1 1 1 1</b>
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Name Navajo Refining Company	Contact albert Reyes	
Address	Telephone No.	
501 East Main Street	505-748-3311	
Facility Name	Facility Type	
Abo Discharge Line	Pipeline	
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Surface Owner Mineral Ow	ner Li	ease No.
Blaine Haines		
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D 13 17s 27e 100 North	500 West Ed	dy
	l	
NATUI	E OF RELEASE	
Type of Release	Volume of Release	Volume Recovered
Crude Oil	65 bbls.	65 bbls.
Source of Release		Date and Hour of Discovery
<b>4" steel pipeline</b> •	1:00 p.m. 11-20-98	1:00 p.m. 11-20-98
X Yes No Not Required		M Oil Conservation Di
By Whom?	Mike Stubblefield N	M OII COnservation D
Albert Reyes	2:00 p.m. 11-20-98	
Was a Watercourse Reached?	If YES, Volume Impacting the Waterco	
Yes No	in TES, volume impacting the watered	use.
If a Watercourse was Impacted, Describe Fully. (Attach Additional Sheets If Ne West of the Pecos River and the water table excavation is what was impacted, however, t information and analysis on this spill are Describe Cause of Problem and Remedial Action Taken. (Attach Additional She	is at four (4) feet. The wat he water table itself remained provided in the closure report	er flowing into the unimpacted, all
until the line could be repaired.	en out of service which helped d in a 15 foot diamter and was	minimize the amount
Describe Area Affected and Cleanup Action Taken. (Attach Additional Sheets I	(Necessary) The area affected	was salt grass
pasture land with salt cedar brush. Clean		
I hereby certify that the information given above is true and complete to the best of are required to report and/or file certain release notifications and perform corrective a C-141 report by the NMOCD marked as "Final Report" does not relieve the oper- contamination that pose a threat to ground water, surface water, human health or t operator of responsibility for compliance with any other federal, state, or local law	e actions for releases which may endanger public health of stor of liability should their operations have failed to add he environment. In addition, NMOCD acceptance of a	or the environment. The acceptance of equately investigate and remediate
Signature: Albert Kay	OIL CONSERVATION	I DIVISION
Printed Name: Albort D. Bourge	Approved by District Supervisor	
AIDELL D. REYES	District Supervisor:	ion Date:
Tide: Crude Systems Supervisor	Approval Date: Expirat	ion Date:
Date: Phone: 505-748-3311	Conditions of Approval:	Attached

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O. B. 19 O. B. 19 obbs, A.M. District II Artesia, NM. District III 1000 Rio B. Aztec, NM. District IV	88241-19 (505) 74 First 1 88210 - (505) 33 razos Roac 87410	950 8-1283 84-6178 H	End	ergy Mind	e Notificatio	atural Vation h Pache ew Mex ) 827-7 on and	Resour Divi co Stre ico 875 131 Correc	rces Depart sion et 505		C	Form C- 14 Driginated 2/13/9 Submit 2 copies Appropriate Distri Office in accordance with Rule 116 of back side of for
Name	<u></u>		ą.		0	PERAT	Contac		<u>ليد</u>	Initial Report	Final Repo
	Refin	ing Comp	any				Alt	ert Reves			
Address		<b>.</b>	-				Telepho				
Facility Nan		n Street					Facility			<del>.</del>	
		e Line					· ·	œline			
Surface Ow Blaine	ner e Haine	s			Mineral Owner					Lease No.	
L					LOCATION	N OF R	FIFAS		!		
Unit Letter	Section	Township	Range	Feet from the	North/South Li	ne Feet	rom the	East/West Line	County		
D	13	17s	27e	100	North	50	5	West	Ec	3dy	, <u></u>
					NATURE	OF RE	LEASE				
Type of Relea								of Release		Volume Recover	
Source of Rel				······				d Hour of Occurrer	nc <del>e</del>	65 bb	
Pipeli	ne						1:00	) p.m. 11-	20–98	1:00 p.m.	
Was Immediate Notice Given? X Yes No Not Required If YES, To Whom? Mike Stubblefield NM Oil Conservation I									rvation Div		
By Whom? Albert Reyes Date and Hour 2:00 p.m. 11-20-98											
Was a Water	rcourse Read	hed?	Yes	No			If YES, Y 65	Volume Impacting 1	the Waterc	ourse.	
The le Describe Cau into t was re	se of Proble the pip	ured app m and Remedia eline. d and the	roximat al Action Ta Crews i e leak	ken. (Attach A mmediate was repa	dditional Sheets ly containe	est of If Necessa ed the contai	<sup>ry)</sup> C spill minate	Contractor in a 10' d soil was	excava x 20'	ge on US Hw ating hit a area. All vated immed	nd cut liquid
					onal Sheets If No			ipany -			
very 1 contam	ittle inated	vegetati	on with s excav	most of	it being a	salt g	cass.	All liqui	d was	private la recovered ne clean up	and the
<ul> <li>are required to a C-141 report contamination</li> </ul>	o report and t by the NN n that pose	Vor file certain MOCD marked a threat to grou	release notif as "Final Re ind water, su	ications and pe port does not r rface water, hu	form corrective act elieve the operator	ions for reli of liability nvironmen	ases which should the . In addit	h may endanger pu ir operations have	blic health failed to ac	OCD rules and regu or the environment dequately investigat a C-141 report does	. The acceptance of e and remediate
								OIL CONS	ERVATIO	N DIVISION	
Signature:						Approved	by				
Printed Name	Alb	ert D. R	eyes			District S	upervisor.				
litle: <b>Cru</b> Date:	de Sys	tems Supe	ervisor	Diversion		Approval		noval:	Expira	ation Date:	
		<del></del>		<b>50</b>	5-748-3311	Conaiti	ons of App	лоча;		Attached	

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