

MILLER ENVIRONMENTAL COMPANY

385 PITTSBURG AVENUE
RICHMOND, CALIFORNIA 94801
(415) 233-9068
FAX (415) 233-2509

November 21, 1990

Department of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, CA 94621

Attn: Mr. Gil Wistar

Re: California Linen Rental Co., 989 41st Street,
Oakland, CA (MEC # 90-1031)

Dear Mr. Wistar:

Enclosed are the laboratory results for the third quarterly sampling interval for the above-mentioned site.

Prior to well sampling, a visual observation for floating product was performed using a clear teflon bailer. No product was observed in any of the monitoring wells. For ease of reference, a summary of laboratory results is presented below in Table 1:

TABLE 1
SUMMARY OF LABORATORY RESULTS

Well #	Date	TPH gas	TPH dsl	TPH w.o.	B	T	E	X
MW1	10/02/89	70	0.61	ND	2.8	2.4	2.3	4.8
	02/20/90	73	2.2	3	7.5	5.9	0.68	5.3
	07/25/90	34	ND	1	2.0	0.67	0.12	1.5
	10/25/90	50	1.1	ND	3.3	4.0	4.2	4.7
MW2	10/02/89	ND	ND	ND	ND	ND	ND	ND
	02/20/90	ND	ND	ND	ND	ND	ND	ND
	07/25/90	ND	ND	ND	ND	ND	ND	ND
	10/23/90	ND	ND	ND	ND	ND	ND	ND
MW3	10/02/89	ND	ND	ND	ND	ND	ND	ND
	02/20/90	ND	ND	ND	ND	ND	ND	ND
	07/25/90	ND	ND	ND	ND	ND	ND	ND
	12/23/90	ND	ND	ND	ND	ND	ND	ND

a) all results are expressed in milligrams per liter (mg/L) which is equivalent to parts per million (ppm).

Water level readings were obtained prior to well purging.
Table 2 is a summary of ground water elevations.

TABLE 2
SUMMARY OF GROUND WATER ELEVATIONS

	MW1	MW2	MW3
11/13/89	45.85	44.91	45.96
12/14/89	45.86	44.97	45.96
2/20/90	46.53	45.35	46.37
3/22/90	46.55	45.17	46.09
4/23/90	45.81	44.99	46.01
7/25/90	45.68	44.88	45.92
8/22/90	46.34	44.51	45.68
9/25/90	46.20	44.53	45.68
10/23/90	45.68	44.64	45.57

a) elevations are given in feet above mean sea level (MSL).

Ground water flow direction at this site has not varied significantly from the north-northwest flow stated in the technical report submitted by Miller Environmental Company on 11/3/89.

If you have any questions please do not hesitate to call me.

Sincerely,
MILLER ENVIRONMENTAL COMPANY

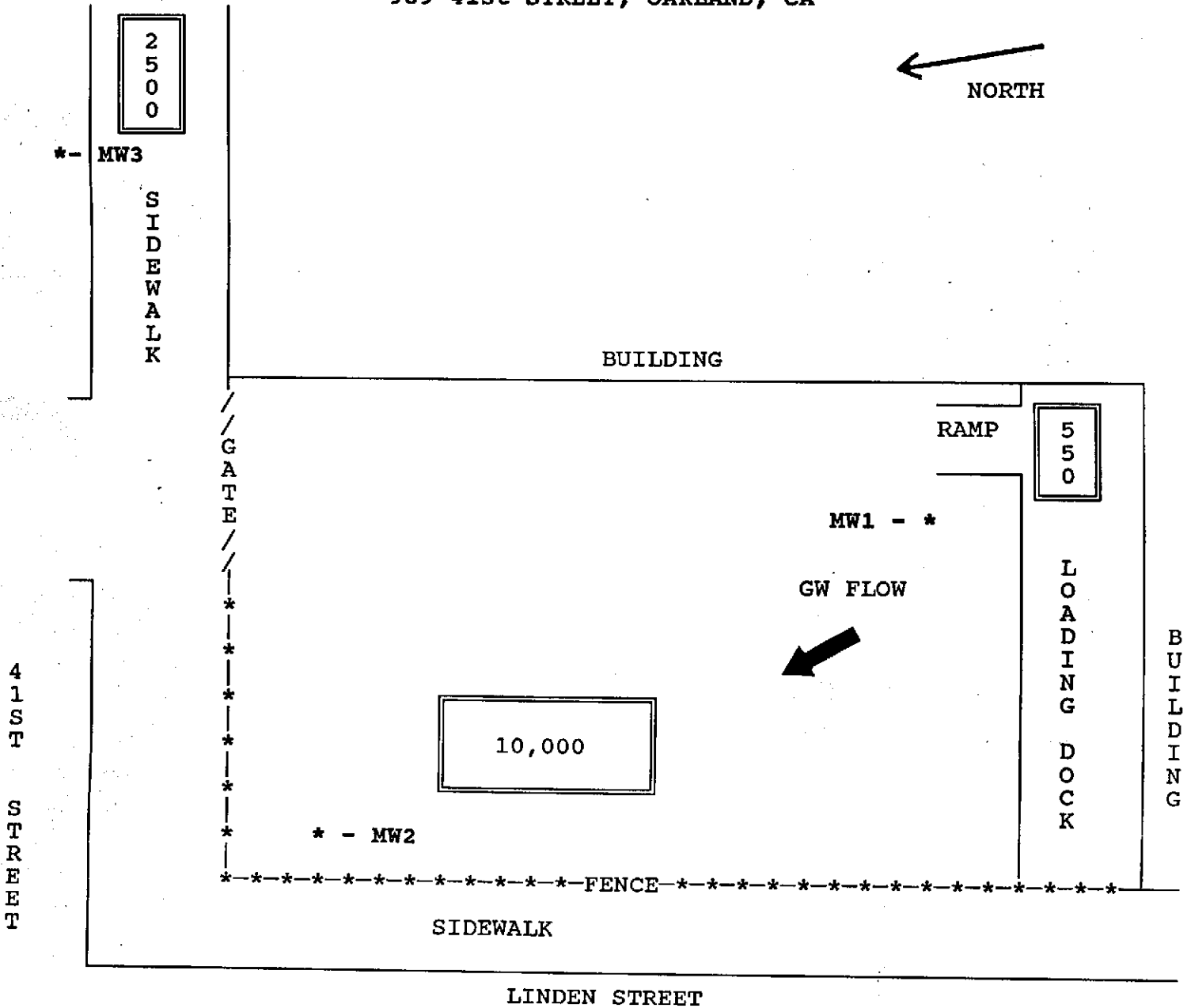


Reinhard Ruhmke
Hydrogeologist

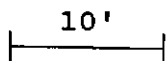
Enc: Laboratory results, site plan

cc: RWQCB
Joel Pitney - California Linen
file - 90-1031

FIGURE 1
 SITE PLAN - CALIFORNIA LINEN
 989 41st STREET, OAKLAND, CA



approximate scale:



= former underground tank location

* = monitoring well location



RECEIVED
NOV 20 1990
MILLER ENVIRONMENTAL CO.

3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245 FAX: (707) 763-4065

Reinhard Ruhmke
Miller Environmental Co.
Environmental Engineering
385 Pittsburg Ave
Richmond, CA 94801

Client Code: MIEC1
Survey # Cal Linen
Project/Release # 10105

Page 1

L A B O R A T O R Y R E S U L T S

Date Collected: 10/23/90
Date Analyzed: 11/05/90

Laboratory Job No.: 906411
Date Received: 10/24/90
Date Reported: 11/15/90

ASSAY:

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)

MATRIX: WATER

LABNO	SMPLNO	COMPOUND	FOUND mg/L	DET.LIM. mg/L
33635	MW3	TRPH	ND	0.6
33636	MW2	TRPH	ND	0.6
33637	MW1	TRPH	ND	0.6
33638	CMB	TRPH	ND	0.6
33639	CMS	TRPH	6.8	0.6
33640	CMSD	TRPH	7.2	0.6

NOTE: CMS AND CMSD WERE SPIKED AT 10 mg/L.

THIS REPORT HAS BEEN REVIEWED
AND APPROVED FOR RELEASE. 



3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245 FAX: (707) 763-4065

Page 2

L A B O R A T O R Y R E S U L T S

Date Collected: 10/23/90
Date Extracted: 11/06/90
Date Analyzed: 11/08/90

Laboratory Job No.: 906411
Date Received: 10/24/90
Date Reported: 11/15/90

ASSAY: TPH/DIESEL (EPA 8015)
MATRIX: WATER

<u>LABNO</u> <u>SMPLNO-ID</u>	<u>RESULTS</u>	<u>DET.LIM.</u>
33635 MW3 DIESEL	ND	0.05 mg/L
33636 MW2 DIESEL	ND	0.05 mg/L
33637 MW1 DIESEL	1.1 mg/L	0.05 mg/L
33638 CMB DIESEL	ND	0.05 mg/L
33639 CMS DIESEL	0.68 mg/L	0.05 mg/L
33640 CMSD DIESEL	0.70 mg/L	0.05 mg/L

NOTE: CMS AND CMSD WERE SPIKED AT 0.83 mg/L.



3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245 FAX: (707) 763-4065

Page 3

L A B O R A T O R Y R E S U L T S

Date Collected: 10/23/90
Date Extracted: 10/31/90
Date Analyzed: 10/31/90

Laboratory Job No.: 906411
Date Received: 10/24/90
Date Reported: 11/15/90

ASSAY: TPH/GASOLINE (EPA 5030/8015)
MATRIX: LIQUID

<u>LABNO SMPLNO-ID</u>	<u>RESULTS</u>	<u>DET.LIM.</u>
33635 MW3 GASOLINE	ND	0.05 mg/L
33636 MW2 GASOLINE	ND	0.05 mg/L
33637 MW1 GASOLINE	50 mg/L	10 mg/L
33638 CMB GASOLINE	ND	0.05 mg/L
33639 CMS GASOLINE	0.44 mg/L	0.05 mg/L
33640 CMSD GASOLINE	0.45 mg/L	0.05 mg/L

NOTE: CMS AND CMSD WERE SPIKED AT 0.48 mg/L.



3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245 FAX: (707) 763-4065

Page 4

LABORATORY RESULTS

Date Collected: 10/23/90
Date Extracted: 10/31/90
Date Analyzed: 10/31/90

Laboratory Job No.: 906411
Date Received: 10/24/90
Date Reported: 11/15/90

ASSAY: TPH/ BTEX (EPA 5030/602)
MATRIX: LIQUID

LABNO	SMPLNO-ID	RESULTS	DET.LIM.
33635	MW3		
	BENZENE	ND	0.001 mg/L
	TOLUENE	ND	0.001 mg/L
	ETHYLBENZENE	ND	0.001 mg/L
	XYLENE	ND	0.001 mg/L
33636	MW2		
	BENZENE	ND	0.001 mg/L
	TOLUENE	ND	0.001 mg/L
	ETHYLBENZENE	ND	0.001 mg/L
	XYLENE	ND	0.001 mg/L
33637	MW1		
	BENZENE	3.3 mg/L	0.20 mg/L
	TOLUENE	4.0 mg/L	0.20 mg/L
	ETHYLBENZENE	4.2 mg/L	0.20 mg/L
	XYLENE	4.7 mg/L	0.20 mg/L
33638	CMB		
	BENZENE	ND	0.001 mg/L
	TOLUENE	ND	0.001 mg/L
	ETHYLBENZENE	ND	0.001 mg/L
	XYLENE	ND	0.001 mg/L
33639	CMS		
	BENZENE	0.012 mg/L	0.001 mg/L
	TOLUENE	0.012 mg/L	0.001 mg/L
	ETHYLBENZENE	0.012 mg/L	0.001 mg/L
	XYLENE	0.012 mg/L	0.001 mg/L



3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245 FAX: (707) 763-4065

L A B O R A T O R Y R E S U L T S

Page 5

Laboratory Job No.: 906411

<u>LABNO SMPLNO-ID</u>	<u>RESULTS</u>	<u>DET.LIM.</u>
33640 CMSD		
BENZENE	0.010 mg/L	0.001 mg/L
TOLUENE	0.012 mg/L	0.001 mg/L
ETHYLBENZENE	0.010 mg/L	0.001 mg/L
XYLENE	0.010 mg/L	0.001 mg/L

NOTE: CMS AND CMSD WERE SPIKED AT 0.012 mg/L.



RECEIVED

NOV 20 1991

MILLER ENVIRONMENTAL CO

3700 Lakeville Highway, Petaluma, CA 94954
P.O. Box 808024, Petaluma, CA 94975-8024
Telephone: (707) 763-8245 FAX: (707) 763-4065

QUALITY CONTROL REPORT

As part of ACCULAB Environmental Services' continuing efforts to provide the best possible product to our clients, we are now including with each analysis report, the results of the Quality Control samples analyzed along with your samples.

ACCULAB is following a Quality Assurance Program that includes control matrix sample analysis. In brief, we use tap water as the control matrix for liquid samples and washed sand as the control matrix for solid samples. We analyze three portions of the control matrix, one portion as the control matrix blank (CMB), one portion as the control matrix spike (CMS), and one portion as the control matrix spike duplicate (CMSD). These analyses are performed as part of our routine Quality Assurance program, at no additional charge to our clients. In addition, matrix spike and matrix spike duplicate analyses can be run on your samples, however these analyses would be charged as additional samples.

During the initial stages of the implementation of this program we will be reporting the actual results of these three control matrix samples along with the level of spike that was added to the spike and spike duplicate samples. From this information, percent recovery (accuracy) data and relative percent difference (precision) data can be calculated. In the near future, calculated accuracy and precision results along with control limits will be reported.

Due to the nature of the control matrix materials, certain positive results can be expected in the control matrix blank (CMB) results. The tap water source may contain trihalomethanes, anions, major cations, and some trace metals. The washed sand may also contain anions, major cations and some trace metals. These positive results represent inherent concentrations and in no way reflect upon your sample results, or upon laboratory background levels.

We hope you will find this quality control information useful in your review of our reports. This quality control information is the first in a series of many steps we are taking to improve our service to our clients. If you have any questions concerning this information, please contact a Project Manager for further information.