Bill

# BLYMYER & SONS

ENGINEERS, INC.

Soil & Groundwater Contamination Investigation

Final Report

Conducted at:

1750 Adams Avenue San Leandro, California

For:

MILNE TRUCK LINES 6689 Owens Drive Pleasanton, CA. 94566

July 15, 1987

COPY



#### BACKGROUND

Blymyer & Sons Engineers was retained by Milne Truck Lines to bring five underground storage tanks at Milne's San Leandro Facility into compliance with the City of San Leandro Underground Storage Tank Regulations. The schedule of tanks was as follows (See Figure 1 for layout):

- 3 12,000 gallon diesel tanks
- 1 12.000 gallon gasoline tank
- 1 800 gallon waste oil tank

The regulations allowed for nine monitoring alternatives for buried tanks, of which alternative number nine, in-tank level sensing, was chosen. Prior to installing the system, a precision tank test was ordered for all five tanks, to insure the integrity of the system before a monitoring system was installed.

#### PRECISION TESTING

Precision testing of the five underground tanks was scheduled for completion on July 29th, 1986. The testing method proposed. Hunter's "leak lokator" method, required that all five tanks be filled completely, up to within an inch of grade. Because the three diesel tanks were manifolded together, valves were installed in the syphon line to isolate each tank, so that fuel could be transferred from one tank to another for testing. The fuel tanks were filled without incident. However, the waste oil tank would not hold product during attempts to fill it. Product levels would continually drop 24 inches in 5 minutes and then hold at that level. Product was immediately removed when it was decided the tank could not be tested.

The other tanks were tested without incident and tested tight.

## LEAKING TANK INVESTIGATION

Because the underground storage tanks at the facility were fiberglass, the decision was made to uncover the waste oil tank to see if it could be repaired. A representative of the tank manufacturer, Xerxes Fiberglass Inc., inspected the tank on September 29, 1986. Upon uncovering the tank and cutting a hole on top for access, the manufacturer's representative performed a visual inspection of the inside wells of the tank. He reported that the bottom of the tank appeared to be ruptured or "pushed in". Damage appeared to have been caused by forcing the tank against the pea gravel during installation. At that point it was determined that the tank was unrepairable and would have to be removed.

The leaking tank was removed on December 4, 1986. After the tank was removed from the excavation, it was discovered that groundwater, soil and pea gravel underneath the tank had been contaminated with waste oil. Because of a periodically high water table (due to tidal fluctuations), holding material inside the tank, the contamination did not appear extensive. However, pea gravel that had underlain the tank was saturated with oily material, and free product was observed to be at least three inches thick on the water table. To define the extent of both soil and groundwater contamination, four soils bores were done and were converted into monitoring wells surrounding the tank excavation. (Figure 2) Pavlak and Associates performed the well installation and soil sampling, while Blaine Technical Services performed the water sampling. (See Appendices A and B).

As indicated by the laboratory analyses of both the soil samples and water samples, no levels of contamination were found. These results indicated that product lost from the leaking tank had been confined to the underground tank pit itself and had not migrated away from the immediate area.

#### SITE REMEDIATION

Based on the results of all investigatory work done at the site, it was determined that all contaminated soil and pea gravel, approximately 45 cubic yards, should be removed and disposed of at a Class I Facility. This conclusion was reached after several in place soil treatments, such as steam cleaning and leaching, were researched and dismissed as unfeasible. For the groundwater contamination it was decided to hire a waste oil recycler to pump out the excavation until only a sheen of material was left on the water table. This process was repeated twice in order to remove any waste oil that recharged into the excavation. The soil was removed and disposed of on April 6, 1987.

After the contaminated soil was removed from the excavation, the removal contractor noted that the excavation, in which standing water was visible, started to fill up with diesel fuel, which appeared to seep in from the direction of the standard storage tanks on the property. The contractor immediately notified Blymyer & Sons Engineers, who ordered that the tanks stop being used, so that they could immediately be tested. At the same time, a waste oil recycler was hired to pump out the excavation again. The depth of product in the excavation was approximately 8". Once the pumping was completed the excavation was monitored in order to see if diesel fuel recharged into the pit. Recharge

did occur but only to a product thickness of four inches. The process was repeated until only a sheen was left on the water table in the excavation. At that point the excavation was backfilled with pea gravel, and a twelve inch diameter, perforated sump was installed to a depth of 5 feet below the water table. The purpose of the sump was to recover any free product that may accumulate since the backfilling of the excavation. However, it is believed that most free product has been recovered from the water table. No product has appeared in any of the monitoring wells to this date.

#### ADDITIONAL PRECISION TESTING

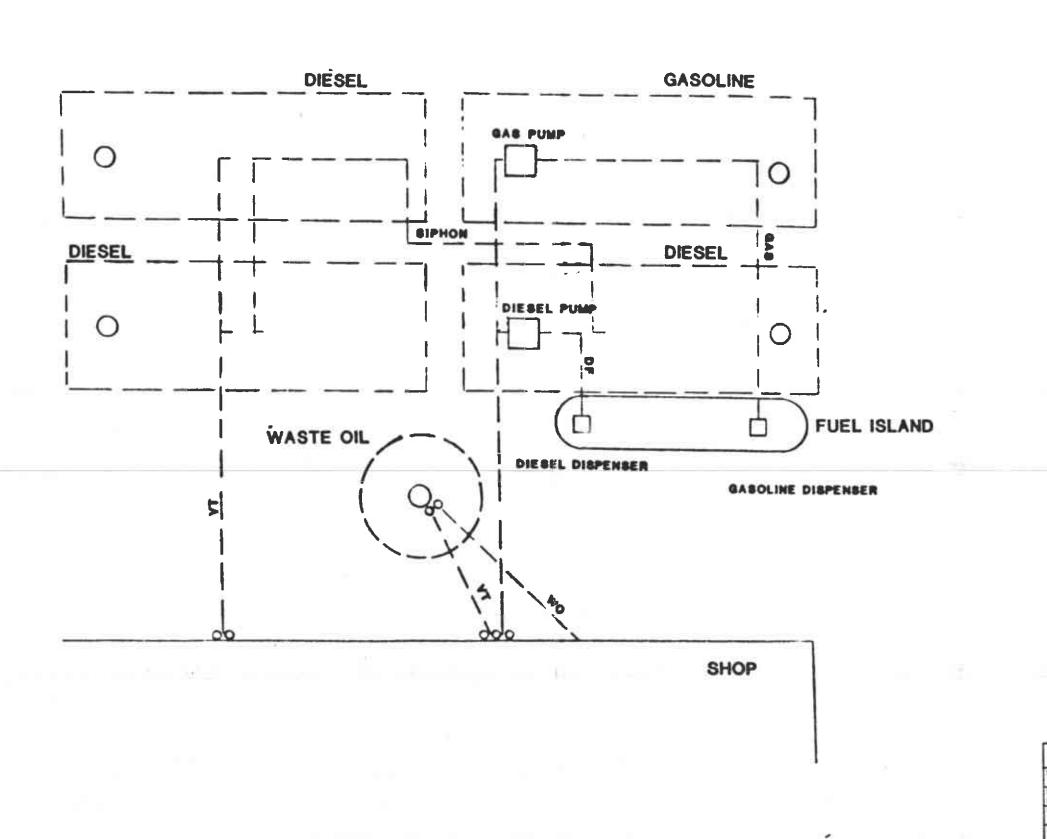
Once diesel was discovered in the open excavation, it was determined that the (3) 12,000 gallon diesel tanks at the site needed to be precision tested, despite the fact that they had tested tight in June 1986. All three tanks were scheduled for testing April 20, 1987, by Hunter-Environmental, the precision tank testing company. On that date one tank was certified tight. However, testing on the other two tanks indicated inconclusive results. These two tanks were scheduled for retesting on April 27, 1987. On April 27, 1987, the two remaining diesel tanks were certified tight.

#### CONCLUSION

Because all three diesel tanks tested tight, it is assumed that the source of the diesel fuel is not a current leak. Terminal personnel had reported that during past operations trucks have knocked over the diesel dispenser at the fuel island, damaging the product delivery line. Fuel may have escaped at this time and may have been held in the tank backfill, because of the

surrounding geology (predominantly clays). The excavation of the waste oil contaminated pea gravel may have disturbed the area and caused the pooled diesel to flow into the open excavation. This explanation is confirmed by the fact that the soil sampling and monitoring wells around the excavation have indicated no contamination at the site.

At the present time, no contamination problem exists at the site. Milne proposes to monitor the four monitoring wells and the 12" on a quarterly basis for one year, for diesel contamination, to certify that there is no problem at the site. An approved intank monitoring system has been installed in the remaining underground storage tanks, to insure that there will be no problems in the future.



1829 CLEM	R & SONS ENGINEERS, INC. ENTSTREET & ALAMEDA CA MISST
DRAWN -	MILNE TRUCK LINES
CHECKED	TITLE UNDERGROUND
APPROVED	TAMK LAYOUT
NC 8618	NO TR-1

**⊕**M-4 Pump Island Former Location of Waste Oil Tank -**⊕** M-3 S Excavation **⊕** M-2

Maintenance Building

Existing Building

# PAVLAK & Associates

#### GEOTECHNICAL / ENVIRONMENTAL CONSULTANTS

Project No. 86-1026M February 17, 1987

Milne Truck Lines C/O Blymer and Sons Engineers, Inc. 1829 Clement Avenue Alameda, CA 94501

Attention: Mr. Chris Falbo

Subject: Milne Truck Lines 1750 Adams Avenue

San Leandro, California

GROUNDWATER CONTAMINATION INVESTIGATION

#### Gentlemen:

In accordance with your authorization, we have completed an investigation of the soil and groundwater conditions in the vicinity of a waste oil tank excavation at the subject site. Four exploratory borings were drilled during the course of this investigation. They were all converted to groundwater monitoring wells.

The project site is located on the northwest side of Adams Avenue in the City of San Leandro, Alameda County California. It is currently utilized as a truck terminal and repair facility. The 800 gallon underground waste tank which was removed from the site was located between a maintenance building and a cluster of four 12,000 gallon underground fuel storage tanks, as shown on the Site Plan (Figure 1). Three of the fuel tanks contain diesel and the other stores gasoline. The ground surface in the area of investigation is generally flat and is paved with asphalt and concrete.

The subject waste oil tank was excavated and removed from the site on December 4, 1986. Contamination was detected in the excavation and the backfill material which overlay the tank. Field work performed during this phase of the investigation consisted of drilling four exploratory borings which were converted to groundwater monitoring wells.

#### Soil and Groundwater Conditions

The ground surface at all of the boring locations was paved with asphalt with an aggregate base. Native soils encountered consisted of interlayered sandy and silty clays, clayey gravel, and sandy silt from the ground surface to an average depth of 13 feet. At this point, saturated sandy clays, silty sands, and sandy silts were revealed. These saturated units were underlain at an average depth of 24 feet by silty clay which extended to the termination depth of the borings (25 feet). Groundwater was encountered at depths of 9 to 10½ feet below the existing pavement surface. Details of the soils encountered during the drilling operation are shown on the Boring Logs (Figures 2 through 5).

#### Field Investigation Procedures

The borings were drilled using a continuous flight, hollow-stem auger and were logged by a Certified Engineering Geologist from PAVLAK & Associates. Soil samples were obtained using a California Split Spoon Sampler. The soil samples for laboratory analysis were collected in brass liners, sealed, labeled, and placed on ice for transportation to the laboratory. During the drilling operation, the soil samples and auger cuttings were checked for odors and visual evidence indicative of petroleum product contamination. None were detected.

Each boring was converted to a groundwater monitoring well by the installation of a 2-inch diameter PVC casing with a locking cap. Well construction details are described on the Boring Logs (Figures 2 through 5).

Groundwater samples were collected for laboratory analysis from wells M-1, M-2, M-3, and M-4 by Blaine Tech Services of San Jose, California. The monitoring wells were purged by removing a minimum of five well-casing volumes of groundwater prior to sampling. After the wells were allowed to recharge, groundwater samples were collected. A pneumatic, non-aerating pump was utilized for the well development and sampling. The samples were placed in VOA bottles and transported on ice to the laboratory for analysis.

#### Laboratory Analysis

The laboratory testing program was directed toward a quantitative evaluation of the soil and groundwater quality in the area surrounding the former location of the waste oil tank. Analysis of the soil samples was performed by S & W Soil and Water Laboratory of Boulder Creek, California. The water samples were analyzed by Sequoia Analytical Laboratory of Redwood City, California. A copy of their laboratory report is included in Appendix B.

#### Laboratory Results

Soil Samples

Boring No.	Sample No.	Sample Depth (ft)	Waste Oil Concentrations (mg/l)
M-1	1-1	4	110
M-1	1-2	8	80
M-2	2-1	- 5	210
M-2	2-2	9	118
M-3	3-2	8	137
M-4	4-1	5	91
M-4	4-2	10	71

Project No. 86-1026M February 17, 1987

#### Laboratory Results

#### Water Samples

Well No.	Waste Oil Concentration (mg/L)
M-1	ND
M-2	ND
M-3	ND
M-4	ND
ND = None Detected	Limits of detection are 5 mg/L.

Waste oil was identified in each of the soil samples tested at concentrations ranging from 71 to 210 mg/L (parts per million). No waste oil was revealed in any of the water samples submitted for analysis.

#### Reporting Requirements

It is the responsibility of the property owner to forward a copy of this report to each of the following agencies:

San Leandro Fire Department 835 East 14th Street San Leandro, California 94577 ATTENTION: Inspector Joe Ferreira

Regional Water Quality Control Board San Francisco Bay Region 1111 Jackson Street Room 6040 Oakland, California 94607

If you have any questions or require additional information, please call our office at your convenience.

Yours truly,

Lawrence D. Pavlak, C.E.G. Principal Geologist Pavlak and Associates Former Location
of Waste Oil Tank

VD
er Monitoring Well
d Fuel Storage Tank
vilding

Seale: 1" = 80'

Figure No. 1 - SITE PLAN

Depth, ft.	Semple No.	Symbol	SOIL DESCRIPTION	Unified Soil Classification	No. 7 in the	Ou t. s. f.	Dry Density p.c.f.	S dry wt.	MISC. LAB RESULTS
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4- E-	1	141	Dark grey sla sancy CLAY, moist (Dark brown, very sancy)	CT					
8-	2	A.A.	Dark grey silty CLAY, moist	СН					
10-		47	(Tan mottling, wet)						
12 <u>-</u> 14 <u>-</u> 16 <u>-</u>		1111	Buff & olive green sandy CLAY, wet	CL					
18- 20-		1111	(Light brown)						
22- 24- 26-		747	Interlayered brown & grey silty CLAY, moist	CH					
1111			BOH 25 feet  Well Construction Details:  Set 25' of 2" diameter sch. 40  PVC Casing, lower 19' perforated.						
			Aquarium sand backfill to 5 cement seal to surface. Installed vault box and locking well cap.						
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PAVLAK & Associates

PEGURE NO. 3 - BORING LOS

Depth, n.	Semple No.	Symbol	SOIL DESCRIPTION	Utalfied Soil Classification	Blows, Yest 350 ft-15s.	Qu - L. S. f. Persobrameter	Dry Demaity p.c.f.	Moisture % dry set.	MISC. LAB RESULTS
2-4-6-8-	1	1444	A.C. & A.B.  Blue-grey very silty CLAY, moist	CH					
10 12 14 16		111111	**(Mottled olive green and grey, very moist)  Buff and olive green sandy CLAY, wet	CL					
18 20 22			(tan)  Lt brown fine sandy SILT, wet  Clive green and grey silty CLAY,	<b>BL</b>					
2€			bolt 25 feet  Well Construction Details: Set 25' of 2" diameter sch. 40  FVC casing, lower  Aquerium sand backfill to 5', cement seal to surface. Installed vault box and locking well cap.						
			vost och and rocking well cap.						

· underen	See 10		SOIL DESCRIPTION	Unified Sell	Blows/leet 350 ft-lbs.	Qu - L. S. f.	Dry Density p.c.f.	Moisture % dry wt.	MISC LAB RESUL
-		**	A.C. & A.B.	۲		-	F		
1		8	brown clayer mes. GFAVEL, moist	GC					
: -	i .	Щ	brown very sandy FILT, moist	Fil					
1	1	K	Dk. brown silty CLAY, moist	CH					
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t,	5	F	Glive green silty CLAY, moist, (Brown, minor fine GFAVEL)	C.F.					
4		Ĥ	BOF 28% feet						
7			Well Construction Details:						
1			Set 25' of 2" diameter, Sch. 40						
+			PVC casing, lower 19' perforated. Advantum sand backfill to 5'.						
1			Terest seal to surface. Installed vault box and looking well cap.						
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Soil Fertility - Plant Tissue Pollution and Residue Control Drinking Water

14072 W. Park Avenue Boulder Creek, CA 95006

(408) 338-3053

Analysis Requested

#### Laboratory Report

Procedure	Date Analyzed
Sample Site  EGI Drilling (Project 8618)  Blymer & Sons Engineers  at Milne Trucking Co.  8618	Date Received 1/5/87
Blaine Tech Services P. O. Box 5745 San Jose, CA. 95150	1/13/87
Client	Report Date

Soil/Waste Oil		EPA 3550		1/11/87	
S&W Ref. #	Client Ref. #	Matrix/Analysis	Concentration (ppm)	Detection Limit (ppm)	•
005B7-11	4'	Soil/Waste Oil	110	20 ppm	
005B7-12	8,	Soil/Waste Oil	80	20 ppm	
005B7-13	5'	Soil/Waste Oil	210	20 ppm	
005B7-14	91	Soil/Waste Oil	118	20 ppm	
005B7-15	81	Soil/Waste Oil	137	20 ppm	
005B7-16	5'	Soil/Waste Oil	91	20 ppm	
005B7-17	10'	Soil/Waste Oil	71	20 ppm	

Analyst Signature



Blaine Tech Services P.O. Box 5745 San Jose, CA 95150 Attn: Richard Blaine Date Sampled: 01/27/87 Date Received: 01/30/87 Date Reported: 02/03/87

Sample Number	Sample Description  BTS #87027F1, Blymer &  Sons Proj. at 1750 Adams  Avenue in San Leandro	Oil & Grease mg/L
7011585	Water MW-1	< 5
7011586	Water MW-2	₹ 5
7011587	Water MW-3	₹ 5
7011588	Water MW-4	< 5

SEQUOIA ANALYTICAL LABORATORY

Arthur G. Burton Laboratory Director

sls

February 3, 1987

Blymer & Sons Engineers 1829 Clement Avenue Alameda, CA 94501

Attention: Chris Falbo

Re: Sampling of wells at

1750 Adams Avenue San Leandro, CA on January 27, 1987

#### SAMPLING REPORT

Sampling was performed in accordance with approved methodology which included repeated evacuation of the well. Samples were collected in containers appropriate for the analysis to be performed and were chilled during transport to the laboratory. Chain of custody records were maintained.

Samples were drawn from the following wells:

Well Designation	Well Diameter	Depth to Water Surface	Well Depth
Mw-1	2**	6.14*	25.0*
MW-2	2**	6.67'	25.01
MW-3	2**	5.90"	25.0
MW-4	2*1	5.93'	25.01

Data collection during well evacuation:

Well Designation	Electrical Conductivity (micromhos/cm)	<u>pH</u>	Volume purged (gallons)
MW-1	1,100	6.7	17.0
MW-2			15.0
MW-3	1,200	7.0	18.0
MW-4	1,150	6.8	18.0

Evacuation and sample collection were accomplished with a stainless steel and teflon bladder pump. Samples obtained from these wells were delivered to Sequoia Analytical Laboratory to be tested for waste oil.

#### Reportage

Submission to the Regional Water Quality Control Board and the Fire Department should include copies of both the sampling report and the laboratory report. A cover letter from the responsible corporate representative should be attached. Forwarding a package of this sort will enable the regulatory agencies to note your compliance and update their files. The following addresses have been listed here for your convenience:

Water Quality Control Board San Francisco Bay Region 1111 Jackson Street Room 6040 Oakland, CA 94607 ATTN: Tom Callaghan

City of San Leandro Fire Department 835 East 14th Street San Leandro, CA 94577 ATTN: Inspector Joe Ferreira

If I can be of any further assistance, please call.

Richard C. Blaine

RCb/tls

Ppt 87027F1 1-27-87 Blymer & Sons, 1750 Adams, San Leandro page 2 of 2

Sea 5-13-8



# BLAINE TECH SERVICES

P O BOX 5745 SAN JOSE CA 951511 (408) 723-3974

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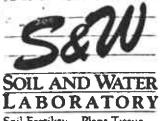
Blaine Tech Services P.O. Box 5745 San Jose, CA 95150 Attn: Richard Blaine Date Sampled: 01/27/87 Date Received: 01/30/87 Date Reported: 02/03/87

Sample Number	Sample Description BTS #87027F1, Blymer & Sons Proj. at 1750 Adams Avenue in San Leandro	oil & Grease mg/L
7011585	Water MW-1	< 5
7011586	Water MW-2	< 5
7011587	Water MW-3	< 5
7011588	Water MW-4	< 5

SEQUOIA ANALYTICAL LABORATORY.

Arthur G. Burton Laboratory Director

sls



Soil Fertility—Plant Tissue Pollution and Residue Control Drinking Water

14072 W. Park Avenue Boulder Creek, CA 95006

(408) 338-3053

Analysis Requested

Soil/Waste Oil

#### Laboratory Report

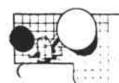
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Blymer & Sons Engineers at Milne Trucking Co. 8618	
EGI Drilling (Project 8618)	1/5/87
Sample Site	Date Received
San Jose, CA. 95150	
P. O. Box 5745	
Blaine Tech Services	1/13/87
Client	Report Date

1/11/87

S&W Ref. #	Client Ref. #	Matrix/Analysis	Concentration (ppm)	Detection Limit (ppm)
005B7-11	4'	Soil/Waste Oil	110	20 ррш
005B7-12	81	Soil/Waste Oil	В <b>о</b>	20 ppm
005B7-13	5'	Soil/Waste Oil	210	20 ppm
005B7-14	91	Soil/Waste Oil	1 18	20 ppm
005B7-15	81	Soil/Waste Oil	1 37	20 ppm
005B7-16	5'	Soil/Waste Oil	91	20 ppm
005B7-17	10'	Soil/Waste Oil	71	20 ppm

**EPA 3550** 

Analyst Signature R. H.



### BLAIN: TECH SERVICES

P O BOX 5745 SAN JOSE CA 95150 (408) 723-3974

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TINAL REPORT

C. Sallo

TEST

8618 leak,lokator...

DATE OF TEST CONTRACT NUMBER

PRODUCT

CONCLUSION/

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引流的

RESULTS

16-453-1800 800-523-4370 1621 202930311 CUSTOMER MINCTLY KING AUG 1986 NAME

BLYMYER & SEN ODRESS san Leandro 1750 adams ave TEST RESULTS SUMMARY LEAK LOKATOR RESULTS\* TANK SIZE SYSTEM WATER ALA PRODUCT GALLONS DIA/MATE CONCLUSION RECOMMEN

CL CODE ... 42 011 11780 147 .023 light FG . 15 lead DIESELMI 1023 11780 13075 0 tight FG

THER INFORMATION

SYSTEM

PRODUCT LINES - HYDROSTATIC PRESSURE TEST RESULTS PRODUCT TYPE OF PUMP

0.	PRODUCT	REMOTE	SUCTION	APPLIED	APPLIED	CC.2	GPH	RESULT
1	W Lead	JES XCT		50	10	20		Tight
1500	Diesel	superset .		17	10			Tight
92-6		7						
								4

NOTE: On suction systems, NEVER put more than 15 psi on any pump system.

OTHER CONTRACTORS, OFFICIALS, CUSTOMER REPRESENTATIVES PRESENT

					DET	AIL OF TES	T RESULTS					-
		L	TEST	TEST TI		LEAK	RATE	COMPENSATION		CEAR	ALC:	796
ō.	PRODUCT	TEST	TEST LEVEL (INCHES)	CLOCK	DURATION HRSMIN.	CC/DIV	CC/MIN	Δ',	CC/MIN	CC/MIN	QPH.	
		工	147	1902	IL MA	11452	122219	7,036	50.20	41.457	4.033	W
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LEVEL - INCHES FROM TANK BOTTOM TO TEST LEVEL

ALR - ABSOLUTE LEAK RATE (MEASURED LEAK RATE - TEMPERATURE COMPENSATION) IN GALLONS PER HOUR CONCLUSION - NFPA 329 CRITERION OF ± 0.05 GPH IS USED TO CERTIFY TIGHTNESS

CERTIFICATION

451

This is to certify that the above described tank systems were tested, using the HUNTER ENVIRONMENTAL SERVICES, INC. LEAK LOKATOR according to all standard operating procedures. These indicated as tight at full system meet the criterion established by the National Fire Protection Association Pamphiet 329 for Precision Testing. CERTIFIED BY

1522

SANSON ...

	TESTS CONDUCTED BY	* 1. 19 CENTIFICOUR	-		
TEST VAN NO.	TANK TESTING SPECIALIST	SIGNATURE & BY	7-28-864		
un.	TANK TESTING SPECIALISY	Valent Bon TEAM MONO	9世纪中小学院		

CUSTOMER: MILNE TRUCKING OTY: SAN LEANORO

I.D. # 1750 ADAMS AVE STATE: CALIFORNIA

WEATHER TIME TEMPERATURE COMMENTS

WEATHER

BEFORE TEST - (LOVOY OS/S G. COMMENTS

AFTER TEST - 1700 (9° C/EAR

SCHEMATIC:

CARAGE

CARAG

	PRODUCT/TANK NO.	UNLE	ADII	DIE	LEL'/E	UMSEL.	2/3	DIESEL		POLE O	-	
사	LEVEL	43	Gauge	129	Gauge	E9 44	Gauge	Fill	Gauge	3700	Gauge	
FOR	GALLONS , 12X	Full		Kull		3/28	8 1 1	3283	G	31.		
BEFORE DELIVERY	WATER	.75	Lu	0		0	a see a	0.,			11 15	
	TOP OF RISER	125		124	1	1345	1 12	132	S	96	1 159	
):::::::::::::::::::::::::::::::::::::	GRADE	134	3 F	130.5	7	136		136	100	101	0	
	DROP TUBE	YES	^	NO		NO		NO	E-1	MO		
	CAPACITY, GALLONS	11.08	30	11,78	30	11786		1170	10	800		
	DIAMETER, INCHES	92	1 18	92"	92"		z' .	91	200	64		
	MATERIAL	L F6		F6 F.6.			F.C	<u>.                                    </u>	57			
	PUMP TYPE			RJ		Noper		to bomb.		No purp		
	TYPE OF COVER	OVER CEMENT		CEMENT		CEMENT		CAMENT		CEMENT		
										-	4.00	
	SIPHON IL 100	N	,	Y55		VE	5	YES		100	6 8	
	TANK OPENINGS	1			1,		11		1	-	1	
	EXTRACTORS HE	0	(0.57)	. 0	. 0		1215	1 100	A	J. D. MIT	Dec	
1.	TYPE	P-11	i Armide	PT	J***	1	-/-	P-1		put	Open to a settler	
H 4	VENT CONFIGURATION	4. 14.	(70)			4,5 (3)	10.1-15	1	čio	-6387	1.16	
VAPOR	P-V VENT VALVE TYPE	_	/ 1/8		/	11.677	/	+ -	AR THE	-	LO CAMP	
, REC		1	195	7	100	· 数二	2:	11.50	M.J	TA	all th	

\*Date obtained from Destation | LL Charts | Other

2 3

DATE: Tuly 27, 1996

CUSTOMER: MILNE TRUCKING

CITY: \_

SAN CEANNE

WEATHER TIME TEMPERATURE COMMENTS

BEFORE TEST - 0 600 57° OUTCOLT

SCHEMATIC:

AFTER TEST -

PLEASE REFER to Schematic #1 FOR TANK LOCATION

1/30

	PRODUCT/TANK NO.	DIESE ( \$/3	A18281#3 /4			
BEFORE DELIVERY	LEVEL	Fill Gauge	Fill Gauge	Fill Gauge	Fill Gauge	Fill Gauge
FO.	GALLONS	Full .	7681			, for
8E DEL	WATER	0	0			
	TOP OF RISER	13/15	13:		·	1227
	GRADE	136	136			140 0 (1
	DROP TUBE	NO	NO			1.51
	CAPACITY, GALLONS	11780	11780			
	DIAMETER, INCHES	72	92 -			Jeff et au
	MATERIAL 4	F.6.	F. G.		2011511	S-120 1 1/2
	PUMP TYPE	No Part	No fany		511961	60° a
	TYPE OF COVER	CEMENT	CEMENT			
	AGE OF TANK		-			140 10 496
	SIPHON	VES	VES	0	41.545	setta (n. 19
n i	TANK OPENINGS	1	1,			19/4/1-19
	EXTRACTORS See	230 m - 1 CR	0	1 - 1 - 1	in the land to	a supplementation
-				trigg, V		
	TYPE	P-1.	1-1	FTKSF4,U N		The state of the s
ERY	VENT CONFIGURATION				I - LANG	26.3)
8 8	P-V VENT VALVE TYPE	/			1.159.05	PARTY OF LA
NECOVERY	467	7250 82	Ar.	p)21-6	1270	· 通知 18

REPLACEMENT	PARIS:

PART #

DESCRIPTION H"CAREET

QUANTITY

PHICE

ADDITIONAL CHARGES: Coumpowers, overtime, etc.) 2100 gallots gumpever

Diesel #3

\*Data obtained from Station DLL Charts

CI Other

ROSA C





DATE OF TEST

CANT	ON, OH 44702 53-1800 800-8	523-4370		1	RE	SULTS		LONTRAC	. r regional in			_
	OMER	(Observe et	lies can	27.27	Character (C)	3.2						
LOC	ATION - IDENT	IFICATION N	UMBER,			NAME						
ADD	RESS	) a	7.0			CITY	_	1	STATE			
1					TEST DESI	JLTS SUMM	ARV			LEARL	ONLY	A US
-	SYSTEM	TANK	CSIZE			LOKATOR R				17777	CL CO	o€
	PRODUCT	GALLONS	DIA/MATL	WATER	INCHES	ALR GPH	CONCLUSION	RECOMMENDAT	IONS	1651	TANK	5 Y \$
1	Divel	14.12.	9100	· ;+	1.1	1.12	ı.	Family 1	W/ 32		1.	
4	المندالا	D. 00	11/10:	۷٠	1.1	7.3.3	1					
uî.	المتانية	154:00	WF.6	6+	13	! =li_	2				2	
отн	ER INFORMATI	ON								Ш		
	3		11.				-	•				_
1	t Dis	- ( - (C A	1 11	100	11-04	(						
	3074 3090170		PRODU	CT LINES	- HYDROS	TATIC PRES	SSURF TE	ST RESULTS				
	SYSTEM	1	TYPE OF	PUMP			INUTES	PRODUCT	PRODUCT LOSS	CONC		
NO.	PRODUC			SUCTION	APPLI	ED A	PPLIED	CC'S	GPH	R	ESUL	1
	1.4	. I*	1.		_		1	-	1			
_										-		
		1	1									

NOTE: On suction systems, NEVER put more than 15 psi on any pump system.

OTHER CONTRACTORS, OFFICIALS, CUSTOMER REPRESENTATIVES PRESENT

DETAIL OF TEST RESULTS

	Section tree	Name of	TEST	TI	ME	LEAK	RATE	1 E MPE	MATUHE	ABSO	RATE	TEST
NO.	PRODUCT	TEST	TEST LEVEL (INCHES)	CLOCH	DURATION HRS MIN.	CC/DIV	CC/MIN	Δ * F	CC/MIN	CC/MIN	GPH	V or N
			7.11		22100	. Da i	7	1.14	1.11	Vacal	11.	-
9	will know	-	12	1270	Finn	2.20	110	1:01	11	1-1		+-
.1	1.1:4	1	737	.7.	Z. Data	_,,_	170.7	1.00	13.77	- A. IA.	1	E
1	Luins	2	ALC:	100	-Mina	- 50	72.14	-,01	1.00	15.77	1. 4	=
ند	De											

\* LEVEL -- INCHES FROM TANK BOTTOM TO TEST LEVEL

ALR - ABSOLUTE LEAK RATE (MEASURED LEAK RATE - TEMPERATURE COMPENSATION) IN GALLONS PER HOUR

CONCLUSION - NFPA 329 CRITERION OF ± 0.05 GPH IS USED TO CERTIFY TIGHTNESS

This is to certify that the above described tank systems were tested, using the HUNTER ENVIRONMENTAL CERTIFICATION

SERVICES, INC. LEAK LOKATOR according to all standard operating procedures. Those indicated as tight at full system meet the criterion established by the National Fire Protection Association Pamphlet 329 for Precision Testing.

CERTIFIED BY **TESTS CONDUCTED BY** DATE SIGNATURE TEST VAN NO. TANK TESTING SPECIALIST 1 - 12,5 TITLE TANK TESTING SPECIALIST

Page 2

DATE: 001.1 20,1987

I.D. # .				STATE:CC		
	WEATHER "	TIME	TEMPERA	TURE	COMMENT	8
	E TEST -	- 6				
AFTER	TEST -					. <del></del>
SCHEM	IATIC:		Minlae	Trucking		(if
MY			DO NEW	ره سيهالدورينال	00	- distributes :
	10 A A A A A A A A A A A A A A A A A A A	[UNLID	lace		"Lybr	144
Tru	icking	(D, 7#12	had.	7#2	2	1
12		Diese\	00	Piesel	€	
	6	0	Para 1		Đ .	3
	10.4	THA		Diesel		
		,7	M)	7# 3		
					*	
٠.	·   17	T. C.	4			
- 2	· 3					
_	185 0	10: 174	Owenita	Dene!		
>	- PRODUCT/TANK-NO.	Fill Gauge	Fill Gauge	Fill Gauge	Fill Gauge	Fill Gaug
BEFORE	LEVEL		134	121		
BEFORE	GALLONS	0	0	0		
- 0		186	133	138		
_	TOP OF RISER	130	125	136		١,
_	GRADE	No	100	No		
	CAPACITY, GALLONS					44.64
_	DIAMETER, INCHES	91	91	91		7.1
	MATERIAL	Fiberghes		Fibergla		
	PUMP TYPE	V. 1				-
	TYPE OF COVER	Concrete	Concrete	Concret	-	
	AGE OF TANK	7	'?'	9		7.2
- 1/1	SIPHON	750	yes '	7 15	1	**
	TANK OPENINGS	1		<u> </u>	1	7
	EXTRACTORS	NO				
1	TYPE	-	t it i	in the second		-18-00 11 ·
OR VERY	VENT CONFIGURATION	- Andrewson and the Control of the C	Ralmost	Pahuce!		
VAPOR	P-V VENT VALVE TY					
, ec	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
REPL	ACEMENT PARTS:	PART # A 31.00	DESCRIPTIO	ON THE STATE OF	QUANTITY	PRICE
	100					
	7.70					

Milne Trucking 1750: Adoms Ave unleanded CCL

April 20,187

All Tanks have E.R.M. Monitoring Cystem Installed

All Diesel Tanks Manifolded with Shut off Values

From Tank 2 and T#3+T#1 Tank 2 had Full system Leak

TESTED Tight at Tank Top. The product Level For Tabs

Were at 881 Values Shut off. Tested T1 again AT Full system

with Tats Full and Leaked + . Unlue From Tank 1 Tots

Not Functioning properly. Recommend Divorcing systems

at gate value or installing New gate values, Totes Tank

Individually. While Filling T1 Tats will Not Fill.

Remote pump is on T1. No Tank Top Test Conducted

on T3 due To Time Constraints

UNcover & investigate

TINAL REPORT

TEST "

RESULTS

leak,lokator....

115 DEWALT AVENUE, N.W.

216-453-1800	800-523-4370	negoe i
CUSTOMER	. v	,

LOCATION - IDENTIFICATION NUMBER NAME STATE CITY ADDRESS Adams Are 200 1750 TEST RESULTS SUMMARY LEAK LOKATOR RESULTS\* TANK SIZE CONCL. CODE SYSTEM WATER TEST TANK SYS GALLONS DIAMATL CONCLUSION RECOMMENDATIONS PRODUCT 1445 11786 D ,027 1 70 Light 11780 1445 0 OTHER INFORMATION

PRODUCT LINES - HYDROSTATIC PRESSURE TEST RESULTS

	SYSTEM	TYPE	OF PUMP	# APPLIED	MINUTES	PRODUCT	PRODUCT LOSS GPH	CONCLUSION/
NO.	PRODUCT	REMOTE	SUCTION		APPLIED	CC.22		RESULT
3	DEPI #3			AllA				
4	Desci #4		77.	NA				
				-	1			-
	1	1	1					

NQTE: On suction systems, NEVER put more than 15 psi on any pump system.

OTHER CONTRACTORS, OFFICIALS, CUSTOMER REPRESENTATIVES PRESENT

DETAIL OF TEST RESULTS

		L	TEST	т	IME	LEAK	RATE	TEMP	INSATION	LEAF	HATE	JES
NO.	PRODUCT	TEST	LEVEL (INCHES)	CLOCK	DURATION HRS. MIN.	CC/DIV	CC/MIN	Δ * F	CC/MIN	CC/MIN	GPH	-
	ير.	1	148.5	6710	10 MIN	10004	+35,07	1109	+3674	7.472	-027	W
3	Diexi		144.5	C945	31 min	1.101	+ 4,998	+,013	70.067	-1.119	018	N
4	Dicol #5											+
												-
-												=
1.0		-										

\* LEVEL - INCHES FROM TANK BOTTOM TO TEST LEVEL

ALR - ABSOLUTE LEAK RATE (MEASURED LEAK-MATE - TEMPERATURE COMPENSATION) IN GALLONS PER HOUR CONCLUSION - NFPA 329 CRITERION OF ±0.05 GPH IS USED TO CERTIFY TIGHTNESS

CERTIFICATION

This is to certify that the above described tank systems were tested, using the HUNTER ENVIRONMENTAL SERVICES, INC. LEAK LOKATOR according to all standard operating procedures. Those indicated as tight at full system meet the criterion established by the National Fire Protection Association Pamphlet 329 for Precision Testing.

	TESTS CONDUCTED BY		CERTIFIED BY	
TEST VAN NO	OL DUCCOO	SIGNATURE	A 1/-1 -	7-21-NO
11.17	TANK TESTING SPECIALIST	NAME / // · · · · · · · · · · · · · · · · ·	TITLE TO SELL	V1.16.

DATE: JULY 283986

CISTOMER MYCHE TRUCKING

N. SAN LEANORD

CITY DAN LE ANDES

WEATHER	and the second s		WIT AND STORY COMMENTS OF THE STORY
EFORE TEST - CLOUDY	0815	10 16 2 miles	Cloudy
FTER TEST -> 14 - A THE CASE	1700	7.16 90000 100	CLEAR
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	10000000000000000000000000000000000000		
	John Charles V	000-VENS-00	
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La	deser	2016	
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	(0 ) 724		4 92" 0
2	The God		OFFIELD.
<b>在在大型工作</b>	D. Took		<b>有关:资料为一个方次</b>
The four to state of the same	<b>国际</b> 发现中央学		STATE OF THE STATE

A SANK	PRODUCT/TANK NO.	DNLEADI	DIESEL /2	Dieselez /5	DIRSEL = 2/4	WATER 15
a E	LEVEL	Gouge Gouge	Fill Gauge	Fill Gauge	Fill Gauge	37 Gauge
Z Z	GALLONS	FIFH CON	Full	3/28	3283	7
SEL SE	WATERISTYPHE	かっち	0	200	0 10	136
的办件	TOP OF RISER	125	124	1345	132	96
1.00	BRADE		130.5	136	130	101
Sec. 5	DROP TUBE	Ye'S	NO	NO	No	1500
	CAPACITY, GALLONS		11,780	11786	11750	* 500
医直锁	DIAMETER, INCHES	92	192	42	92	NST.
AND DE	MATERIAL	F6	FG	£.6.	F.C.	
E part	PUMP TYPE		R2	No Par	Per par	CENTAT
Elfrei	TYPE OF COVER	CEMENT	CEMENT	CEACIT	CEMPAL	
94°S	AGE OF TANK		BANKS STATE OF THE STATE OF	Sales Laboratory	19 12 12 12 12 12 12 12 12 12 12 12 12 12	Tress .
學學院外	SIPHON	No	Y55	And And	12	74/04/4/146
1.00	TANK OPENINGS	Now of our or other transfer.	1828 AND 18 1 1956	William Committee	ANY CHICATON	FERSHOOM STATE
de desir	EXTRACTORS	Haller Broke Problem	21 ELECTION 12 17 17 17 1	प्रदेश महिन्द्र भागा है	* S.J. Marin.	Transfer of the P
100	The same of the sa	and the second	die Bank was were	Course Sales	the Patricker	in profit in the same
1	VENT CONFIGURATION	(大学の大学を)	<b>经</b> 财产或一个营	2000年1000年100日	<b>本学科教科社</b> 18	A THE PART OF
22	P-V VENT VALVE TYPE	456	THE MENT OF	De Water	Section 19	一种 一种
\$ĕ		In the second second	Many Lowers	ACT OF THE PERSON OF	* **	
W	<b>图的</b> 企业设置	一世紀の大学でありが	到的"学"。22、李明是	3000 AMBER 11 11 11	(中心は世界の後の一般	生物品种的企业的的

Detainstrained from OrStation | D LL Charts D Other

TANK AND LOCATION DATA

QUANTITY

A service of the serv

MENGE.

PALIMENIA STATE:

WEATHER " COMMENTS TIME TEMPERATURE BEFORE TEST -N. 1600 -.. -570:00 CUTTONIT 670 AFTER TEST -1130 Clear + Sunny

SCHEMATIC:

PLEME REFER to Schematic & 1 For Jank Coration

PRODUCT/TANK NO. DIEST ( 1/2 DIEST ) LEVEL HE HE SELECT Fill & GALLONS FAIL The Head 9481 0 TOP OF RISER 150 136 GRADE V DROP TUBE wo . CAPACITY, GALLONS # 2/7/0 11780 DIAMETER, INCHES 92 MATERIAL PROPERTY CO. F. 6. PUMP TYPE TYPE OF COVER CEMEU AGE OF TANK 中央公理公司 and the second SIPHON TANK OPENINGS EXTRACTORS 東京市 国际 907:225 7676 Helo no man Commence of the entering the state of the service o hery and a school VENT CONFIGURATION PV VENT VALVE TYPE

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ADDITIONAL CHA	RGESS COMPANY		11	o allow o	MERONER	Copiel	中によるから
<b>ランスの世界の大学を表現</b>	1	4. 47	A 1975 P	7.50	A	· · · · · · · · · · · · · · · · · · ·	In Paris
ADDITIONAL CHA	The second second	TOTAL TOTAL		- 466		1 1000	0.7960

DESCRIPTION

16-4	DEWALT AVENUE E 400 FON, OH 44702 53-1800 800- FOMER MIL'D	523-43	Tax	k.	CE 27.823	ROF	LESUL!	0 X		_	CONTRACT		76/ /**	
coc	ATION - IOENT	FICAT	TION NUM	A SA	Harry Tolk	X	NA	ME, Ing	100			74-		
100	RESS	1	- 444	<b>特甲基子</b>	1. 1. 2	y, lin	CIT		,_	1		STATE		
_	DO HO	am	STA	10		TEST RE	SULTS S	SOLIN	Len	N/A	0	C	LEAR LORA	ATOR
	PRODUCT	GAI	- TANK S	DIAMATI	WATER	LEVEL		OR RESUL	-	RECO	MMENDATIO	NS	TEST YAM	
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_	SYSTEM			TYPE OF	SUCTION		#	MINUT		L	OSS C'S	LOSS	CONCLU	
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_	EA-CONTRACTO						PRESENT		13.	_		-		
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	SYSTEM	TEST	TENT		TIME	74	LEAK		_	*	CC/MIN	CC/MIN	GPH	- ji
10.	PRODUCT	NO.	(INCHES	1 St. 25	And of the last of	M/M 5	772	+4.900		12	+41087		1450	#
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6.	VEL - INCHES		DATE OF	SASH HOUSE	TEAM BATE	_TEMPER	LATURE	COMPENSAT	NON) IN	GALL	ONS PER HO	UR	100	
LE	-		O CRITER	NON OF ±	0.05 GPH 18 I	SED TO C	ERTIPY	righ <b>tness</b>	The Tar A	100	LUMPTER		-	_
LE	M - ABSOLUTE NCLUSION - N	PPA 32		-						no the	HUNTER	MINIMIN	ERIAL I	
LE	-	4.5	his its to c	ertify the	AK LOKAT									ull
LE	M - ABSOLUTE NCLUSION - N	S S	No is to c ERVICE!	arely the S, ING, LE st the orig		OR accord				esocia		let 329 for P		ull iting.

Page 2

DATE: 101 37,1987

73 to 1 Ys

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I.D. #				STATE: _	La.				
1500000	WEATHER	TIME	TEMPER	ATURE			COMMENT	s	
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	PRODUCT/TANK NO.	t1 Diesel	th Diesel	1.3 L	IL IL	5.0	T.C.	Fill	
RE ERY	LEVEL	Fill Gauge	Fill Gauge	Fill	Gauge	Fill	Gauge	Pill	Gau
BEFORE DELIVERY	GALLONS								
8 8	WATER	~		=					
• 1	TOP OF RISER	127		17.			L		
	GRADE	129		125					
	DROP TUBE	Yes		yes					
	CAPACITY, GALLONS	12,000		12.0	seo				
	DIAMETER, INCHES	7.		14					
-	MATERIAL	Longhia		Libus					
	PUMP TYPE	Kenzte		Rumu					
	TYPE OF COVER	centrela		Cope	f + 1 ·			-	
_	AGE OF TANK			1				_	_
_	SIPHON	γ <u>ι:</u>		115	-	-			
_	TANK OPENINGS			iva		-			
	EXTRACTORS	N <sub>E</sub>	3	143					
	TYPE								
¥	VENT CONFIGURATION	Balance		Ealo	ra.				
OVE	P-V VENT VALVE TYPE								
RECOVERY								4	
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			ICU JAL	LOC	In !			110	
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ווטטג	FIONAL CHARGES: (pur	npovers, overcime, atc	131						(5)