



REMEDIAL ACTION COMPLETION CERTIFICATION

**RO-215 - 344 105th Avenue, Oakland, CA
(1-3000 gallon tank removed on February 29, 1989)**

March 26, 2002

Mr. Carlo Christensen
18367 Reamer Road
Castro Valley, CA 94546

Mr. Leon Mayer
2252 Marina Blvd
San Leandro, CA 94577

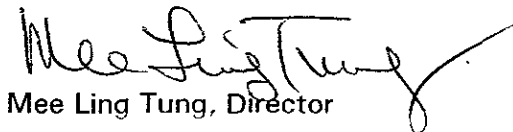
Dear Messrs. Mayer and Christensen:

This letter confirms the completion of site investigation and corrective action for the underground storage tank formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank site is in compliance with the requirements of subdivisions (a) and (b) of Section 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,


Mee Ling Tung, Director

cc: Chuck Headlee, RWQCB
Dave Deaner, SWRCB
Leroy Griffin, OFD
/files-ec (mayer-10)

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



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

RO0000215

March 26, 2002

Mr. Carlo Christensen
18367 Reamer Road
Castro Valley, CA 94546

Mr. Leon Mayer
2252 Marina Blvd
San Leandro, CA 94577

Re: Fuel Leak Site Case Closure for 344 105th Avenue, Oakland, CA

Dear Messrs. Christensen and Mayer:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Protection Division is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- up to 660 ppm TPH as diesel exists in soil beneath the site at 20 feet bgs;
- two groundwater monitoring wells may still exist at the site that were not property decommissioned

If you have any questions, please contact me at (510) 567-6762.

eva chu
Hazardous Materials Specialist

enclosures: 1. Case Closure Letter 2. Case Closure Summary

c: Mark Gomez, City of Oakland, Public Works, 250 Frank H Ogawa Plaza, Suite 5301
Oakland, CA 94612 (w/o)
files (mayer11)

Pb #01-1633

ENVIRONMENTAL PROTECTION

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

NOV 31 AM 9:41

QUALITY CONTROL BOARD

NOV 07 1998

CALIFORNIA REGIONAL WATER

I. AGENCY INFORMATION

Date: November 4, 1998

Agency name: Alameda County-HazMat
City/State/Zip: Alameda, CA 94502
Responsible staff person: Eva Chu

Address: 1131 Harbor Bay Pkwy
Phone: (510) 567-6700
Title: Hazardous Materials Spec.

II. CASE INFORMATION

Site facility name: Mayer Development
Site facility address: 344 105th Ave, Oakland, CA 94603
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 4242
URF filing date: 2/22/89 SWEEPS No: N/A

Responsible Parties:

Addresses:

Phone Numbers:

Leon Mayer and
Carlo Christensen

753 Peralta Avenue
San Leandro, CA 94577

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	3,000	Heating Oil	Removed	2/29/89

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Leaking UST (holes in tank)
Site characterization complete? YES
Date approved by oversight agency: 2/4/98
Monitoring Wells installed? Yes Number: 3
Proper screened interval? Yes, 11' to 25' bgs
Highest/Lowest GW depth below ground surface: Not well documented, but depth to groundwater appears to range from ~9' to 18' bgs.
Flow direction: Westerly
Most sensitive current use: Residential
Are drinking water wells affected? No Aquifer name: Unknown
Is surface water affected? No Nearest affected SW name: NA
Off-site beneficial use impacts (addresses/locations): None
Report(s) on file? YES Where is report(s) filed?

Alameda County
1131 Harbor Bay Pkwy and
Alameda, CA 94502

Oakland Fire Dept
505 14th St, 5th Fl.
Oakland, CA 94612

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount (include units)</u>	<u>Action (Treatment or Disposal w/destination)</u>	<u>Date</u>
Tank	1 UST	Disposed by H & H, San Francisco	2/28/89
Piping	100'	Unknown	Jan '90
Rinsate	2,000 gallon	Disposed by H & H, San Francisco	2/29/89
Soil	~5,000 cy 60 cy	Remediated and re-used onsite BFI Landfill, Livermore	9/1992

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

<u>Contaminant</u>	<u>Soil (ppm)</u>		<u>Water (ppb)</u>	
	<u>Before¹</u>	<u>After²</u>	<u>Before⁴</u>	<u>After⁵</u>
TPH (Gas)	1,100	NA	63	ND
TPH (Diesel)	4,600	660	ND	ND
Benzene	ND	ND ³	ND	ND
Toluene	.071	.003 ³	ND	ND
Ethylbenzene	.017	ND ³	ND	ND
Xylenes	.038	ND ³	ND	ND
Oil & Grease	10,000	130 ³	1.1	ND
Other SVOC	see note 6			

- NOTE: 1 soil sample from the tank pit, Jan 1990
 2 soil sample collected after ~5,000 cy of soil was excavated. TOG was not analyzed but most of this contamination was probably removed during overexcavation activities, 10/90
 3 soil sample from trenches dug in 105th Ave, Mar 1993
 4 groundwater concentrations from well GW-3, downgradient from former excavation.
 5 most recent sampling event, 10/91
 6 up to 1.4ppm pyrene, 3.9 ppm naphthalene, 1 ppm acenaphthene, 2 ppm fluorene, 0.9ppm N-nitrosodiphenylamine, 4.8ppm phenanthrene, 0.8ppm anthracene, and ~15ppm 2-methylnaphthalene were found in soil from the former tank pit.

IV. CLOSURE

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

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

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

Site management requirements: **None**

Should corrective action be reviewed if land use changes? **No**

Monitoring wells Decommissioned: **Yes**

Number Decommissioned: 1 Number Retained: 2

List enforcement actions taken: **NA**

List enforcement actions rescinded: **NA**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: **Eva Chu**

Title: **Haz Mat Specialist**

Signature: 

Date: 11/6/98

Reviewed by

Name: **Barney Chan**

Title: **Haz Mat Specialist**

Signature: 

Date: 11/4/98

Name: **Thomas Peacock**

Title: **Supervisor**

Signature: 

Date: 11-6-98

VI. RWQCB NOTIFICATION

Date Submitted to RB: 11/9/98

RB Response:

RWQCB Staff Name: **Chuck Headlee**

Title: **EG**

Signature: 

Date: 11/20/98

VII. ADDITIONAL COMMENTS, DATA, ETC.

The site was formerly a nursery for the cultivation of cut flowers. A private residence was also on the site. Recently the site was redeveloped and 36 low cost single-family dwellings were constructed. (See Figs 1 and 2)

On the northwest side of the property, ~5' from the sidewalk (105th Ave), was an UST which stored oil used to heat the greenhouses (see Fig 4). In December 1989 a trench was reportedly dug parallel to the UST. A soil sample was collected from 7' bgs along the west side of the UST and analyzed for TPHg, TPHd, TOG, SVOC, HVOC, Title 22 metals, chlorinated pesticides and PCBs. The soil from the trench was stained and emitted a strong hydrocarbon odor. Soil analytical results identified heavy petroleum in the diesel (2,560 ppm) and higher carbon range (4,370 ppm TRPH). Low levels of SVOC were also detected (0.6ppm naphthalene).

A second soil sample was taken in the area of the former greenhouses at a depth of 18". This soil sample was analyzed for chlorinated pesticides and PCBs. These constituents were not detected above the laboratory detection limits. A site plan is not available showing the location where this soil sample or the above sample was collected

On February 29, 1989 the UST was removed. Holes were noted on the bottom of the tank. Hydrocarbon liquid was oozing out of the tank. It was not until January 1990 that the product pipeline from the UST to the boiler, ~100' away, was removed. A total of 10 soil samples were collected from the piping trench, the tank pit, and from the stockpiled soil (see Figs 3 and 4, and Table 1 for description and approximate sampling locations). A maximum of 10,000 ppm TOG, 4,600 ppm TPHd, and 1,100 ppm TPHg were identified. Trace to non-detect levels of BTEX were identified. Low levels of SVOCs were also found (1.4 ppm pyrene, 3.9 ppm naphthalene, 1.0 ppm acenaphthene, 2.0 ppm fluorene, 0.9 ppm N-nitosodiphenylamine, 4.8 ppm phenanthrene, 0.8 ppm anthracene, and ~15 ppm 2-methylnaphthalene). Chlorinated pesticides were not found above the detection limits in surface soil.

In February 1990 three groundwater monitoring wells, GW-1 through GW-3, were installed. Soil samples (collected at 5' intervals from each borehole) and water samples did not contain TPHd or TRPH. Low levels of several SVOC compounds were identified in soil and groundwater. Groundwater flowed to the west. (See Fig 4 and Table 2)

In May 1990 three trenches were excavated to delineate the extent of soil contamination. Soil samples (T-1 through T-4) were collected (two from the tank excavation and two from a trench extending from the tank excavation). Low levels of TPHd (32ppm) were found in sample T-4. Low levels of TOG (up to 810 ppm) were found in sample T-4. (See Fig 5, Table 3)

The tank pit was overexcavated, destroying well GW-2. Groundwater was encountered at ~18' bgs. In September 1990 eight soil samples were collected from the sidewalls, just above groundwater. Five bottom pit samples were also collected at 20' to 25'bgs. Soil samples were analyzed for TPHd. Only samples 13 and 14 had hits of TPHd at 58 ppm and 660 ppm, respectively (see Fig 6 and 7). Stockpiled soil was also analyzed for TPHd and TPHmo. Up to 180 ppm TPHmo and ND levels of TPHd were identified.

A total of ~5,000 cy of soil was excavated and segregated into visibly clean and dirty stockpiles. The "dirty" stockpiled soil was remediated onsite using enhanced microbial degradation. Approximately 60 cy of the dirty soil was taken to BFI Landfill for disposal and the remaining "remediated" soil was used to backfill the pit. "Clean" soil from other areas of the site was also used to backfill the pit.

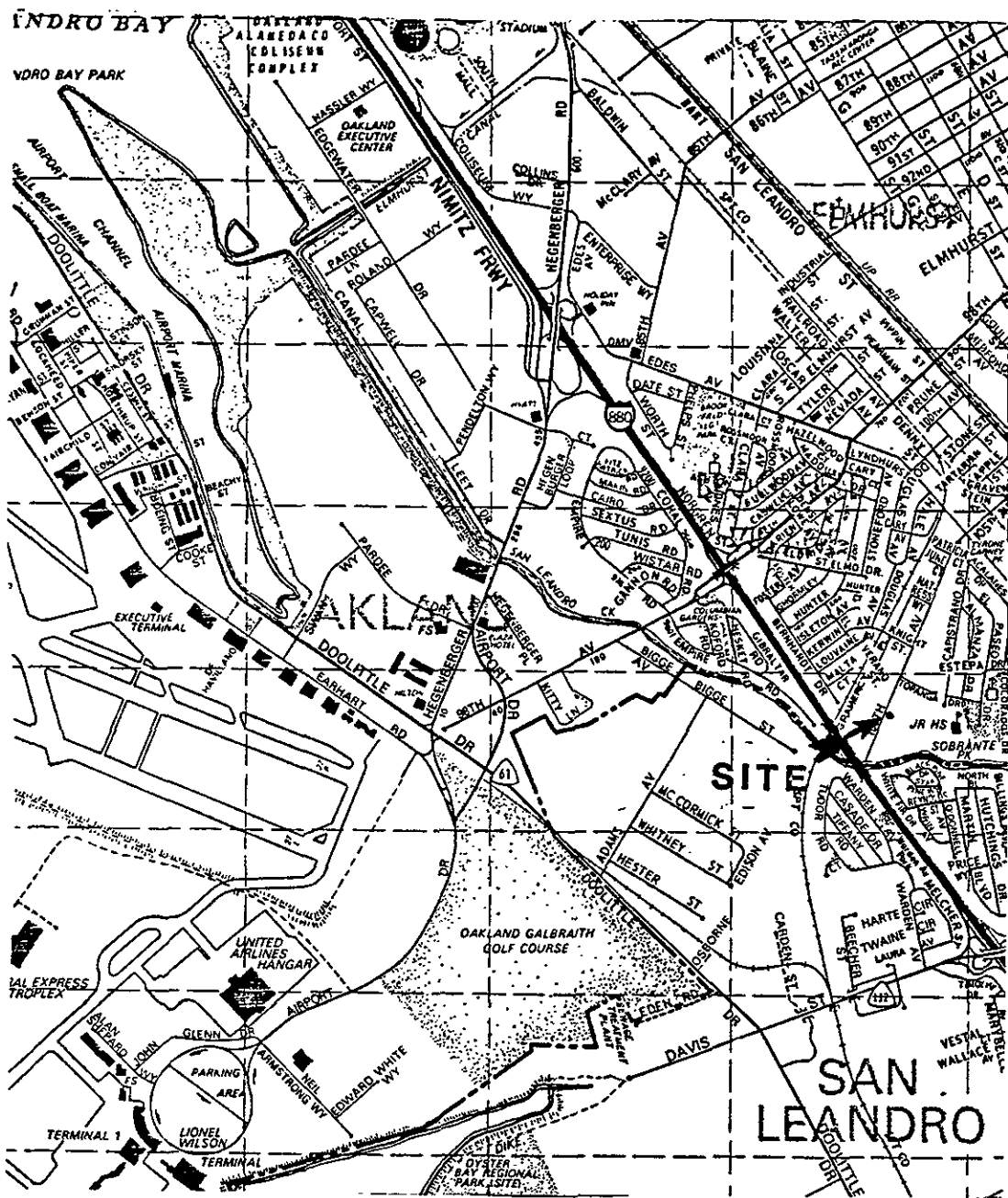
Between November 1992 and March 1993 three trenches running perpendicular to 105th Avenue were excavated for the installation of utility lines. The east trench was ~5' from and downgradient the former tank pit excavation. Soil samples were collected from each trench to delineate the extent of hydrocarbon contamination from the former UST. A total of six soil samples were analyzed for TPHd, TPHmo, BTEX, and TOG. Low or non-detectable concentrations of these constituents were identified. (See Fig 8, Table 4)

Soil encountered beneath the site was primarily clay. Groundwater was encountered at ~18'bgs in the monitoring wells. Clay sediment does not readily transport water, as demonstrated when little groundwater entered the pit excavation, even when the excavation reached a depth of 25' bgs.

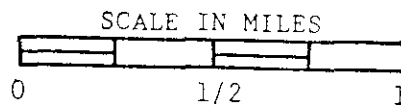
Groundwater was sampled at five different events (2/90, 4/90, 4/91, 8/91, and 10/91). Little or no TPHd, TPHg, TOG, BTEX, or SVOC were detected (see Table 5). It appears most of the hydrocarbon impacted soil was excavated, remediated, and reused. Groundwater contamination appears insignificant and would not pose a risk to human health. Continued monitoring is not warranted.

In summary, case closure is recommended because:

- o the leak and ongoing sources have been removed;
- o the site has been adequately characterized;
- o the dissolved plume is not migrating;
- o no water wells, surface water, or other sensitive receptors are likely to be impacted; and,
- o the site presents no significant risk to human health or the environment.



MAP SOURCE:
 THOMAS BROTHERS, 1989 edition



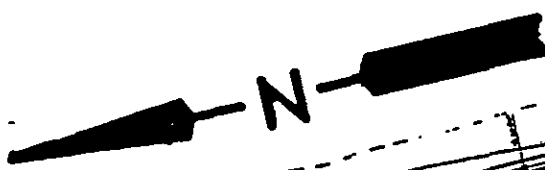
SCS ENGINEERS
 STEARNS CONRAD AND SCHMIDT
 CONSULTING ENGINEERS INC
 6761 D SIERRA COURT
 DUBLIN, CA 94568

VICINITY MAP
 VERL'S CONSTRUCTION, INC.
 OAKLAND, CALIFORNIA

Project No 0389060.00

Fig Plate
1

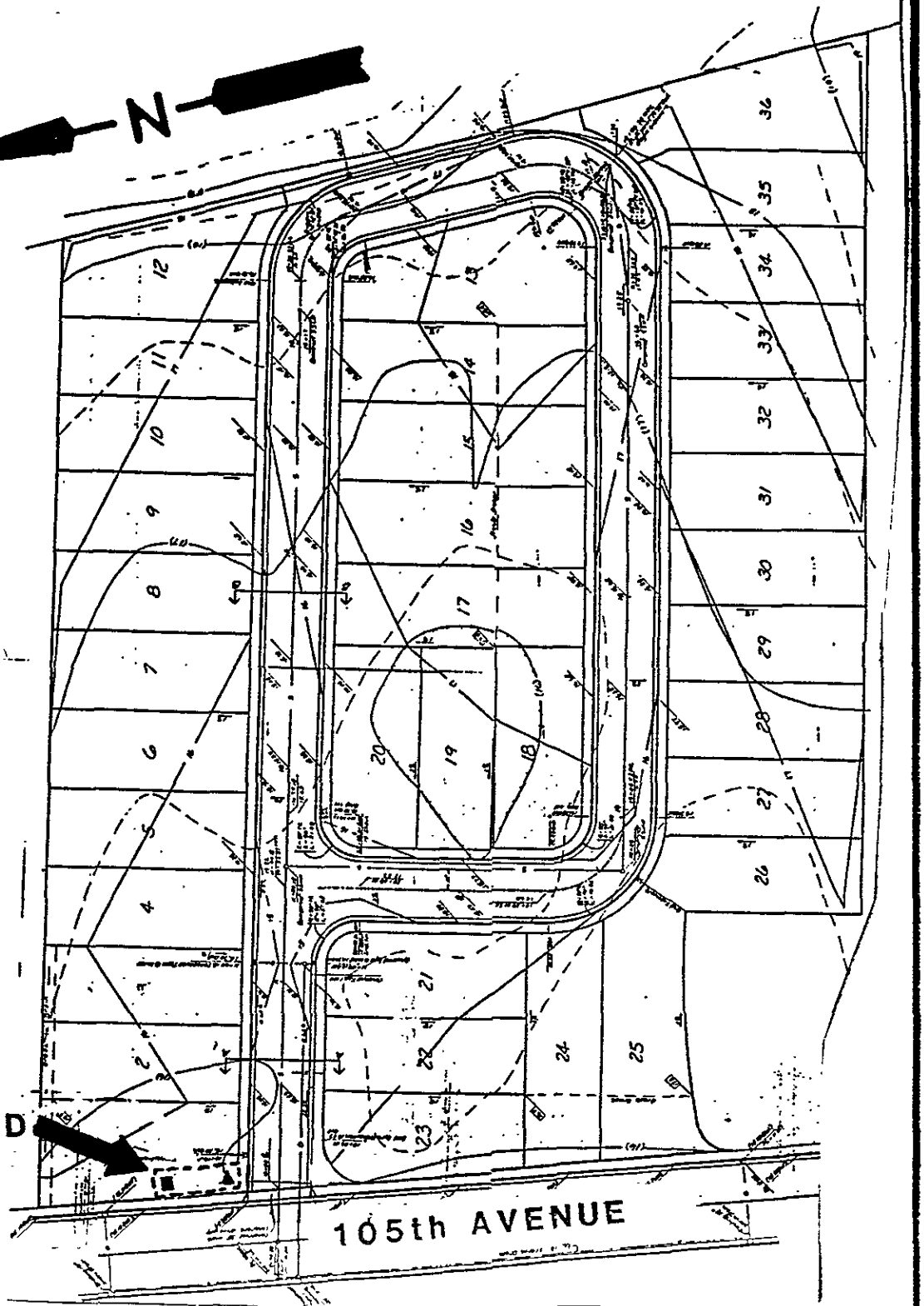
Date 7-13-90



LEGEND

- ▲ S-1
- S-2

**TANK
REMOVED**



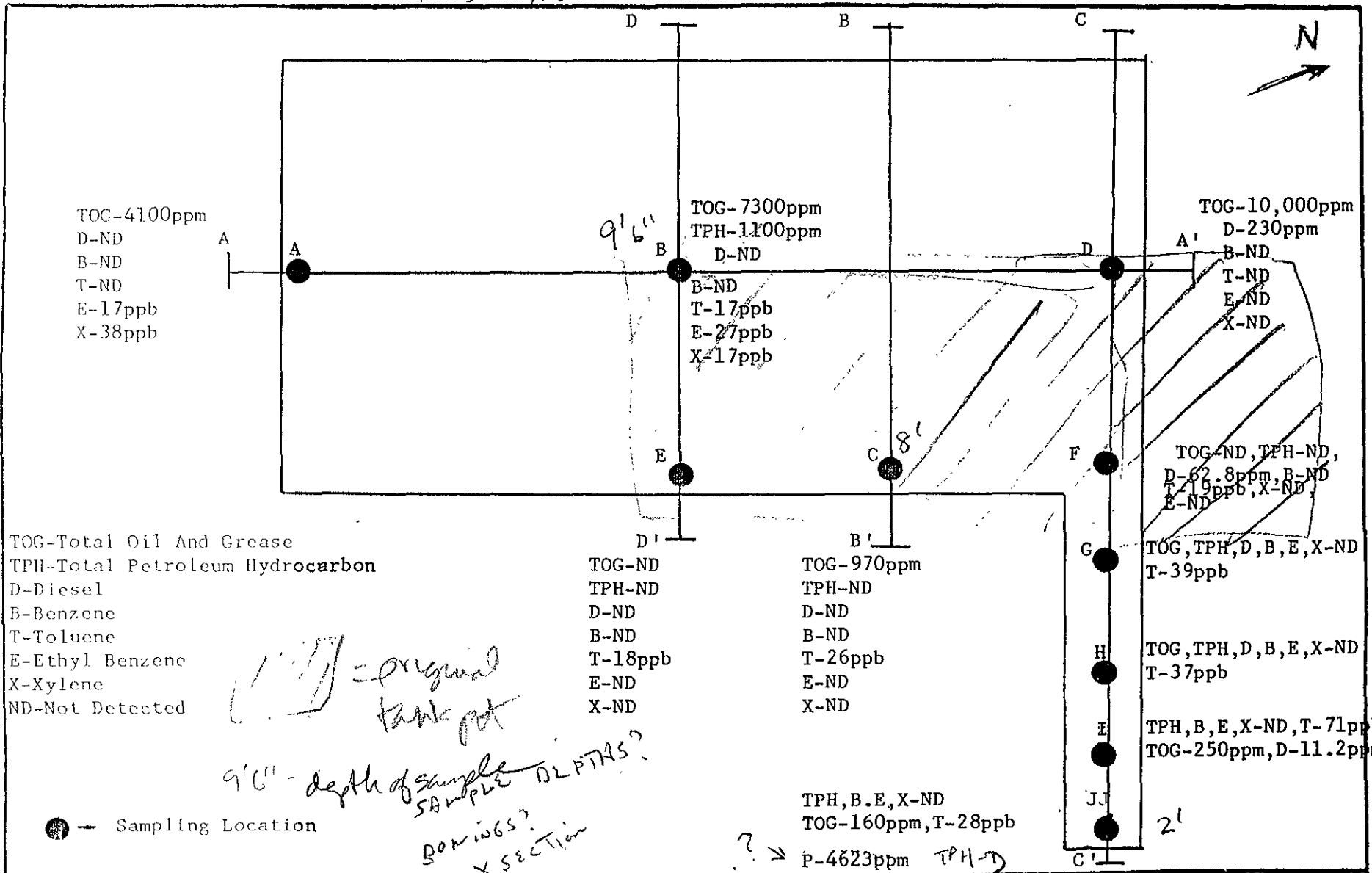
SCS ENGINEERS

STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.

6761 D SIERRA COURT

SAMPLE LOCATIONS
VERL'S CONSTRUCTION, INC.
OAKLAND, CALIFORNIA

105th AV



SCS ENGINEERS

STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.

6761 SIERRA COURT, SUITE D
DUBLIN, CALIFORNIA 94568-2611

SAMPLING LOCATIONS AND CROSS-SECTIONS

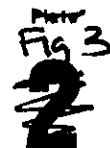
342-105th Avenue
Oakland, California

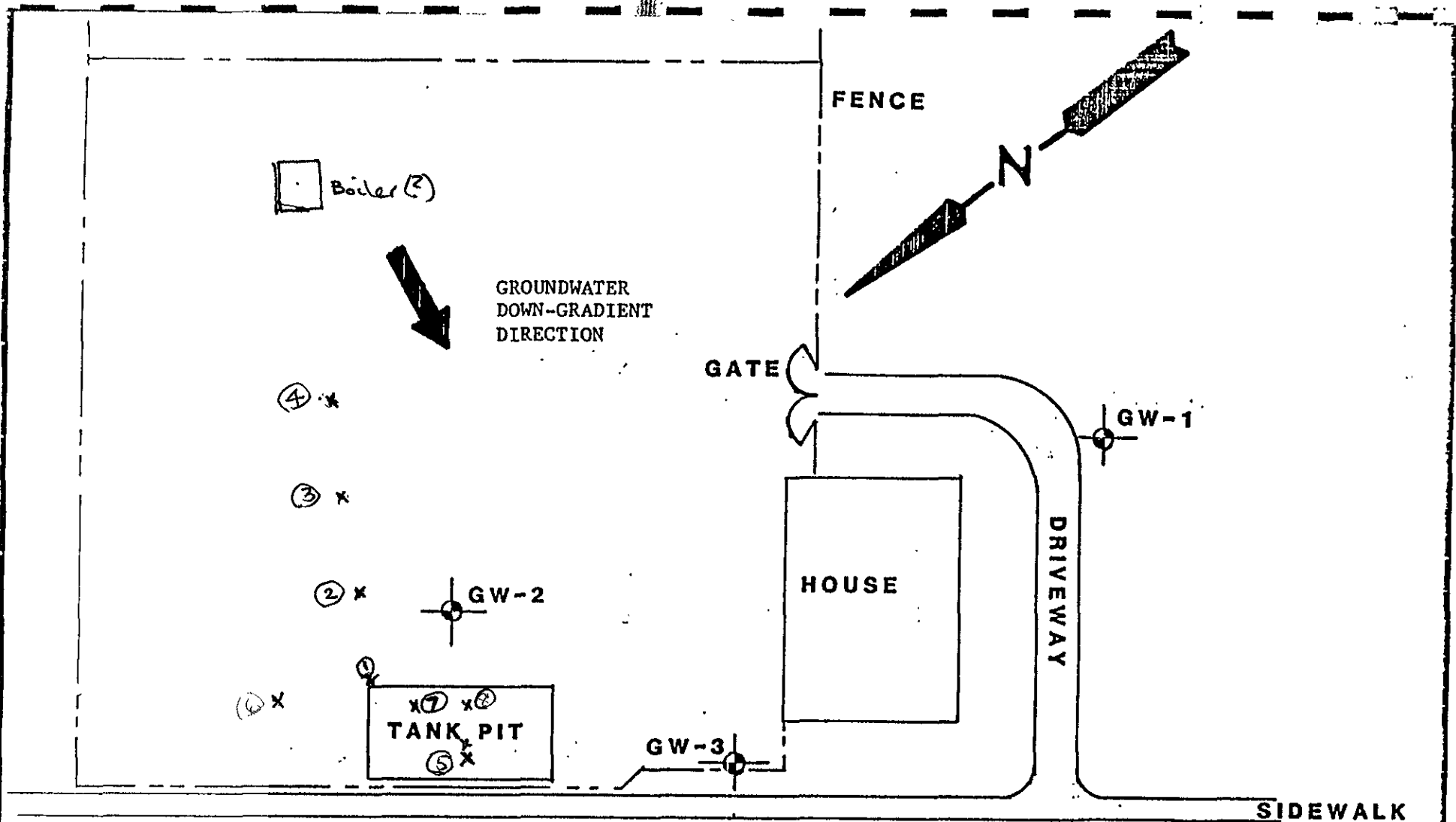
Project No.

317089


Date:

3-30-90





105th AVENUE


 GROUNDWATER MONITORING WELL

SCALE: 1" = 30'



SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS, INC.
 6751-D SIERRA COURT
 DUBLIN, CA 94568

LOCAL GROUNDWATER DOWN-GRADIENT DIRECTION
 342-105th AVENUE
 OAKLAND, CALIFORNIA

Project No. 0389060.01

Date: 3-13-90

TABLE 1

SAMPLING LOCATIONS
342 - 105TH AVENUE, OAKLAND

JANUARY 18, 1990

Samples 1-4 are from under the product pipeline leading from the tank to the boiler. Samples were collected at an approximate depth of 24" below grade.

1. At beginning of pipeline; 61' from northeast fence
2. 20' along pipeline; 58' from northeast fence
3. 40' along pipeline; 55' from northeast fence
4. 60' end of pipeline; 51' from northeast fence
5. Tank pit bottom; depth of 9'9"; 6' from sidewalk; 80' from northeast fence corner

Samples 6-8 are from the excavation on the east side of the tank pit.

6. Sidewall; depth of 7'6"; 20' from sidewalk; 41' from northeast fence corner
7. Excavation bottom; depth of 8'; 20' from sidewalk; 70' from northeast fence corner
8. Sidewall; depth of 7'6"; 20' from sidewalk; 80' from northeast fence corner

Samples 9 & 10 were taken from the pile of topsoil located on the north side of the house. Samples were collected by placing soil in a brass tube with a trowel, every five feet along the pile, starting at the northwest end. Excavation personnel indicated that the top of the pile represented soil that was at an approximate depth of 5' below grade.

9. Composite top soil, 0'-30' along the pile
10. Composite top soil, 35'-70' along the pile

cont. Table 1

TPH AS DIESEL
ANAYSIS RESULTS REPORT

Lab Name: TMA/Norcal
Client: GARY TOMPKINS & ASSOCIATES
Matrix: soil

Date Received: 12 1-18-90
Date Analyzed: 1- 2-8-90

Analysis/Method: MOD-8015 FULX

TMA/Norcal ID	Client ID	Diesel (mg/kg)	Detection Limits (mg/kg)
6937-1-1	#1	<10 mg/kg	10 mg/kg
6937-1-2	#2	<10 mg/kg	10 mg/kg
6937-1-3	#3	11.2 mg/kg	10 mg/kg
6937-1-4	#4 60' end	4623 mg/kg	10 mg/kg
6937-1-5	#5	<10 mg/kg	10 mg/kg
6937-1-6	#6	62.8 mg/kg	10 mg/kg
6937-1-7	#7	<10 mg/kg	10 mg/kg
6937-1-8	#8	<10 mg/kg	10 mg/kg
6937-1-9	#9	<10 mg/kg	10 mg/kg
6937-1-10	#10	<10 mg/kg	10 mg/kg

Renee Doherty
Analyst

[Signature]
Data Release Authorized By

**Analysis Results Report
Total Petroleum Hydrocarbons
Soil Matrix**

Client: GARY TOMPKINS & ASSOC.
 Sample Delivery Group: 1
 Analysis/Method: MOD 8015 P & T

Date Received: 1/18/90
 Date Analyzed: 1/23/90
 Date Report: 1/30/90

Cont. Table 1

TMA Sample ID	Client ID	Gasoline (mg/Kg)	Detection Limits (mg/Kg)
METHOD BLANK	N. A.	<10	10
6937-1-1	#1 TANK 0' EXCAV	<10	10
6937-1-2	#2 20' PIPELINE	<10	10
6937-1-3	#3 40' PIPELINE	<10	10
6937-1-4	#4 60' ENDPipe	<10	10
6937-1-5	#5 TANK PIT BOTTM	1100	10
6937-1-6	#6 SIDEWALL 7.5'	<10	10
6937-1-7	#7 EXCAV BOTTM 8'	<10	10
6937-1-8	#8 SIDEWALL 8.5'	<10	10
6937-1-9	#9 TOP SOIL 0-30	<10	10
6937-1-10	#10 TOP SOIL 35-70	63	10

G. Smith

 Analyst

[Signature]

 Data Release Authorized By

TMA/Norcal ID: 6937-1

Page 4

February 14, 1990

TABLE I

UNITS = mg/Kg			
TMA/Norcal ID	Client ID	Petroleum * Hydrocarbons	Detection Limit
6937-1-1	0' at excav.	<70	70
6937-1-2	20' under pipe	<70	70
6937-1-3	40' under pipe	250	70
6937-1-4	60' end	160	70
6937-1-5	tank pit bottom	7300	70
6937-1-6	sidewall 41'	<70	70
6937-1-7	excav. bottom	970	70
6937-1-8	sidewall 80'	<70	70
6937-1-9	topsoil 0'- 30'	84	70
6937-1-10	topsoil 35'- 70'	170	70

* EPA Method 9071, Oil & Grease including Petroleum Hydrocarbons.

TABLE 2

ANALYTICAL RESULTS OF THE
SOIL AND GROUNDWATER SAMPLES

Soil

Sample No.	8015-D	8270		
		Di-N-butylphthalate	Bis (2-ethylhexyl)phthalate	Di-N-octylphthalate
GW1-5	ND	710 ppb	1500 ppb	ND
GW1-10	ND	11000 ppb	480 ppb	34 ppb
GW1-15	ND	12000 ppb	680 ppb	34 ppb
GW1-20	ND	5100 ppb	540 ppb	73 ppb
GW1-25	ND	100 ppb	3500 ppb	ND
GW2-5	ND	470 ppb	140 ppb	ND
GW2-10	ND	290 ppb	180 ppb	ND
GW2-15	ND	240 ppb	3100 ppb	ND
GW2-20	ND	5900 ppb	ND	ND
GW2-25	ND	160 ppb	51 ppb	ND
GW3-5	ND	460 ppb	670 ppb	85 ppb
GW3-10	ND	120 ppb	2600 ppb	98 ppb
GW3-15	ND	140 ppb	250 ppb	ND
GW3-20	ND	580 ppb	780 ppb	ND
GW3-25	ND	190 ppb	320 ppb	ND
	503E			
GW1-5	ND			
GW1-10	ND			
GW1-15	ND			
GW1-20	ND			
GW1-25	ND			
GW2-5	ND			

ND = Not Detected

Detection Limits: 8015-Diesel - 1000 ppb
 503 - .10 ppm
 Di-N-butylphthalate - 20 ppb
 Bis (2-ethylehhexyl)phthalate - 20
 Di-N-octylphthalate - 30 ppb

TABLE 2 (cont'd)

Soil

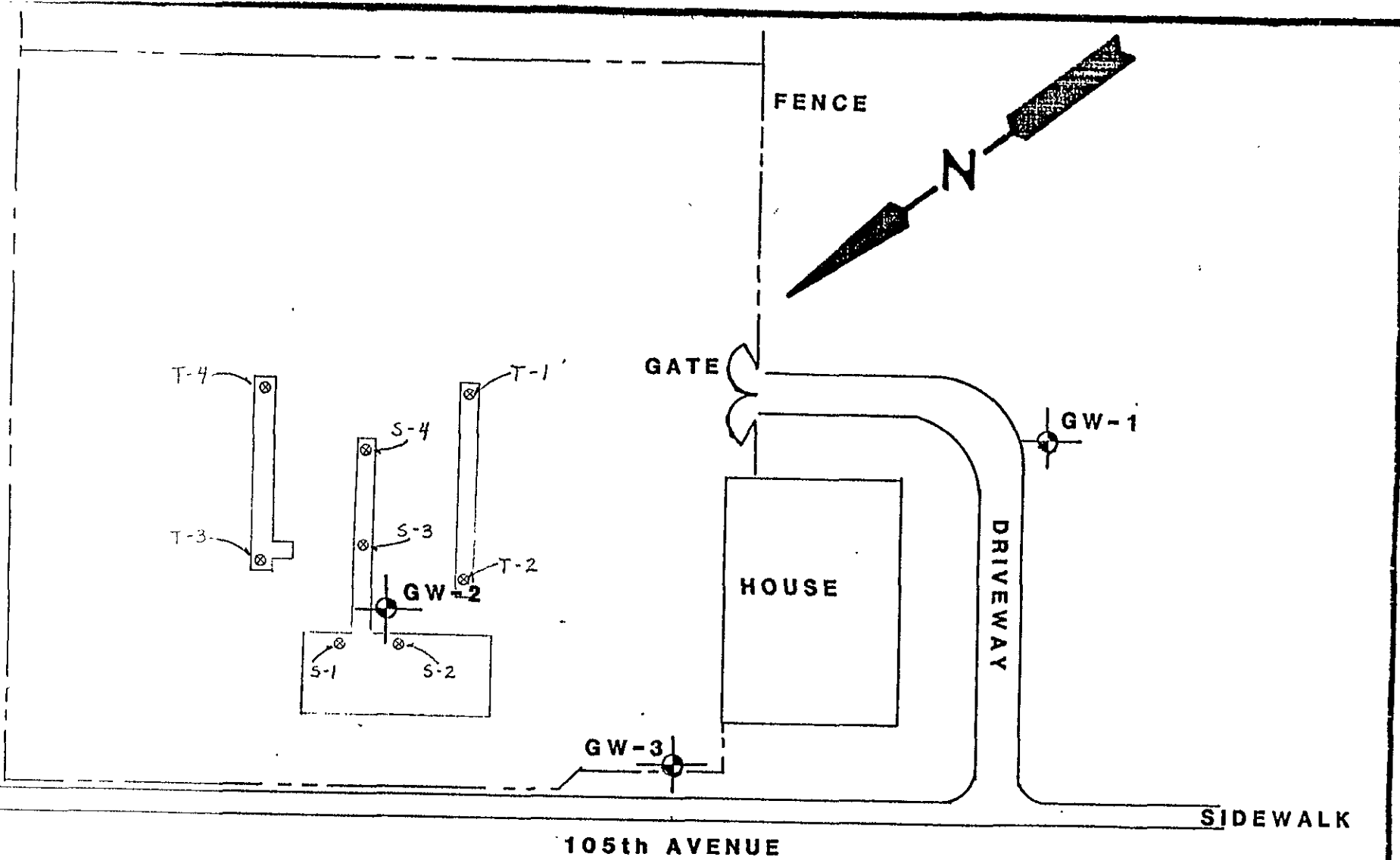
Sample No.	503E
GW-10	ND
GW2-15	ND
GW2-20	ND
GW2-25	ND
GW3-5	ND
GW3-10	ND
GW3-15	ND
GW3-20	ND
GW3-25	ND


Detection Level: 503E - 10 ppm

Water

	8015-D	625	503E
		Bis(2-ethylhexyl)phthalate	
GW1-1W	ND	ND	-
GW2-1W	ND	ND	-
GW3-1W	ND	75 ppb	ND

Detection Levels: 8015 - Diesel - 0.5 ppb
Bis(2-ethylhexyl)phthalate - 50 ppb
503E - 0.5 ppb



 GROUNDWATER MONITORING WELL

SCALE: 1" = 30'



SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS, INC.
 6761-O SIERRA COURT
 DUBLIN, CA 94568

SAMPLE LOCATIONS
 342-105th Avenue
 Oakland, California

Project No. 0389060.01

Date: May 31, 1990

INDEX

05/25/90



2850 WALNUT AVENUE
LONG BEACH, CALIFORNIA 90806
(213) 595-9324
FAX (213) 595-6709

Table 3

MEMO

To: John Cummings

From: Curtis B. Jenkins

May 25, 1990

Job No.: 0389060.01

Page 1 of 1

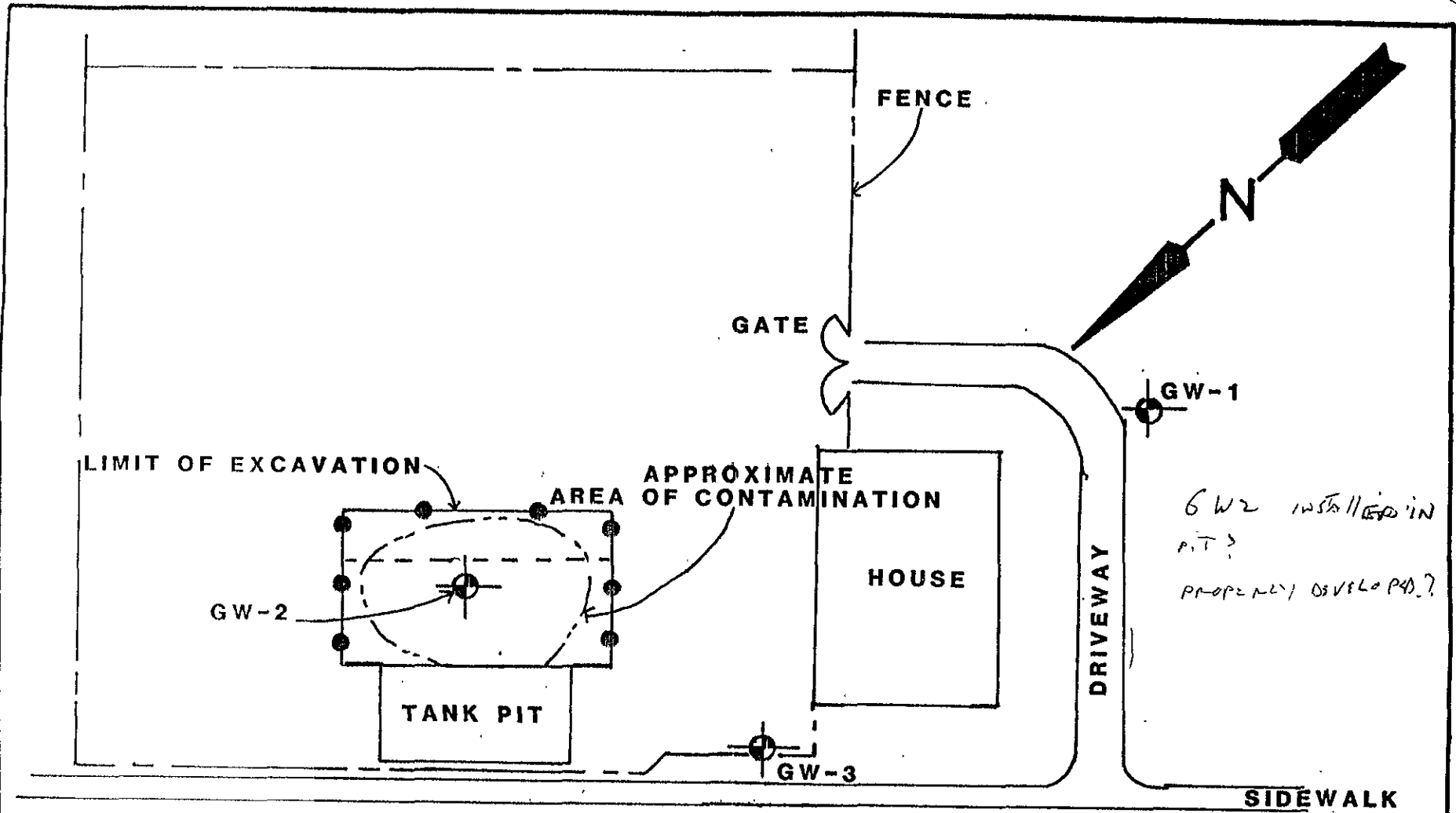
LABORATORY REPORT

Samples: Four (4) soil samples from Verls' Construction, 105th Avenue, Oakland, CA received 5/4/90, analyzed 5/17/90.

Sample ID	EPA 8015-D	SM 503E
	-----mg/kg-----	
Tg-1	ND	264
Tg-2	ND	134
Tg-3	ND	312
Tg-4	32 (D)	810
Detection Limit	10	10
ND - Not Detected		
D - Diesel		

David Sincerbeaux
David Sincerbeaux
Chemist

Curtis B. Jenkins
Curtis B. Jenkins
Vice President
Analytical Services



GW2 installed in
PIT?
PROPERLY DEVELOPED?

- ⊕ Groundwater Monitoring Well
- Proposed Sampling Locations

105th AVENUE

SCALE: 1" = 30'



SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS, INC.
 6761 SIERRA COURT, SUITE D
 DUBLIN CALIFORNIA 94568-2611

Area of Excavation and Sampling Locations
 342 - 105th Avenue
 Oakland, California

Project No. 317089

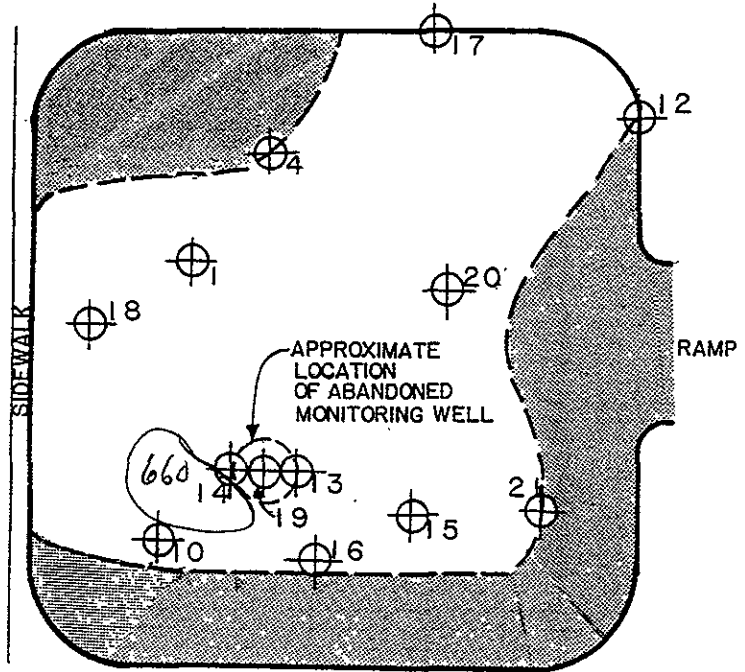
Date: 4-6-90

FIG 6

Plate
1



105TH AVENUE

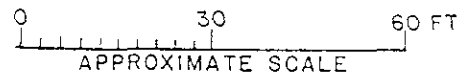


NOTES

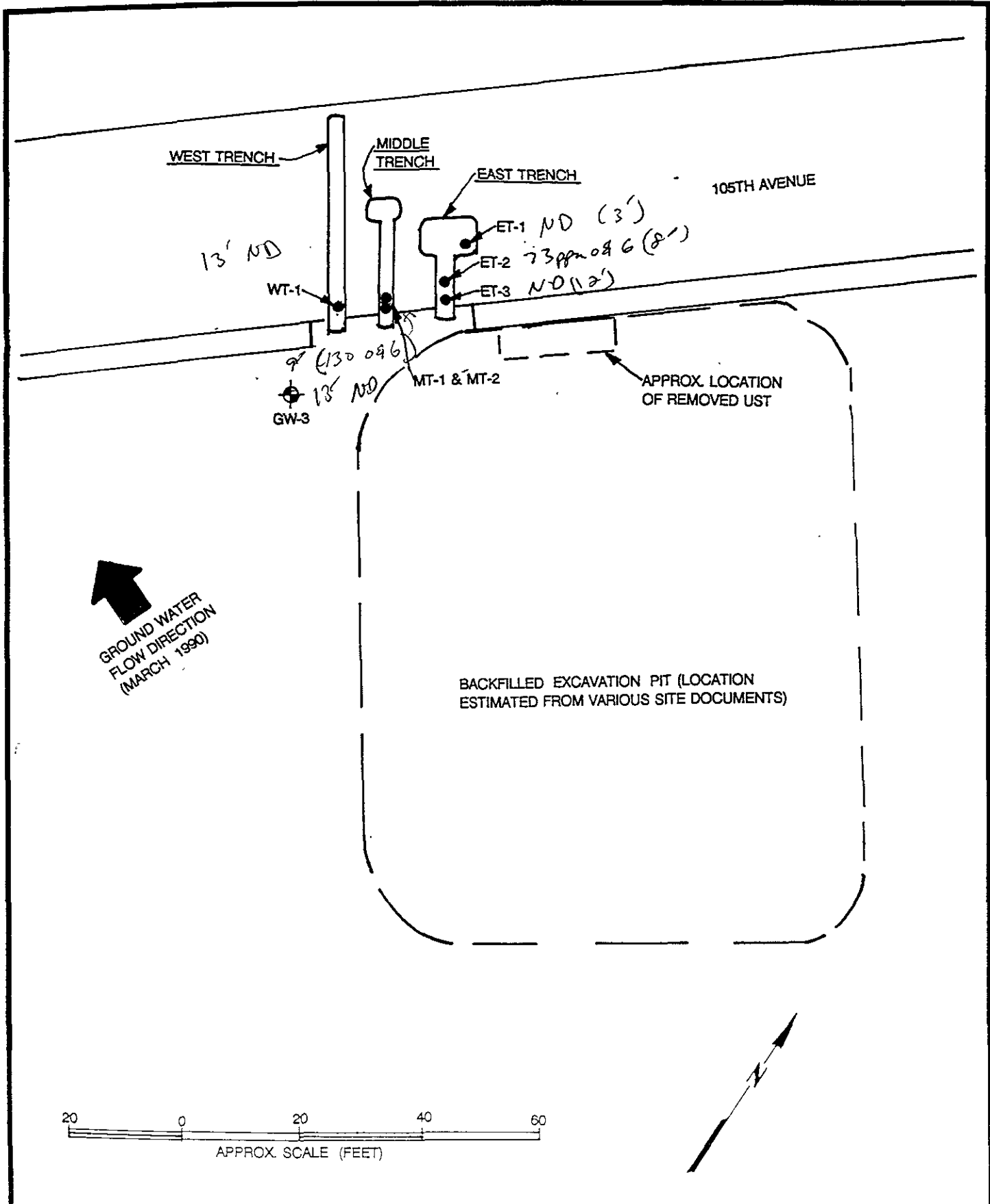
1. MAP BASED ON APPROXIMATE FIELD MEASUREMENTS (08/30/90).
2. SOIL SAMPLE NO.'S 4,10,12,13,14,16,17 AND 21 TAKEN FROM THE EXCAVATION WALLS.
3. SOIL SAMPLE NO.'S 1,15,18,19, AND 20 TAKEN FROM THE EXCAVATION BASE.
4. SOIL SAMPLE NO.'S 8 AND 23 TAKEN FROM SOIL PILE NO.1 (SEE FIGURE NO.2).
5. SOIL SAMPLE NO.22 TAKEN FROM SOIL PILE NO.2 (SEE FIGURE NO.2).

EXPLANATION

- APPROXIMATE EXCAVATION DEPTH 10- FT
- APPROXIMATE EXCAVATION DEPTH 15 TO 25- FT
- APPROXIMATE SOIL SAMPLE LOCATION



NOTES	DATE 10/04/90	ENVIRONMENTAL GEOTECHNICAL CONSULTANTS, INC CONSULTANTS IN APPLIED EARTH SCIENCE	FIGURE NO.	
	JOB NO. E158-01		SOIL SAMPLE LOCATION MAP FORMER TURINI NURSERY 344 105TH AVENUE, OAKLAND, CALIFORNIA VERL'S CONSTRUCTION, INC	
	DWG NO. E158-01/3			
	DRAWN N TOOR			
	CHK'D R SCHNEIDER			
APP'D J HICKS	REV NO.			



DESIGNED BY:	CHECKED BY:
DRAWN BY:	SCALE:
DWG. NO.:	

FIGURE 2
 SITE PLAN - NOV. 1993
 CWEC 20533-001-01

DATE:	FIGURE: 8
CENTURY WEST ENGINEERING	

Table 4
SUMMARY OF SOIL ANALYTICAL RESULTS
105th Street UST Site

Sample ID	Sample Depth	Constituent (ppm)						
		TPH-D	TPH-MO	B	T	X	E	TOG
East Trench								
ET-1	3.0 ft	ND(1) ¹	ND(10)	ND(.0025)	0.003	ND(.0025)	ND(.0025)	ND(50) ²
ET-2	8.5 ft	ND(1)	ND(10)	ND(.0025)	ND(.0025)	ND(.0025)	ND(.0025)	73
ET-3	12.0 ft	ND(1)	ND(10)	ND(.0025)	ND(.0025)	ND(.0025)	ND(.0025)	ND(50)
Middle Trench								
MT-1	9.0 ft	40 ³	ND(10)	ND(.0025)	ND(.0025)	ND(.0025)	ND(.0025)	130
MT-2	13.0 ft	ND(1)	ND(10)	ND(.0025)	ND(.0025)	ND(.0025)	ND(.0025)	ND(50)
West Trench								
WT-1	13.0 ft	ND(1)	ND(10)	ND(.0025)	ND(.0025)	ND(.0025)	ND(.0025)	ND(50)

- 1 - Not detected above the value expressed in the parentheses.
- 2 - The NET Pacific data report for this sample reports TOG both as polar (animal greases) and nonpolar (hydrocarbons). However, because this investigation is only concerned with hydrocarbon-derived oil and grease, we are only reporting nonpolar oil and grease. Laboratory data reports for all other samples report only nonpolar oil and grease.
- 3 - The NET Pacific data report states that "The positive result for Petroleum Hydrocarbons as Diesel appears to be due to a combination of heavier hydrocarbons and Diesel."

TABLE 5

Summary, Groundwater Analyses

	<u>8015(D)</u>	<u>8015(G)</u>	<u>625</u>	<u>503E</u> Of G	<u>BTX&E</u>
<u>SCS Eng. (3-19-90)</u>					
GW-1	ND	-	ND	-	
GW-2	ND	-	ND	-	
GW-3	ND	-	75(1)	ND	
<u>SCS Eng. (4-4-90)</u>					
GW-3	ND	-	-	ND	
<u>SJV Cons. (4-21-91)</u>					
GW-1	ND	ND	ND	ND	ND
GW-3	ND	ND	ND	ND	ND
<u>SJV Cons. (8-12-91)</u>					
GW-1	ND	63		ND	
GW-3	ND	ND		ND	
<u>SJV Cons. (10-22-91)</u>					
GW-1	ND	ND		1.1	ND
GW-3	ND	ND		ND	ND

(1) Bis(2-ethylhexyl)phthalate

BORING LOG

Project Verl's - 105th Avenue

Hole/Well # GW-1

Location 342 - 105th Ave, Oakland

Diameter of Drill Hole 8"

Job # 0389060.01

Total Depth of Hole 25'

Geologist/Engineer Ed MacDaniel

Date Started 2/22/90

Drill Agency Datum Exploration




Date Completed 2/22/90

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	N-VALUE	SAMPLE	GRAPHIC SYMBOL	DESCRIPTION
2 4 6 8 10 12 14 16 18 20 22					<p>Clay, silty, very dark gray (2.5Y, 2.5/0), moist, stiff, no petroleum odor, some dark brown patches</p> <p>Clay, w/ very fine grained sand, gray brown (10YR, 5/2), moist, no petroleum odor</p> <p>Clay, dark grayish brown (10YR, 4/2), moist, no petroleum odor</p> <p>Sand, very fine grained, clay rich, brown (7.5 YR, 5/4), very moist, no petroleum odor</p>

BORING LOG

Project Verl's - 105th Avenue
 Location 342 - 105th Ave, Oakland
 Job # 0389060.01
 Geologist/Engineer Ed MacDaniels
 Drill Agency Datum Exploration

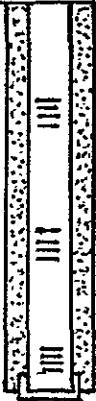
Hole/Well # GW-1
 Diameter of Drill Hole 8"
 Total Depth of Hole 25'
 Date Started 2/22/90
 Date Completed 2/22/90

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	N-VALUE	SAMPLE	GRAPHIC SYMBOL	DESCRIPTION
20 22 24 26	 <p>End Cap</p>		 		 Clay, sand-rich, gray brown (10 YR, 5/2), moist, no petroleum odor

BORING LOG

Project Verl's - 105th Avenue
 Location 342 - 105th Ave, Oakland
 Job # 0389060.01
 Geologist/Engineer Ed MacDaniel
 Drill Agency Datum Exploration

Hole/Well # GW-2
 Diameter of Drill Hole 10½"
 Total Depth of Hole 25'
 Date Started 2-22-90
 Date Completed 2-22-90

DEPTH IN FEET	WELL CONSTRUCTION DETAIL	N-VALUE	SAMPLE	GRAPHIC SYMBOL	DESCRIPTION
20	 <p style="text-align: center;">End Cap</p>		/		
22					
24					Clay, silty, gray (7.5 YR, 4/0), moist, no petroleum odor
26			/		