

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION (LOP)  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

September 26, 1996  
StID # 3512

REMEDIAL ACTION COMPLETION CERTIFICATION

Mr. John Yandell Jr.  
Yandell Truckaway Inc.  
563 Julie Ann Way  
Oakland CA 94621

RE: Yandell Truckaway Inc., 563 Julie Ann Way, Oakland 94621

Dear Mr. Yandell:

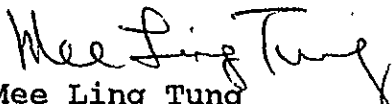
This letter confirms the completion of site investigation and remedial action for the six underground fuel tanks at the above site: three (3) 7,000 gallon diesel, one (1) 10,000 gallon diesel, one (1) 5,000 gallon gasoline and one (1) 7000 gallon gasoline.

Based upon the available information and with provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to the regulation contained in Title 23, Division 3, Chapter 16, Section 2721 (e) of the California Code of Regulations.

Please contact Barney Chan at (510) 567-6765 if you have any questions regarding this matter.

Sincerely,

  
Mee Ling Tung  
Agency Director

c: B. Chan, Hazardous Materials Division-files  
Kevin Graves, RWQCB  
L. Casias, SWRCB (with attachment)  
Mr. T. Carter, CET Environmental Services, Inc., 3033 Richmond  
Parkway, Suite 300, Richmond CA 94806

RACC563J

**CASE CLOSURE SUMMARY**  
**Leaking Underground Fuel Storage Tank Program**

**I. AGENCY INFORMATION**

**Date:** 5/13/96

**Agency name:** Alameda County-HazMat **Address:** 1131 Harbor Bay Parkway  
Rm 250, Alameda CA 94502  
**City/State/Zip:** Alameda **Phone:** (510) 567-6700  
**Responsible staff person:** Barney Chan **Title:** Hazardous Materials Spec.

**II. CASE INFORMATION**

**Site facility name:** Yandell Truckaway Inc.

**Site facility address:** 563 Julie Ann Way, Oakland CA 94621

**RB LUSTIS Case No:** N/A **Local Case No./LOP Case No.:** 3512

**ULR filing date:** 8/8/91 **SWEEPS No:** N/A

**Responsible Parties:                      Addresses:                      Phone Numbers:**

Yandell Truckaway Inc.                      563 Julie Ann Way                      (510) 536-2100  
Mr. John Yandell Jr.                      Oakland, CA 94621

<b><u>Tank No:</u></b>	<b><u>Size in gal.:</u></b>	<b><u>Contents:</u></b>	<b><u>Closed in-place or removed?:</u></b>	<b><u>Date:</u></b>
1	7,000	diesel	Removed	8/08/91
2	7,000	diesel	Removed	8/08/91
3	7,000	diesel	Removed	8/08/91
4	10,000	diesel	Removed	8/08/91
5	5,000	UL gasoline	Removed	8/08/91
6	7,000	UL gasoline	Removed	8/08/91

**III RELEASE AND SITE CHARACTERIZATION INFORMATION**

**Cause and type of release:** unknown

**Site characterization complete?** Yes

**Date approved by oversight agency:** 1/16/96 **Work plan approved**

**Monitoring Wells installed?** YES **Number:** 3

**Proper screened interval?** Yes, 5-15'bgs

Leaking Underground Fuel Storage Program

Highest GW depth: 5.49' BGS                      Lowest depth: 6.99' BGS

Flow direction: generally southwesterly

Most sensitive current use: industrial

Are drinking water wells affected? No              Aquifer name: NA

Is surface water affected? No      Nearest affected SW name: NA

Off-site beneficial use impacts (addresses/locations): NA

Report(s) on file? Yes Where is report(s)? "

*Isn't this a  
huge amount  
of diesel in  
water?* -6577

**Treatment and Disposal of Affected Material**

<u>Material</u>	<u>Amount (include units)</u>	<u>Acti of Disp</u>
Tanks & Piping	4-7000 gal 1-10000 gal 1-5000 gal	Dispos
Soil	335 tons 90 cy	Valley R BFI Land:
Groundwater/ Oil/Water	5000 gallon 1500 gallon	Disposed, Disposed,

**Maximum Documented Contaminant Concentrations**

Contaminant	Soil (ppm)		* Water (ppb)	
	1 Before	2 After	3 Before	After
TPH (Gas)	1400	31	190,000	370
TPH (diesel)	1400	230	49,000	11,000
Benzene	12	0.056	ND	ND
Toluene	8	ND	ND	ND
Ethylbenzene	14	ND	ND	ND
Xylenes	34	ND	ND	0.5
TPH (motor oil)		740	ND	ND
Conductivity	9188 umhos/cm			
PNAS	4	ND	4	ND

**Comments (Depth of Remediation, etc.):**

- 1 From initial tank removal
- 2 After overexcavation, although borings have detected TPHd and TPHmo at elevated levels up to 11,000 ppm and 1300 ppm, respectively. This may be due to contaminated fill.
- 3 Grab groundwater sample from tank pit
- 4 From soil and grab groundwater samples from GP1.

**Leaking Underground Fuel Storage Tank Program**

**IV. CLOSURE**

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? YES

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Undetermined

Does corrective action protect public health for current land use? YES

Site management requirements: NA

Should corrective action be reviewed if land use changes? Yes

Monitoring wells Decommissioned: NO, pending closure

Number Decommissioned: 0 Number Retained: 3

List enforcement actions taken: None

List enforcement actions rescinded: None

**V. LOCAL AGENCY REPRESENTATIVE DATA**

Name: Barney M. Chan Title: Hazardous Materials Specialist

Signature: *Barney M Chan* Date: 5/22/96

**Reviewed by**

Name: Susan Hugo Title: Sr.HMS

Signature: *Susan L Hugo* Date: 5/13/96

Name: Tom Peacock Title: Sup.Haz. Mat. Specialist

Signature: *Tom Peacock* Date: 5-21-96

**VI. RWQCB NOTIFICATION**

Date Submitted to RB: RB Response:

RWQCB Staff Name: K. Graves Title: AWRCE Date:

**VII. ADDITIONAL COMMENTS, DATA, ETC.**

See attached site summary

Site Summary for Yandell Trucking, StID # 3512  
563 Julie Ann Way

This site is located near the Oakland Coliseum, just east of Interstate 880. This area was historically filled with miscellaneous materials ranging from bricks, glass, RR ties, telephone poles, concrete, asphalt and unidentified oily material. The former Malibu Grand Prix site, located at 8000 S. Coliseum Way, StID # 3813 documents the presence of tar and oily material associated with fill material.

**August 8, 1991-** Six underground tanks, three (3) 7000 gallon and one (1) 10,000 gallon diesel and one (1) 5,000 gallon and one (1) 7,000 gallon gasoline were removed from the site. Tanks were located in a common pit and one large excavation was performed. One diesel tank was a baffled tank consisting of two 3500 gallon compartments. Eight sidewall samples were taken from around the pit. Groundwater was observed at approximately 8' bgs depth and floating product was present. No water sample was taken at this time due to presence of free product. The soil samples detected up to 1400 ppm diesel, 1400 ppm gasoline and 12,8,14 and 34 ppm BTEX respectively.

See Table 1 for summary of these soil sample results.

**October 8 and 9, 1991-** The pit was overexcavated laterally approximately four feet on all sides and ten confirmatory soil samples were taken. Only one area detected residual diesel at 230 ppm and two locations detected gasoline at 31 and 1.2 ppm. Only these two samples detected benzene at 0.056 and 0.015ppm. No T,E or X was detected. Perhaps based on the appearance of dissolved asphalt wrapping from the tanks, TPHmo was also analyzed. All ten confirmatory soil samples detected TPHmo ranging from 110-740 ppm. See Table 3 for soil sample results. A sample of the floating product was analyzed at this time and identified as diesel.

**November 25, 1991-** Approximately 5000 gallons of contaminated water from the excavation was removed from the pit by H&H Environmental Services. Approximately 335 tons of soil was disposed at Valley Rock Landfill in Orland, CA. A water sample, EX-W, was taken after water recharged. This sample detected TOG, TPHd, TPHmo and TPHg at concentrations of 630, 49,ND and 190 mg/l respectively. No BTEX was detected in the water sample.

It appears that the majority of soil contamination due to the underground tanks was removed. There is uncertainty as to the source of the oil and grease/TPHmo. Groundwater was impacted since free product was observed.

**April 13, 1993-** Three monitoring wells were installed within ten feet of the former tank pit, one upgradient and two downgradient. The analytical results for soil samples taken from the monitoring wells were ND for gasoline, diesel and BTEX, however, oil and grease and TPHmo was again detected at 310 ppm and 280 ppm.

Two years of quarterly groundwater monitoring was performed on these wells. Low levels of TPH as diesel and as gasoline and low levels of benzene (up to 2ppb) have been detected. Groundwater gradient has been from west to south.

**August 11, 1993-** Two borings (B1 and B2) were advanced in the assumed upgradient and downgradient direction relative to the former tank pit. Low concentrations of diesel (14ppm) and motor oil (18 ppm) and no gasoline or BTEX were found in soil samples from these borings. The grab groundwater sample from the upgradient boring (B1) detected 5.4 mg/l diesel and 1.5 mg/l mo and ND gas and BTEX, possibly indicative of background contamination.

Based on the varying groundwater gradient, additional investigation was requested to further characterize the soil and groundwater up and downgradient from the tank pit.

**December 6, 1994-** Three additional borings were advanced around the tank pit, two upgradient and one downgradient: borings B3, B4 and B5. Again, oily material was observed and detected in the soil samples taken from the borings. The two upgradient borings (B3&B4) detected up to 1300 ppm TPH mo. In the downgradient boring B5, an oily substance was observed in the soil sample at 6.5' depth, just above groundwater. This oily substance was also observed in the 6.5' sample from boring B4. The soil sample from B5 detected 11000 ppm diesel, 100 ppm gas, and 0.14, 0.20, 0.66 and 2.4 mg/kg BTEX respectively. The grab groundwater sample from B5 detected 540 ppm diesel, 1.8 mg/l gasoline, 0.0067 and 0.0034 mg/l benzene and total xylenes respectively.

**July 24, 1995-** A RBCA Assessment was performed for the site. The conclusion of the report was that no Tier 1 target concentrations were exceeded in soil or groundwater based on the potential exposure pathways examined. It may have been premature at this time to have performed the risk evaluation since there was later discussion whether the site had been adequately characterized and whether free product existed at the site. To address these concerns a work plan was submitted to: determine the limits of contamination around boring B5 and to determine the extent of the petroleum hydrocarbon plume.

**February 6, 1996-** A total of five geoprobe borings were advanced at this site. Three of the borings were located approximately 15' equidistant around B5. The other two borings were advanced further downgradient from the former tank complex and B5. Both soil and grab groundwater samples were taken from these borings. Results indicate:

- a. The groundwater further downgradient from B5 has not been or has been only slightly impacted by diesel.
- b. The presence of oil in soil and on water exists around B5 and is not likely from a UST release since the oil contamination appears separated physically from the former diesel tanks.
- c. BTEX is practically absent in all soil and groundwater samples.

**Rationale for closure:**

Based on the complete characterization of this site, it appears that contaminated backfill has impacted this site. This contamination is localized and not migrating appreciably in groundwater. Soil overexcavation and groundwater removal remediated the majority of petroleum contamination from the former USTs. Groundwater beneath the site is not potable based on the conductivity of well water samples. The levels of TPHd left at the site should tend to biodegrade and there is an absence of BTEX in groundwater. PNAs were not detected in soil and groundwater samples from boring GP-1 oily substance observed in soil and groundwater. No risk to human health or the environment exist. The oil present at the site has come from contaminated backfill and has shown limited solubility in water. This should be considered a low risk groundwater site. Long term groundwater monitoring has shown that contaminant levels have stabilized. No further action is recommended.

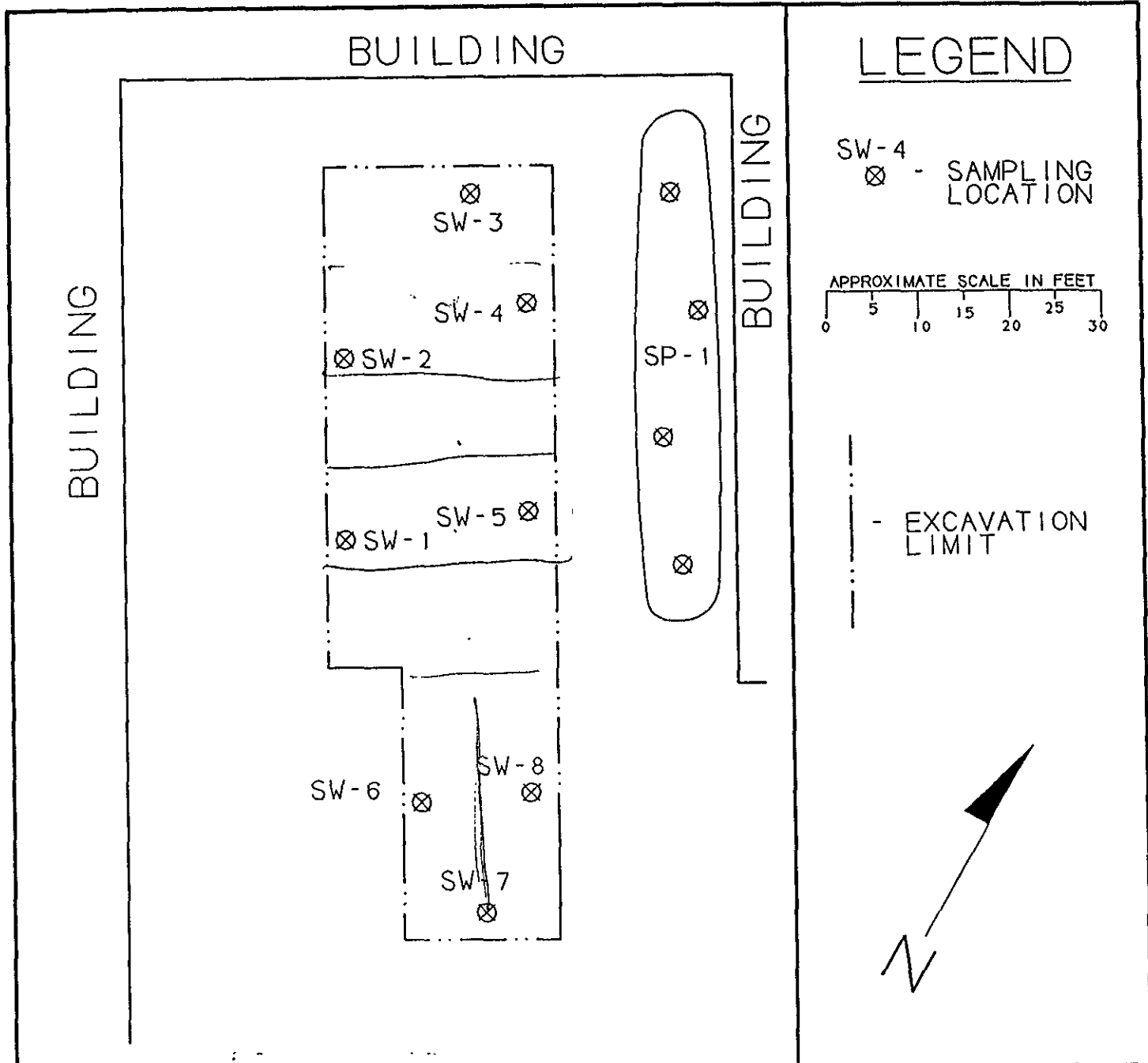
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FIGURE 1  
SITE LOCATION MAP





# FIGURE 2 SOIL SAMPLE LOCATIONS



YANDELL TRUCKING  
563 JULIE ANN WAY, OAKLAND, CA

BY MILLER ENVIRONMENTAL COMPANY  
RICHMOND, CA

MEC # 91-0014 01/23/92

pile generated during tank removal operations. These four discrete samples were composited into one sample (SP-1) at the laboratory.

For ease of reference, a summary of laboratory results is provided in Table 1.

**TABLE 1**  
Laboratory Results for Tank Removal  
(Collected August 8, 1991)

Samp #	TPH Diesel	TPH Gas	B	T	E	X
SW-1	1400	720	ND	6	14	34
SW-2	1200	1400	12	6	11	16
SW-3	87	ND	ND	ND	ND	ND
SW-4	550	1200	ND	ND	7	25
SW-5	1100	600	ND	ND	5	17
SW-6	320	570	4	8	8	16
SW-7	23	1.9	0.23	0.03	ND	0.03
SW-8	12	ND	ND	ND	ND	ND
SP-1	9.2	140	ND	ND	0.9	3.1

- a) Sample results expressed in milligrams per kilogram (mg/kg) which is equivalent to parts per million (ppm).
- b) ND = Not detected
- c) NA = Not analyzed

SP-1 was also analyzed for Reactive Cyanide-Sulfide and pH. Laboratory results indicate that the reactive agents were not detected and the pH of the soil was 7.95.

Soil samples were collected in clean 2" X 6" brass tubes, sealed with teflon tape and polyurethane caps and placed on ice for transport to the State certified laboratory.

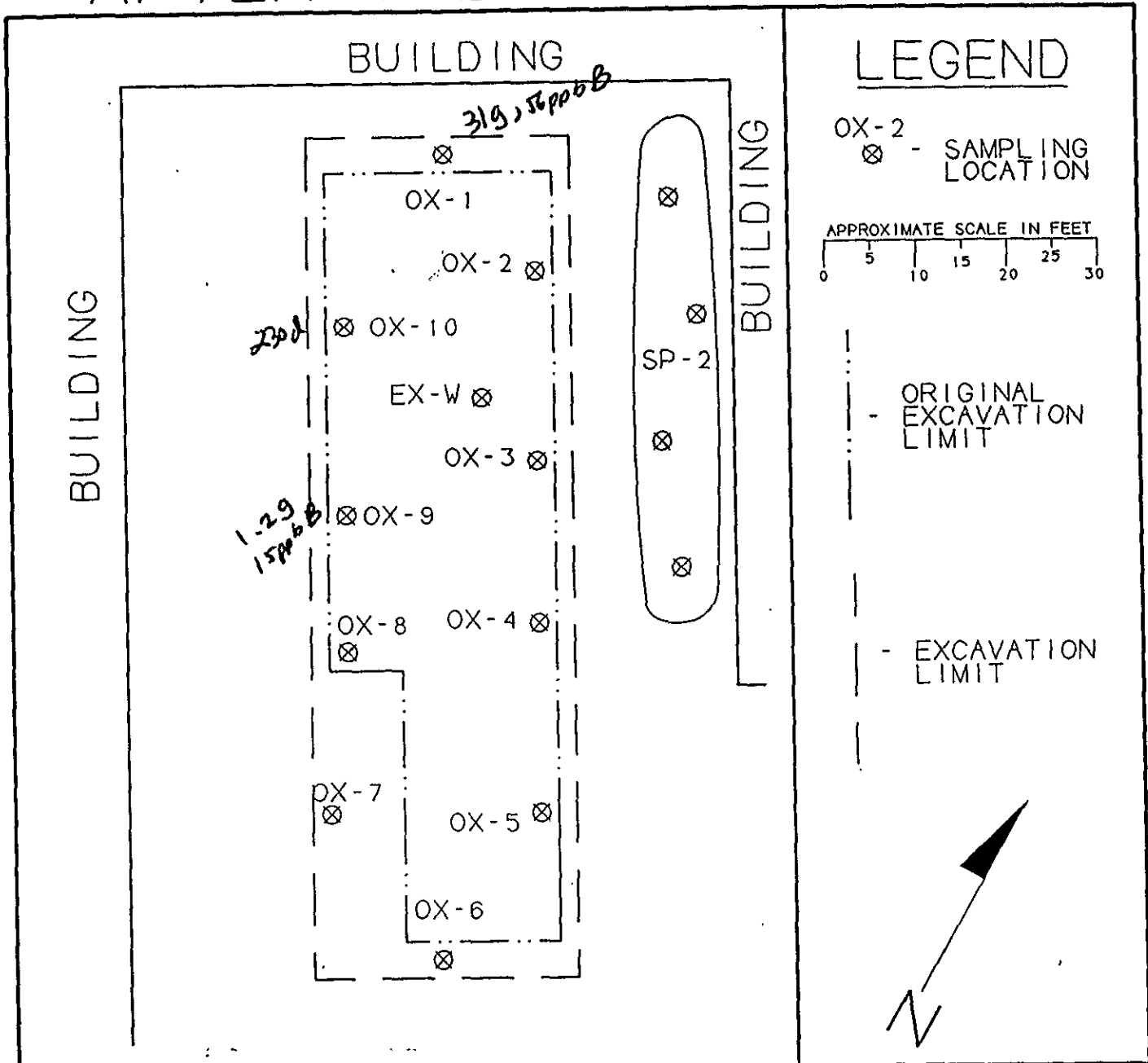
Copies of the laboratory reports and chain-of-custody form are located in Appendix B.

Ground water was encountered in the former tank pit at approximately 8 feet below grade; floating product was also observed in the initial excavation. No water samples were collected at that time due to the presence of free product on the ground water. The excavation was pumped at a later date and the water sampled.

Soil Disposal

The stockpiled soil was allowed to aerate for approximately 1-1/2 months following tank removal activities. Two composite samples (SP-2 and SP-1) were collected during the aeration process. SP-1 collected September 19, 1991 indicated that aeration was complete and that the soil could be

# FIGURE 3 SOIL SAMPLE LOCATIONS AFTER OVER-EXCAVATION



YANDELL TRUCKING  
563 JULIE ANN WAY, OAKLAND, CA  
BY MILLER ENVIRONMENTAL COMPANY  
RICHMOND, CA

MEC # 91-0014 01/23/92

**TABLE 3**  
Laboratory Results following Over-excavation  
 (Collected October 9, 1991)

Samp #	TPH	TPH	TPH	ppb			
	Diesel	MTR/OIL	Gas	B	T	E	X
OX-1	ND	400	31	56	ND	ND	ND
OX-2	ND	320	ND	ND	ND	ND	ND
OX-3	ND	110	ND	ND	ND	ND	ND
OX-4	ND	360	ND	ND	ND	ND	ND
OX-5	ND	640	ND	ND	ND	ND	ND
OX-6	ND	740	ND	ND	ND	ND	ND
OX-7	ND	190	ND	ND	ND	ND	ND
OX-8	ND	190	ND	ND	ND	ND	ND
OX-9	ND	260	1.2	15	ND	ND	ND
OX-10	230	370	ND	ND	ND	ND	ND
SP-2	260	140	230	ND	ND	ND	1000

- a) TPH results expressed in milligrams per kilogram (mg/kg) which is equivalent to parts per million (ppm). BTEX results expressed in micrograms per kilogram (ug/kg) which is equivalent to parts per billion (ppb).
- b) ND = Not detected
- c) NA = Not analyzed
- d) SP-2 was a lab composite of four discrete soil samples collected from the spoils pile generated during over-excavation activities.

SP-2 was also analyzed for Total Oil and Grease (TOG) and CAM-17 metals. High levels of TOG (2,600 ppm) were detected in the spoils pile.

A sample of the product found on the water table was also analyzed for creosote and diesel. Based on laboratory results, the product is diesel fuel. No creosote was detected. Copies of all laboratory reports and chain-of-custody forms are located in Appendix B.

Water sampling

On November 25, 1991 MEC personnel again returned to the site to supervise the pumping and removal of approximately 5,000 gallons of contaminated water from the excavation. Following removal of the contaminated water, ground water was allowed to recharge into the excavation and a water sample was collected. The contaminated water was removed and properly disposed of by H & H Environmental Services. A copy of the hazardous waste manifest is enclosed in Appendix A.

The <sup>rechs</sup> water sample was analyzed for TOG, TPH/diesel and TPH/gasoline and BTEX. A copy of the laboratory results is enclosed in the Appendix B. Table 4, Page 6 shows the laboratory results.

**TABLE 4**  
Water Sample Results  
 (Collected November 25, 1991)

Samp #	TOG	TPH Diesel	TPH MTR/OIL	TPH Gas	B	T	E	X
EX-W	630	49	ND	190	ND	ND	ND	ND

- a) TOG, TPH/diesel, TPH/gasoline results expressed in milligrams per Liter (mg/L) which is equivalent to parts per million (ppm).
- b) BTEX results expressed in micrograms per Liter (ug/L) which is equivalent to parts per billion (ppb).
- c) ND = Not detected

Soil disposal

Approximately 335 tons of contaminated soil (designated as non-hazardous waste) was removed from the site and properly disposed of at Valley Rock Landfill in Orland, CA. A copy of the Certificate of Remediation is included in Appendix C.

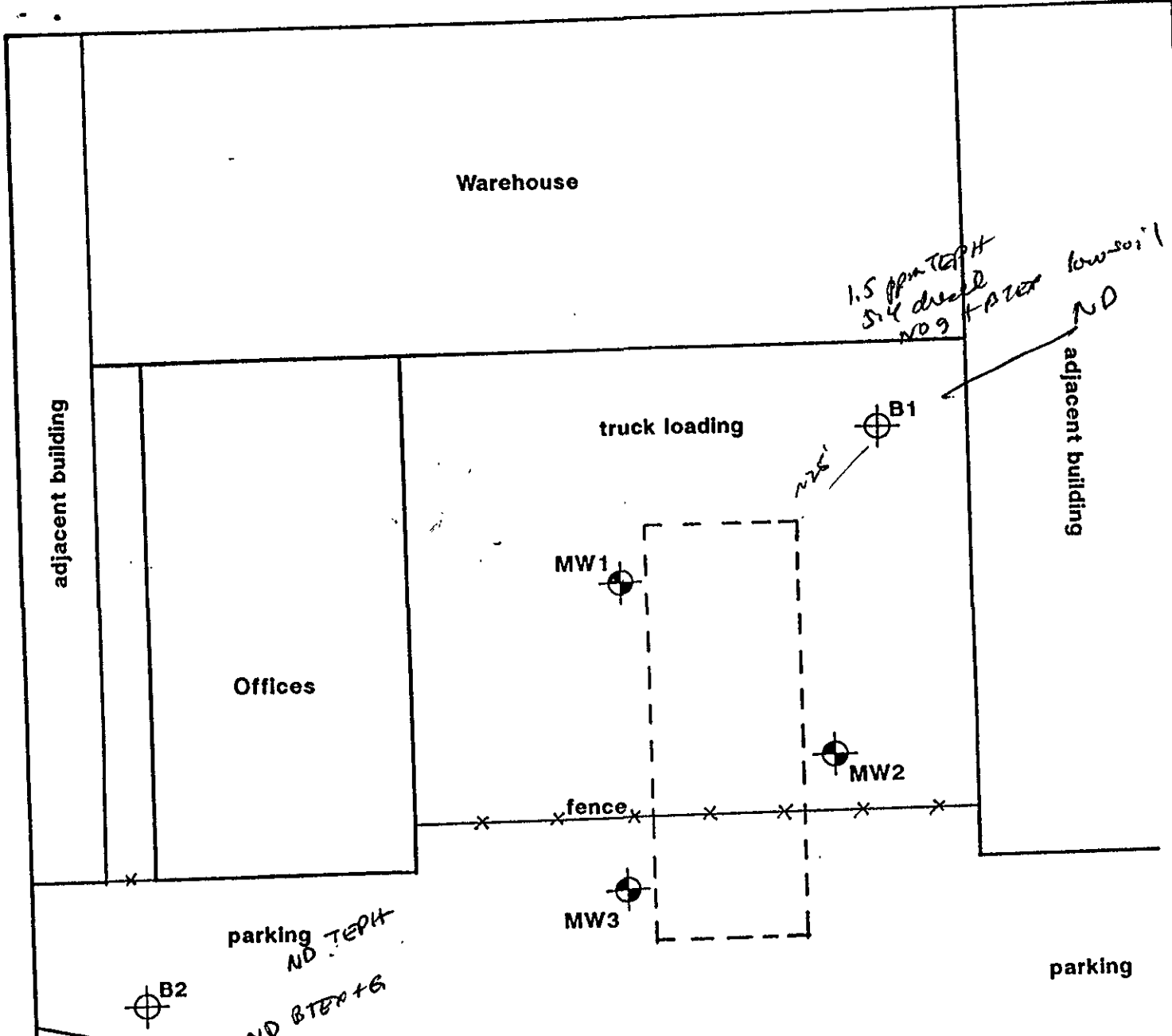
**DISCUSSION**

High levels of diesel contamination were found in the sidewall samples taken from the excavation following removal of six USTs. After overexcavation of the former tank cavity, no diesel contamination was detected with the exception of one soil sample (OX-10). This sample contained medium levels of diesel contamination (< 300 ppm). However, all soil samples collected after over-excavation contained Motor Oil contamination. After discussions with the laboratory, it was determined that motor oil appears at different times and ranges on the chromatograph than diesel fuel. Therefore, the difference between motor oil and diesel fuel should be readily identifiable. In addition to motor oil contamination, high boiling point hydrocarbon contamination (Total Oil and Grease) was detected in the spoils pile.




A sample of the product removed from the tanks was analyzed as being diesel fuel. Soil samples from the original excavation were not examined for Motor/Oil or TOG. The water sample collected from the recharge ground water after pumping (11/25/91) contained high levels of hydrocarbon contamination but no BTEX. The major contaminants detected were Oil and Grease and gasoline with diesel also identified.

**CONCLUSIONS**

It appears that diesel contamination found in the sub-surface soil following tank removal was effectively removed by overexcavation. With the exception of sample (OX-10), the



**LEGEND**

-  Monitoring Well (installed 4-13-93)
-  Former Tank Excavation
-  Soil Boring (drilled 8-11-93)

Julie Ann Way



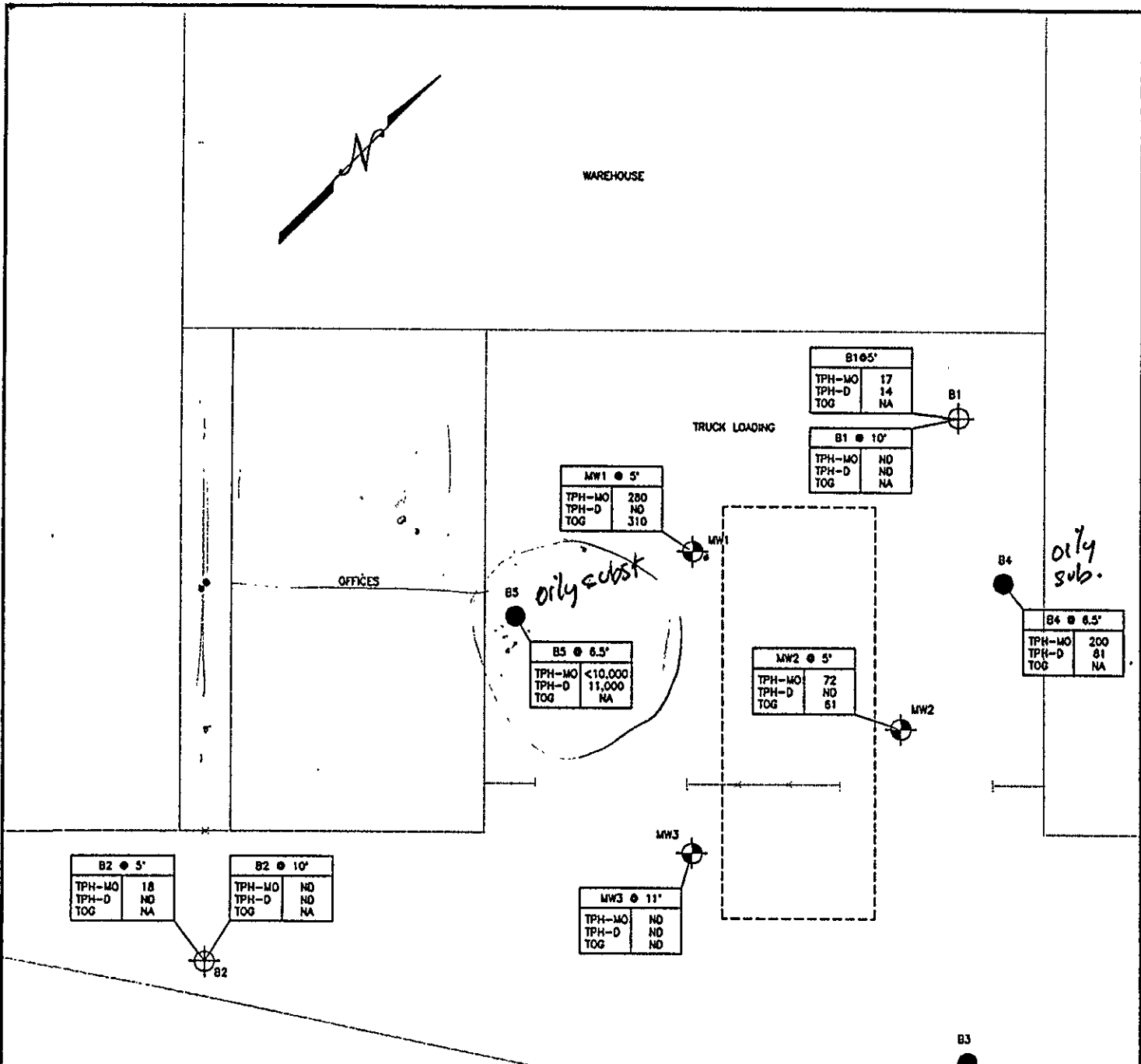
0 20 40  
Scale (feet)

**Site Plan**

563 Julie Ann Way  
Oakland, CA

**CET Environmental Services, Inc.**

<b>Yandell Truckaway</b>		<b>PLATE</b>  2
<b>JOB NUMBER</b> 3552	<b>DATE</b> 08/93	



**LEGEND**

MW3 MONITORING WELL (INSTALLED 04/13/93)

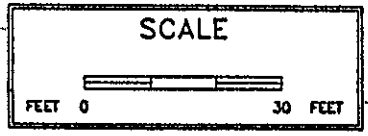
B2 SOIL BORING (INSTALLED 08/11/93)

B3 SOIL BORING (INSTALLED 12/06/94)

FORMER TANK EXCAVATION

Sample Name	Depth	TPH-MO	TPH-D	TOG
TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL	5'	18	ND	NA
TOTAL PETROLEUM HYDROCARBONS AS DIESEL	5'	ND	ND	NA
TOTAL OIL & GREASE	5'	ND	ND	NA

CONCENTRATIONS EXPRESSED IN MILLIGRAMS PER KILOGRAM (mg/Kg)  
 ND = NOT DETECTED AT OR ABOVE THE TEST METHOD DETECTION LIMIT  
 NA = NOT ANALYZED

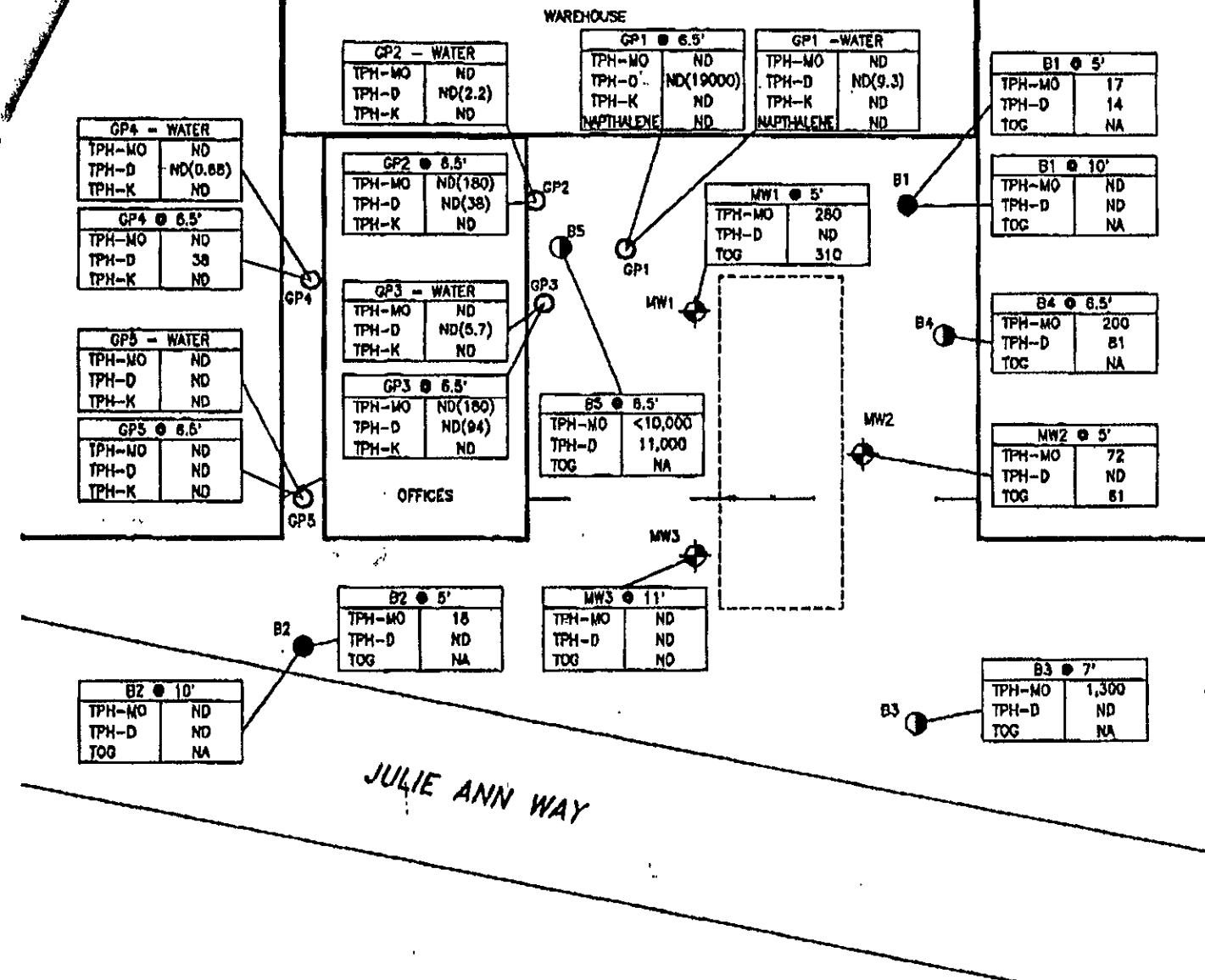


**CET Environmental Services, Inc.**

SOIL SAMPLE ANALYTICAL RESULTS				
YANDELL TRUCKAWAY OAKLAND, CALIFORNIA				
JOB NUMBER	DATE	DRAWING	BY	REVISED
3552	01/95	SOIL	LONG	01/31

PLATE

4



**LEGEND**

- SOIL BORING (COMPLETED FEBRUARY 8, 1996)
- ⊕ GROUNDWATER MONITORING WELL (INSTALLED APRIL 13, 1993)
- SOIL BORING (COMPLETED AUGUST 11, 1993)
- ⦿ SOIL BORING (COMPLETED DECEMBER 8, 1994)
- ▭ FORMER TANK EXCAVATION

B3 @ 7'	
TPH-MO	TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
TPH-D	TOTAL PETROLEUM HYDROCARBONS AS DIESEL
TOG	TOTAL OIL & GREASE
TPH-K	TOTAL PETROLEUM HYDROCARBONS AS KEROSENE

[ ] CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM (mg/Kg) OR LITER (mg/L)  
 ND = NOT DETECTED AT OR ABOVE THE TEST METHOD DETECTION LIMIT  
 NA = NOT ANALYZED  
 ND(38) = TPH CONCENTRATION QUANTIFIED AGAINST TPH-MO OR TPH-D.



**CET Environmental Services, Inc.**

**FEBRUARY 1996 SOIL BORINGS AND PAST SOIL SAMPLING ANALYTICAL RESULTS**  
**YANDELL TRUCKAWAY**  
**563 JULIE ANN WAY**  
**OAKLAND, CALIFORNIA**

JOB NUMBER	DATE	DRAWING	BY	SCALE
3552	03/01/96	0296RSLT	RASCHKE	1" = 40'





**Table 3**  
**Summary of Groundwater Sample Analytical Results from Monitoring Wells MW1, MW2, and MW3**  
**Yandell Truckaway, 563 Julie Ann Way, Oakland, California**

Well/ Sample ID.	Sample Collection Date	Analytes/Detected Concentrations (µg/L) <sup>a</sup>							
		TPH-MO <sup>b</sup>	TPH-D <sup>c</sup>	TOG <sup>d</sup>	TPH-G <sup>e</sup>	B <sup>f</sup>	T <sup>f</sup>	E <sup>f</sup>	X <sup>f</sup>
MW1	04/21/93	4900	2900	4400	<50	<0.5	<0.5	<0.5	<0.5
	09/02/93	2000	2600	<1000	120	2.0	<0.5	<0.5	<0.5
	12/02/93	NA <sup>g</sup>	4400	<1000	160	1.2	<0.5	<0.5	<0.5
	03/02/94	<500	4800	<1000	NA	2.5	<0.5	<0.5	0.72
	06/30/94	<500	1900	<1000	250	2.0	<0.5	<0.5	1.1
	09/09/94	<500	1700	<1000	120	1.7	<0.5	<0.5	1.4
	12/09/94	<250	1400	<5000	530	1.3	<0.5	<0.5	0.8
	03/15/95	<500	11000	<5000	370	<0.5	<0.5	<0.5	0.5
MW2	04/21/93	1100	<50	1600	<50	<0.5	<0.5	<0.5	<0.5
	09/02/93	<500	<50	<1000	<50	<0.5	<0.5	<0.5	<0.5
	12/02/93	NA	<50	<1000	<50	<0.5	<0.5	<0.5	<0.5
	03/02/94	<500	<50	<1000	NA	<0.5	<0.5	<0.5	<0.5
	06/30/94	<500	<50	<1000	<50	<0.5	<0.5	<0.5	<0.5
	09/09/94	<500	<50	<1000	<50	<0.5	<0.5	<0.5	<0.5
	12/09/94	<250	590	<5000	<50	<0.5	<0.5	<0.5	<0.5
	MW3	04/21/93	2400	190	2200	<50	<0.5	<0.5	<0.5
09/02/93		<500	<50	<1000	240	7.6	<0.5	<0.5	<0.5
12/02/93		NA	<50	2200	<50	2.3	<0.5	<0.5	<0.5
03/02/94		<500	130	1200	NA	0.68	<0.5	<0.5	<0.5
06/30/94		<500	200	<1000	70	<0.5	<0.5	<0.5	<0.5
09/09/94		<500	<50	<1000	80	0.8	<0.5	<0.5	1.0
12/09/94		<250	<50	<5000	<50	<0.5	<0.5	<0.5	0.6
03/15/95		<500	270	<5000	120	<0.5	<0.5	<0.5	<0.5

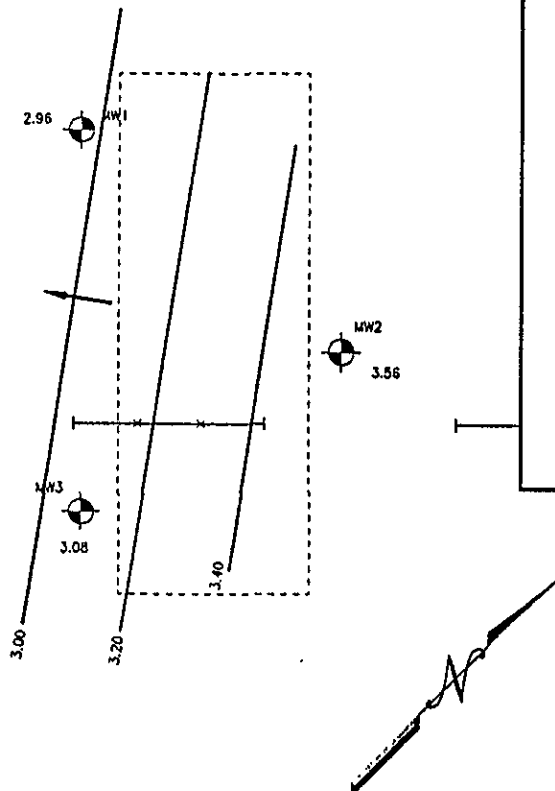
a. µg/L = micrograms per liter or parts per billion (ppb).  
 b. TPH-MO = total petroleum hydrocarbons as motor oil.  
 c. TPH-D = total petroleum hydrocarbons as diesel.  
 d. TOG = total oil and grease.

e. TPH-G = total petroleum hydrocarbons as gasoline.  
 f. BTEX = benzene, toluene, ethylbenzene, and xylenes (total).  
 g. NA = not analyzed

WAREHOUSE

OFFICES

TRUCK LOADING



LEGEND

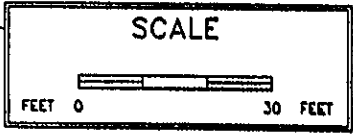
MW3  
MONITORING WELL (INSTALLED 4/13/93)

FORMER TANK EXCAVATION

GROUNDWATER CONTOUR  
(IN FEET RELATIVE TO MSL)  
CONTOUR INTERVAL = 0.2 ft

INFERRED DIRECTION OF  
GROUNDWATER FLOW

SCALE



JULIE ANN WAY



CET Environmental  
Services, Inc.

GROUNDWATER ELEVATIONS AND CONTOURS  
09/08/94

YANDELL TRUCKAWAY  
OAKLAND, CALIFORNIA

PLATE

8

JOB NUMBER	DATE	DRAWING	BY	REVISED
3552	10/94	GWL9	J LONG	09/30

WAREHOUSE

OFFICES

TRUCK LOADING

3.52 MW1

MW2  
3.70

MW3  
3.29

3.30

3.50



LEGEND



MONITORING WELL (INSTALLED 4/13/93)



FORMER TANK EXCAVATION



GROUNDWATER CONTOUR  
(IN FEET RELATIVE TO MSL)  
CONTOUR INTERVAL = 0.2 ft



INFERRED DIRECTION OF  
GROUNDWATER FLOW

SCALE

FEET 0 30 FEET

JULIE ANN WAY

GROUNDWATER ELEVATIONS AND CONTOURS  
03/02/94

YANDELL TRUCKAWAY  
OAKLAND, CALIFORNIA

PLATE

6



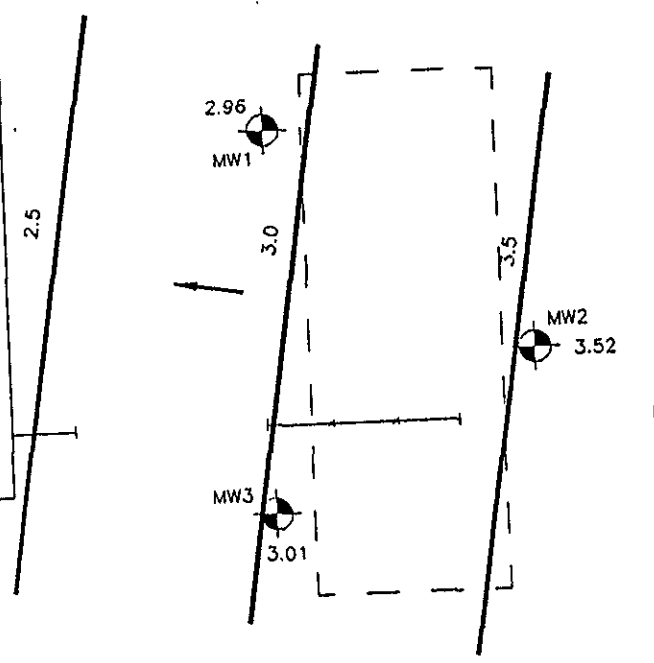
CET Environmental  
Services, Inc.

JOB NUMBER	DATE	DRAWING	BY	REVISED
3552	10/94	GWL7	J LONG	09/30

WAREHOUSE

OFFICES

TRUCK LOADING



LEGEND



MW3 MONITORING WELL (INSTALLED 4/13/93)



FORMER TANK EXCAVATION



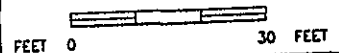
GROUNDWATER CONTOUR (IN FEET RELATIVE TO MSL)



INFERRED DIRECTION OF GROUNDWATER FLOW

JULIE ANN WAY

SCALE



CET Environmental Services, Inc.

GROUNDWATER ELEVATIONS & CONTOURS

09/02/93  
YANDELL TRUCKAWAY  
OAKLAND, CALIFORNIA

JOB NUMBER	DATE	DRAWING	BY	REVISED
3552	08/94	YANDELL4	J LONG	08/24

PLATE

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