## 3R - 58

## REPORTS

# DATE: 8/18/1995

ROBERT L. BAYLESS

P. O. BOX 168 FARMINGTON, NM 87499

FAX NO. (505) 326-6911



OFFICE NO.

Mr. Roger Anderson Environmental Bureau Chief Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

Re: Final Report SFPRR No. 50 Oil Leak Miguel Creek Field McKinley County, New Mexico

Dear Mr. Anderson:

August 18, 1995

Bayless gave notice of an oil spill at the SFPRR No. 50, located 990' FSL and 990' FWL, Section 21, T 16 N, R 6 W, McKinley County, New Mexico, on July 10, 1995. Prior to and since that time, we have worked to mitigate damage resulting from this spill, as discussed more fully below. A chronological report of these activities is enclosed.

The spill from the SFPRR No. 50 consisted of a leak of 5 - 10 barrels of oil from the wellhead. This oil soaked or flowed into a subterranean gully which flows into Chico Arroyo (Miguel Creek) approximately 40' away. Due to the terrain and the steep 15' embankment of the creek, it is not possible to see that an oil leak at the wellhead is affecting the creek. Obviously, a 5 BO leak at the wellhead is treated differently, both from an operational and a regulatory stand point, than a 5 BO leak into a creek.

The Miguel Creek Oil Field is very remote, especially from oil field services and environmental services. Access is by 18 miles of dirt road north from San Mateo, New Mexico. The services are located in Farmington. After confirming that a leak into the creek had occurred and that it was not moving (the creek is ephemeral), we spent time determining how to clean it up and mobilizing a clean up crew. This had to be done immediately due to the travel time involved. Bayless then reported the matter to the OCD and was able to present a clean up proposal that was already mobilized.

At the request of Denny Foust of the OCD, water samples were collected from the creek 500' upstream and 300' downstream from the spill. The samples were analyzed for aromatic volatile organics, polynuclear aromatic hydrocarbons and 23 metals. The samples were collected on July 20, 1995. The analysis of these samples is attached. The use of Sphagsorb and the flushing of the creek were apparently totally effective in cleaning up the oil spill.

We believe we have been prudent and thorough in the mitigation of this spill. If there is any additional information which you require concerning this matter, please do not hesitate to call me.

Sincerely,

(onl)

Tom McCarthy Petroleum Engineer

cc: Denny Foust Oil Conservation Division Aztec, New Mexico Oil Spill Chronology of Events

#### MIGUEL CREEK

#### <u>July 7, 1995</u>

Tucker Bayless received call from rancher at 4 pm advising that a well may be leaking into Miguel Creek.

#### <u>July 8, 1995</u>

Tom McCarthy and Dave Ball (both Bayless employees) went to Miguel Creek. Walked creek from about SFPRR No. 15 to SFPRR No. 33 and from road crossing between B and C Battery to fence. Found SFPRR No. 50 leaking from "cavern" at creek level into creek. The creek is not visible from the wellhead area. Although there was a wellhead leak, no apparent conduit was visible from the wellhead area to the creek. The leak got to the creek through underground gullies. Estimated 5-10 BO leaked into the creek. Started pumping SFPRR No. 27 to lower fluid levels.

#### <u>July 10, 1995</u>

Studied cleanup alternatives for oil spilled in watercourses in remote areas. Contacted Onsite Technologies (Bob Crabb). Mobilized crew for 7/11/95 for cleanup. Reported spill to Ernie Bush at OCD.

#### July 11, 1995

Tom McCarthy, Dave Ball, Denny Foust(NMOCD) and John Little (Onsite Technologies) went to SFPRR No. 50 location and walked creek to fence. Spread 49 bags of Sphagsorb (absorbent) on oil in creek. Kevin McCord (a Bayless employee) called Nina Wells at NMED and EPA National Response Center. Started producing SFPRR No. 50.

#### July 12, 1995

John Little (Onsite) spread 108 bags of Sphagsorb on oil in creek. Mike Otis and Holgate roustabouts erected dam and Sphagsorb booms near fence at lower end of spill.

#### <u>July 13, 1995</u>

Dave Ball and Denny Foust put SFPRR No. 50 on pump to lower fluid levels. Built higher dam and installed more booms at the request of Denny Foust. Attempted to flush oil-Sphagsorb from creek using SFPRR No. 51 flowline and injection well at B Battery.

#### July 13, 1995 (cont.)

Excavated around SFPRR No. 50. Removed oily soil from creek area and put near SFPRR No. 50. Set up area to remediate soil on location. Oil leaching from vegetation back into water in creek.

#### July 14, 1995

Spread 50 additional bags of Sphagsorb on oil in creek. Could not flush creek with SFPRR No. 51 - B Battery water well. Sent pipe from Farmington to plumb into SFPRR No. 57 (water well for C Battery).

#### <u>July 15, 1995</u>

Flushing oil-Sphagsorb from creek down to booms to catch and remove using water from SFPRR No. 57. Discovered oil leak in gully that enters creek. Oil coming from SFPRR No. 80 water injection line. Gully is 2 to 12 feet wide and 5 to 15 feet deep. It goes underground in places. This leak was plugged off. Kevin McCord reported the spill to Denny Foust (NMOCD). This spill made it to the creek but in amounts too small to measure. It resulted in oil stained dirt, largely in a hidden and unaccessible area.

#### July 16, 1995

Kevin McCord, Dave Ball, and Denny Foust went to Miguel Creek and viewed spill from SFPRR No. 80. They decided that any oil that did make it to the creek was part of and was included in volumes already reported for the SFPRR No. 50 spill. A heavy rain started. We suspect a heavy rain this night raised the creek level 3 - 5 feet, washing away the dam and booms at the lower and of the spill. It also washed all the Sphagsorb in the creek away.

#### July 18, 1995

Stopped flowing flush water into creek from SFPRR No. 57. Another heavy rain flushed the creek again.

#### July 20, 1995

Kevin McCord and Denny Foust went to Miguel Creek. Water samples were collected from a point 500 feet upstream of the spill and 300 feet downstream from where the dam was constructed. ON SITE TECHNOLOGIES, LTD.

OFF: (505) 325-8786

LAB: (505) 325-5667

## AROMATIC VOLATILE ORGANICS

Attn: Tom I	McCarthy		Date:	7/24/95
Company: Robert L Bayless Oil			COC N	o.: 3146
Address: 368 Highway 170			Sample	No. 7418
City, State: Farmin	ngton, NM 87401		Job No	. <del>2-1000</del> 4-1221
Project Name:	Approx 500' up:	stream of origin of s	spill	
Project Location:	#1			
Sampled by:	КНМ	Date:	7/20/95 Time:	10:15
Analyzed by:	DC/GB	Date:	7/21/95	
Type of Sample:	Water			

#### Aromatic Volatile Organics

Component	Me Concer	easured htration ug/L	Detection Limit Concentration ug/L
Benzene		ND	0.2
Toluene		ND	0.2
Ethylbenzene		ND	0.2
m,p-Xylene		ND	0.2
o-Xylene		ND	0.2
	TOTAL	0.0 <i>ua/L</i>	

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: Date: 7/24/95

#### P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



LAB: (505) 325-5667

## AROMATIC VOLATILE ORGANICS

Attn:	Tom Mc	Carthy			Date:	7/24/95	
Company:	Company: Robert L Bayless Oil				COC No.:	3146	
Address: 368 Highway 170				Sample No.	7419		
City, State:	Farmingt	on, NM 87401			Job No.	2-1000	4-1221
Project Nam	e:	Approx 300' dow	nstream of fencel	ine (dam locat	ion)		
Project Loca	tion:	#2					
Sampled by:		КНМ	Date:	7/20/95	Time:	11:15	
Analyzed by	•	DC/GB	Date:	7/21/95			
Type of Sam	npie:	Water					

#### Aromatic Volatile Organics

	Measured	Detection Limit
Component	Concentration ug/L	Concentration ug/L
Benzene	ND	0.2
Toluene	ND	0.2
Ethylbenzene	ND	0.2
m,p-Xylene	ND	0.2
o-Xylene	ND	0.2
	$TOTAL 0.0 \mu g/L$	

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: 74/95

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LAB: (505) 325-5667

## QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 7/21/95

Internal QC No.:	0419-STD
Surrogate QC No.:	0420-STD

Reference Standard QC No.: 0355-STD

Method Blank	
Analytes in Blank	Amount

Average Amount of All Analytes In Blank <0.2 ppb

#### Calibration Check

Calibration Standards	Units of Measure	*True Value	Analyzed Value	% Diff	Limit
Benzene	ppb	20	20	1	15%
Toluene	ppb	20	20	1	15%
Ethylbenzene	ppb	20	19	4	15%
m,p-Xylene	ppb	40	40	0	15%
o-Xylene	ppb	20	19	4	15%

Analyte	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Benzene	124	121	(39-150)	2	20%
Toluene	121	117	(46-148)	2	20%
Ethylbenzene	118	114	(32-160)	2	20%
m,p-Xylene	123	118	(35-145)	3	20%
o-Xylene	113	109	(35-145)	2	20%

Surroga	Surrogate Recoveries						
Laboratory	S1	S2	<u>\$3</u>				
Identification	Percent	Percent	Percent				
	Recovered	Recovered	Recovered				
Limits	(70-130)						
7418-3146	101						
	· · · · · · · · · · · · · · · · · · ·						
·							

S1: Flourobenzene

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LAB: (505) 325-5667

### POLYNUCLEAR AROMATIC HYDROCARBONS

Attn:	Tom Mc	Carthy			Date:	4-Aug-95	
Company:	Robert L	Bayless Oil			Lab ID:	3146	
Address: 368 Highway 170				Sample ID:	7418		
City, State:	Farmingt	on, NM 87401			Job No.	<del>2-1000</del>	4-1221
Project Nam	ne:	Approx 500' Upst	ream of Origin o	f Spill			
Project Loca	ation:	#1					
Sampled by	:	КМ	Date:	20-Jul-95	Time:	10:15	
Analyzed by	/:	ILFC	Date:	31-Jul-95			
Sample Mat	rix:	Water					

#### Laboratory Analysis

	Measured	Detection Limit
Component	Concentration ug/L	Concentration ug/L
Acenaphthene	<1	1
Acenaphthylene	<1	1
Benzo (a) anthracene	< 1	1
Benzo (a) pyrene	< 1	1
Pyrene	<1	1
Benzo (b) fluoranthene	< 1	1
Benzo (ghi) perylene	<5	5
Benzo (k) flouranthene	< 1	1
Chrysene	< 1	1
Dibenzo (a,h) anthrace	<5	5
Flouranthene	< 1	1
Fluorene	< 1	1
Indeno (1,2,3-cd) pyre	<5	5
Naphthalene	< 1	1
Phenanthrene	< 1	1

Method - SW-846 EPA Method 8270 Semivolatile Organics by GC/MS

Approved by: 1 8/4/95 Date:

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



LAB: (505) 325-5667

#### POLYNUCLEAR AROMATIC HYDROCARBONS

Attn:	Tom McCar	thy			Date:	4-Aug-95	
Company:	Robert L Ba	yless Oil			Lab ID:	3146	
Address: 368 Highway 170				Sample ID:	7419		
City, State:	Farmington,	NM 87401			Job No.	<del>2-1000</del> 4-12	21
Project Nam	e:	Approx. 300'	Downstream of Fenceli	ine ( Dam Lo	cation )		
Project Loca	ition:	#2					
Sampled by	:	КМ	Date:	20-Jul-95	Time:	11:15	
Analyzed by	<i>י</i> :	ILFC	Date:	31-Jul-95			
Sample Mat	rix:	Water					

#### Laboratory Analysis

	Measured	Detection Limit
Component	Concentration ug/L	Concentration ug/L
Acenaphthene	<1	1
Acenaphthylene	<1	1
Benzo (a) anthracene	< 1	1
Benzo (a) pyrene	< 1	1
Pyrene	<1	1
Benzo (b) fluoranthene	< 1	1
Benzo (ghi) perylene	<5	5
Benzo (k) flouranthene	< 1	1
Chrysene	< 1	1
Dibenzo (a,h) anthrace	<5	5
Flouranthene	< 1	1
Fluorene	< 1	1
Indeno (1,2,3-cd) pyre	<5	5
Naphthalene	<1	1
Phenanthrene	< 1	1

Method - SW-846 EPA Method 8270 Semivolatile Organics by GC/MS

Approved by: )~4 Date: 8/4/95

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



LAB: (505) 325-5667

QUALITY ASSURANCE REPORT

for EPA Method 8100

Date Analyzed: 31-Jul-95

Analyzed by:

ILFC

Method Blank		Calibration Check
Component	Measured Concentration ug/L	% Diff.
Acenaphthene	<1	0%
Acenaphthylene	<1	1%
Benzo (a) anthracene	<1	1%
Benzo (a) pyrene	< 1	0%
Pyrene	<1	5%
Benzo (b) fluoranthene	<1	. 4%
Benzo (ghi) perylene	<5	5%
Benzo (k) flouranthene	<1	0%
Chrysene	< 1	1%
Dibenzo (a,h) anthrace	<5	0%
Flouranthene	< 1	1%
Fluorene	< 1	3%
Indeno (1,2,3-cd) pyre	<5	2%
Naphthalene	< 1	3%
Phenanthrene	< 1	0%

Spike Results

Analyte	1- Percent Recovered	2 - Percent Recovered	%RSD
Acenaphthene	78%	83%	4
Pyrene	100%	100%	0

NR: Not Reported

Surrogate Recoveries

	S1	S2	S3
Sample #	Percent	Percent	Percent
· · · · · · · · · · · · · · · · · · ·	Recovered	Recovered	Recovered
10138	81%	84%	115%

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. CORE LABORATORIES A N A L Y T I C A L R E P O R T Job Number: 952052 Prepared For: ONSITE TECHNOLOGIES LIMITED DAVE COX 657 W. MAPLE FARMINGTON, NM 87401 Date: 08/04/95

Signatyre

Name: Chip Meador

8/2/95 Date:

CORE LABORATORIES 1733 NORTH PADRE ISLAND DRIVE CORPUS CHRISTI, TX 78408

Title: Regional Manager



## LABORATORY TESTS RESULTS 08/04/95

#### CUSTOMER: ONSITE TECHNOLOGIES LIMITED

#### ATTN: DAVE COX

CLIENT I.D.....: #1 APPROX 500' UPSTREAM DATE SAMPLED.....: 07/20/95 TIME SAMPLED.....: 10:15 FORK DESCRIPTION...: #1 APPROX 500' UPSTREAM OF ORIGIN

JOB NUMBER: 952052

LABORATORY I.D...: 952052-0001 DATE RECEIVED....: 07/24/95 TIME RECEIVED....: 10:00 REMARKS.....

T

TEST DESCRIPTION	FINAL RESULT	LINITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
ICP scan for 23 elements		*1		23 element scan	07/25/95	JEM
Silver (Ag), total	<5	5	mg/L	Scan		
Aluminum (Al), total	98	5	mg/L	Scan		
Arsenic (As) total	<5	5	mg/L	Scan		
Barium (Ba) total	<5	5	mg/L	Scan		
Bervilium (Be) total	<5	5	mg/L	Scan	{	
Calcium (Ca) total	<100	100	mg/L	Scan		
Codmium (Cd) total	<5	5	mg/L	Scan		
Cobait (Co) total	<5	Ś	mg/L	Scan		
Cobart (CO), Cotar	5	5	mg/L	Scan	1	
Corport (Cu) total	5	5	mg/L	Scan		1
Loop (50) total	75	5	ma/L	Scan		
Mennesium (Mg) total	22	5	mg/i	Scan		
Magnesium (Mg), total	-5		mg/L	Scan		
Manganese (Mi), total	<5	5	ma/L	Scan		
Molybdenum (Mo), total	<100	100	mg/l	Scan		
Socium (Na), total	<5	5	mg/l	Scan		
Nickel (Ni), total	-5	5	img/i	Scan		
Lead (PD), total		5	mg/L	Scan		
Antimony (SD), total		5	mg/L	Scan	i	
Selenium (Se), total	5	5	mg/t	Scan		
The state of the s		5	mg/L	Scan		
Thallium (IL), total				Scan	ł	
Vanadium (V), total		5	mg/L	Scan		
Zinc (Zn), total			Ind. C	Scan		
1CP Metals Digest	Completed			EPA 200.7	07/24/95	EBS
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			CORPUS	CHRISTI, TX 78408	-	
			(512) 2	89-2673		
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## LABORATORY TESTS RESULTS 08/04/95

OB NUMBER: 952052

#### CUSTOMER: ONSITE TECHNOLOGIES LIMITED

ATTN: DAVE COX

CLIENT I.D.....: #2 APPROX 300' DOWNSTREAM CATE SAMPLED.....: 07/20/95 TIME SAMPLED.....: 11:15 WORK DESCRIPTION...: #2 APPROX 300' DOWNSTREAM OF FENCE LINE

TEST DESCRIPTION	FINAL RESULT	LIMITS/*DILUTION	UNITS OF MEASURE	TEST METHOD	DATE	TECHN
ICP scan for 23 elements		*1		23 element scan	07/25/95	JEM
Silver (Ag), total	<5	5	mg/kg	Scan		
Aluminum (Al), total	109	5	mg/kg	Scan		
Arsenic (As), total	<5	5	mg/kg	Scan	[	i
Barium (Ba), total	<5	5	mg/kg	Scan	1	
Bervilium (Be), total	<5	5	mg/kg	Scan		
Calcium (Ca), total	<100	100	mg/kg	Scan		
Cadmium (Cd) total	<5	5	mg/kg	Scan	1	:
Cobalt (Co) total	<5	5	mg/kg	Scan		
Chromium (Cr) total	<5	5	mg/kg	Scan		
Copper (Cu) total	<5	5	mg/kg	Scan		
Ison (Fe) total	76	5	mg/kg	Scan		
Homesium (Ma) total	26	5	ma/ka	Scan		
Magnesrum (Mg), total	5	5	mg/kg	Scan		
Malybdopum (No) total	<5	5	ma/ka	Scan		
Sodium (No), total	<100	100	ma/ka	Scan		
Nickol (Ni) total	<5	5	ma/ka	Scan		
Nickel (NI), total	5	5	mg/kg	Scan		
Lead (PD), total	-5	5	ma/ka	Scan	ľ	
Antimony (SD), total	5	5	mg/kg	Scan		
Selenium (Se), total			ma/ka	Scan		
The line (TI) total		5	ma/ka	Scan	[	
Inallium (IL), total		5		Scan		
vanadium (v), total			mg/kg	Scan		
Zinc (Zn), total		, ,	lina ra			
ICP Metals Digest	Completed			EPA 200.7	07/24/95	EBS
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			1733 NO	RTH PADRE ISLAND DRIV	E	
			CORPUS	CHRISTI, TX 78408		
			(512) 2	07-2013		

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LABORATORY I.D...: 952052-0002 DATE RECEIVED...: 07/24/95 TIME RECEIVED...: 10:00 REMARKS......



#### QUALITY ASSURANCE FOOTER

Cited Methods are obtained from the following documents :

EPA 600/2-79-020, Methods for the Analysis of Water and Wastes, March 1983. USEPA SW-846 3rd. Edition, November 1990 and July 1992 Update, Test Methods for Evaluating Solid Waste. EPA 600/2-78-054, Field and Laboratory Methods Applicable to Overburdens and Minesoils. Federal Register, July 1, 1992 (40 CFR Part 136). Standard Methods for the Examination of Water and Wastewater, 18th Ed. APHA, AWWA, WPCF.

Quality control acceptance criteria are method dependent.

All data reported on sample "as received" unless noted.

Sample IDs with a "-00" at the end indicate a blank spike or blank spike duplicate associated with the numbered sample. NC = Not Calculated due to value at or below detection limit.

NOTE: Data in QA report may differ from final results due to digestion and/or dilution of sample into analytical range. The "TIME ANALYZED" in the QA report refers to the start time of the analytical batch which may not reflect the actual time of each analysis. The "DATE ANALYZED" is the actual date of analysis.

The data in this report are within the limits of uncertainty specified in the referenced method unless otherwise indicated.

### SUBCONTRACTED LABORATORY LOCATIONS

For analyses performed by a subcontract laboratory, an "\*" and the designated laboratory code is indicated in the "TECHN" column of the laboratory test results report.

Core Laboratories :

Anaheim	*AN	Lake Charles	*LC
Aurora	*AU	Long Beach	*LB
Casper	*CA	Other Laboratories	*XX
Houston	*HP		

#### QUALITY ASSURANCE REPORT CODES

BLANKS*	REFERENCE STANDARDS	SPIKES AND DUPLICATES
MB = Method Blank	RS = Reference Standard	MS = Matrix Spike, BS = Blank Spike
RB = Reagent Blank	CC = Continuing Calib.	SS = Surrogate Spike, MD = Matrix Dup.
SB = Storage Blank	LCS = Laboratory Control Std.	PDS= Post Digested Spike
ICB = Initial Calib. Blank	ICV = Initial Calib. Verification	MSD= Matrix Spike Duplicate
CCB = Continuing Calib. Blank	CCV = Cont. Calib. Verification	PDD= Post Digested Duplicate

\*In the event that several different method blanks are analyzed, the blank type will be designated by the preparation method, i.e., ZHE, TCLP, 3010, 3050, etc.

1733 NORTH PADRE ISLAND DRIVE
CORPUS CHRISTI, TX 78408
(512) 289-2673

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Samplin #7.2	$ g \left[ contion: + \frac{1}{2} \right] = A_{1,\gamma_{1},\gamma_{2}} = S_{1,\gamma_{2}} \left[ v_{1,\gamma_{2}} \right] $				s J			ANALYSIS	REQUE	STED		
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