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

RO0000381

September 20, 2002

Mr. Mike Grant
Union Pacific Railroad
49 Stevenson St., 15th Floor
San Francisco, CA 94105

Re: Fuel Leak Site Case Closure for 5th Ave. and 7th St., Oakland, CA 94606

Dear Mr. Grant:

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 12 ppm TPH as diesel and 43 ppm Total Recoverable Petroleum Hydrocarbons, exists in soil beneath the site;
- up to 690 ppb TPH as diesel, 880 ppb Total Extractable Petroleum Hydrocarbons, 0.84 ppb toluene and 1.3 ppb xylenes in groundwater beneath the site; and,
- a site safety plan must be prepared in the event excavation/trenching is proposed in the vicinity of residual soil and groundwater contamination and
- if land use changes at the site, the closure must be revisited to determine if any additional actions are required .

If you have any questions, please contact me at (510) 567-6721.

Donna L. Drogos, P E.
LOP Program Manager

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

c:

Leroy Griffin
Oakland Fire Department (OES)
1605 MLK Jr Way
Oakland, CA 94612

Ms. Betty Graham
Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

Ms. Shari Knieriem
Underground Storage Tank Cleanup Fund
State Water Resources Control Board
P.O. Box 944212
Sacramento, CA 94244-2120

files, D. Drogos

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September 20, 2002

Mr. Mike Grant
Union Pacific Railroad
49 Stevenson St., 15th Floor
San Francisco, CA 94105

Dear Mr. Grant:

Subject: Fuel Leak Site Case Closure 5th Ave. & 7th St., Oakland, CA 94606; Case No. RO0000381

This letter confirms the completion of a site investigation and remedial action for the underground storage tank(s) 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 tank(s) 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(s) 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 Mr. Barney Chan at (510) 567-6765 if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung
Director
Alameda County Environmental Health

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: July 25, 2000

Agency name: **Alameda County-HazMat** Address: **1131 Harbor Bay Pkwy.**

City/State/Zip: **Alameda, CA 94502** Phone: **(510) 567-6774**

Responsible staff person: **Larry Seto** Title: **Senior HMS**

II. CASE INFORMATION

Site facility name: Union Pacific (Southern Pacific Transportation Co.)

Site facility address: 5th Ave. & 7th St., Oakland, CA 94606

RB LUSTIS Case No: Local Case No./LOP: 3748

URF filing date: 3-3-99 SWEEPS No: **N/A**

Responsible Parties:	**Addresses:**	**Phone Numbers:**
Union Pacific Railroad Contact: Mike Grant	49 Stevenson Street, 15th Floor San Francisco, CA 94105	415-541-7021

Tank No	Size in Gallons	Contents:	Closed in-place or Removed?	Date:
	7,000	Diesel	Removed	2-21-89
	7,000	Diesel	Removed	2-21-89
	7,000	Bunker C Oil	Removed	2-21-89
	7,000	Bunker C Oil	Removed	2-21-89

Leaking Underground Fuel Storage Tank Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Deterioration of underground tanks

Monitoring Wells installed? Yes Number: 3

Site characterization complete?

Date approved by oversight agency:

Proper screened interval? Yes

Highest GW depth below ground surface: 1.1' Lowest depth: 10.5'

Flow direction: Predominately to the northeast

Most sensitive current use: railroad yard

Are drinking water wells affected? No Aquifer Name:

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

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

Report(s) on file? Yes Where is report(s) filed? **Alameda County**
1131 Harbor Bay Pkwy.
Alameda, CA 94502

Oakland Fire
1605 Martin Luther King
Oakland, CA 94612

Treatment and Disposal of Affected Material:

Material	Amount (include units)	Action (Treatment or Disposal /destination)	Date
Underground tanks	4 - 10,000 gallon	Erickson Inc., Richmond, CA	2/89

Soil/hydrocarbon	500 Cu Yds.	Kettlemen Hills, CA ?	
Water/hydrocarons	4,000 gallon	Petroleum Recycling Corp. Signal Hill, CA	2/89

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm) Before[1]	Soil (ppm) After[3]	Water (ppb) Before[2]	Water (ppb) After[4]
TEPH-diesel	16,000	12.0	ND#	690
TEPH-motor oil	NA	NA	ND#	880
TRPH	NA	43.0	ND#	NA
Benzene	NA	ND	ND#	ND
Toluene	NA	ND	ND#	0.84
Ethylbenzene	NA	ND	ND#	ND
Xylenes	NA	ND	ND#	1.3
PCB's	NA	ND	NA	NA

ND - Non-Detect
NA - Not Analyzed
TEPH-Total Extractable Petroleum Hydrocarbon
TRPH-Total Recoverable Petroleum Hydrocarbon
1 - Samples collected during preliminary investigation prior to UGT removal
2# - Samples collected after well installation (4-28-94) **Note:** wells were installed too far from the former tank location
3 - Samples collected after over excavation, 2/89
4 - Grab water samples collected in Nov. '95 and March '96

Comments (Depth of Remediation, etc.): See "Additional Comments" section.

IV. CLOSURE

Leaking Underground Fuel Storage Tank Program

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:

Should corrective action be reviewed if land use changes? **Yes, if site is used other than a railroad yard, or an enclosed structure is proposed to be erected on site.**

List enforcement actions taken: None

List enforcement actions rescinded: None

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Larry Seto
Signature:
Title: Senior HMS
Date: 9-29-2000

Reviewed by
Name: Eva Chu
Signature:
Title: Hazardous Materials Specialist
Date: 7/24/00

Name: Thomas Peacock
Signature:
Title: Supervising HMS
Date: 9-27-00

VI. RWQCB NOTIFICATION

Date Submitted to RB:
RWQCB Staff Name: Chuck Headlee
Signature: Chuck Headlee
RB Response: Concur
Title: Associate Engineering Geologist
Date 10/11/00

VII. ADDITIONAL COMMENTS, DATA, ETC.

This site is used as a railroad yard. It is approximately 800 feet north of the Oakland Inner Harbor.

Leaking Underground Fuel Storage Tank Program

On February 13, 1989, Canonie Environmental took soil samples from four locations around the underground storage tanks UGTs (figs. 3 & 3a) The four soil samples contained 6,200 to 16,000 ppm of total extractable petroleum hydrocarbons (see Table 1). This preliminary sampling was required before approval of their closure plan for the UGTs by Alameda County Department of Environmental Health. This sampling was to verify Canonie's proposed method of tank removal would not further impact the site. (The UGTs were filled with a sand mixture. Canonie's closure plan proposed to expose the top surface of the tanks, and use a backhoe to remove the sand mixture. Canonie contended that because hydrocarbon compounds exist in the surrounding soil, the removal of the four UGT in this matter would not further impact the site)

On February 21,1989 four underground tanks (2-7,000 gallon diesel and 2-7,000 gallon Bunker oil) were removed from the property. The underground tank pit was over excavated, and the final limits of the excavation were 75 feet by 16 feet by 12 feet deep. The excavation at a depth of 12 feet appeared "clean" and no further excavation was performed. A total of 500 cubic yards of soil was removed. Approximately 4,000 gallons of water was pumped into a storage tank on-site and later disposed of by Petroleum Recycling Corp. No additional water entered the excavation in the remaining three days that the excavation was open. The surface of the site is granular fill material, and it appears the water has infiltrated from the surface and was trapped inside of the shoring and the low-permeability bay mud beneath the site.

On February 23, 1989, six soil samples were taken 2 feet above the bottom of the tank excavation and six samples from the bottom of the excavation. These depths correspond to 12 feet and 14 feet below ground surface (bgs). Laboratory analyses performed on the soil samples collect at 12 feet bgs identified maximum concentrations of 12 ppm TEPH and 43 ppm of total recoverable petroleum hydrocarbons (TRPH). Due to the low concentrations of hydrocarbons in the soil, the six samples collected from 14 feet bgs were not analyzed. In addition, the six samples at 12 feet bgs were composited into two samples and analyzed for PCB's. Laboratory analysis did not detect PCBs.

The excavation was backfilled with crushed rock to within one foot of the surface. Grandular roadbase was placed, compacted and slightly crowned to enhance drainage away from the area.

A soil and groundwater investigation was initiated by the drilling of three soil borings that were converted to monitoring wells (MW-1, MW-2 and MW-3) on April 13, 1994. Due to the numerous railroad tracks at the site, wells MW-2 and MW-3 were located 200 feet to 300 feet west of the former UST location. The wells were developed on April 22, 1994. The results of the laboratory analyses performed on the soil samples collected from the soil borings did not identify any concentrations of TPH(d), TPH (oil & grease) and BTEX. The results of the laboratory analyses performed on the groundwater samples collected from the monitoring wells did not identify any concentration of TPH(d), oil & grease and BTEX.

Quarterly groundwater monitoring was initiated at the site in August 1994 (3rd Quarter) and continued through the fourth quarter of 1995, a total of six quarterly monitoring events. Groundwater was determined to flow predominately to the northeast. The samples were tested for the presence of TPH(d), TPH (motor oil), BTEX, sodium chloride and Total Dissolved Solids. TPH(d) and BTEX compounds were not detected in any of the site monitoring wells during the monitoring period. TPH (motor oil) was detected once in MW-2 (3rd quarter 1994) at a concentration of 750 ppb

Leaking Underground Fuel Storage Tank Program

At the time of the initial site investigation and installation of monitoring wells, it was assumed that the underground storage tanks (UST) had been located just to the southwest of MW-1 (Figure2). This location was based on figures included in the Canonie Underground Storage Tank Removal Report. Review of other figures in the files for the UST removal, and review of rail yard maps provided by Southern Pacific indicated that the UST's had actually been located about 230 feet to the west of the originally assumed location. (Figure2)

The change in location of the former UST's meant that MW-1 was actually on the order of 250 feet downgradient of the former USTs rather than only about 100 feet downgradient. To obtain data to better characterize potential hydrocarbon impact to groundwater closer to the former tanks, three groundwater grab samples were collected on November 17th and 22nd, 1995 (GWS-1, GWS-2 and GWS-3) and a single groundwater grab sample (GWS-4) was collected on March 14, 1996. Locations of these groundwater grab samples are shown on figure 2.

Analytical results for the groundwater grab samples are summarized in Table 2. Benzene and ethylbenzene were not detected in GWS-1, GWS-2 and GWS-3. Toluene and xylenes at concentrations just above the detection limit were reported in GWS-3 and GWS-1 respectively. Petroleum hydrocarbons in the diesel range were detected in GWS-1 and GWS-2 at concentrations of 9,000 ppb and 8,400 ppb respectively. Petroleum hydrocarbons in the motor oil range were detected in GWS-1 and GWS-2 at concentrations of 2,500 ppb and 3,100 ppb respectively. The analytical results from GWS-3, the furthest downgradient grab sampling point was non-detectable for TPH(d), TPH(motor oil), and BEX. Toluene was detected at a concentration of 0.84 ppb.

The analytical results from GWS-4 shows a large difference in petroleum hydrocarbon content between the unfilter sample with no silica gel clean up and the filtered sample with silica gel cleanup. The unfiltered/ no silica gel cleanup sampled had a reported TPH(d) concentration of 120,000 ppb and a reported TPH (motor oil) concentration of 180,000 ppb. The filter/with silica gel cleanup sample had a reported TPH(d) concentration of 690 ppb and a reported TPH (motor oil) concentration of 880 ppb.

Residual TPH in groundwater ranged from ND to 880 ppb. The Tier 1 RBSL for TPH (residual fuel) provided by the RWQCB is 640 ppb. Since the hydrocarbon plume appears to be limited to the vicinity (w/100') of the former USTs, it is unlikely there will be any impact by TPH to the nearest surface body of water.

A risk-based corrective action (RBCA) Tier 1 evaluation was performed, and it was determined that the BTEX concentrations left in place did not pose a risk to human health and the environment at this site. Note: Volatilization from subsurface soils to enclosed space air was not included in the RBCA because future plans do not include erecting any structure over the leaking underground storage tank (LUST) location per Union Pacific letter dated 3-19-98.

Leaking Underground Fuel Storage Tank Program

In summary, this office is recommending that this case be closed for the following reasons:

1) The leak has been stopped and ongoing sources have been removed and remediated
2) The site has been adequately characterized
3) Little or no groundwater impact currently exists , and no contaminates are found at level above established MCLs or other applicable water quality objectives
4) No water wells, deeper drinking water aquifers, surface water, or other sensitive receptors are likely to be impacted
5) The site presents no significant risk to human health and the environment

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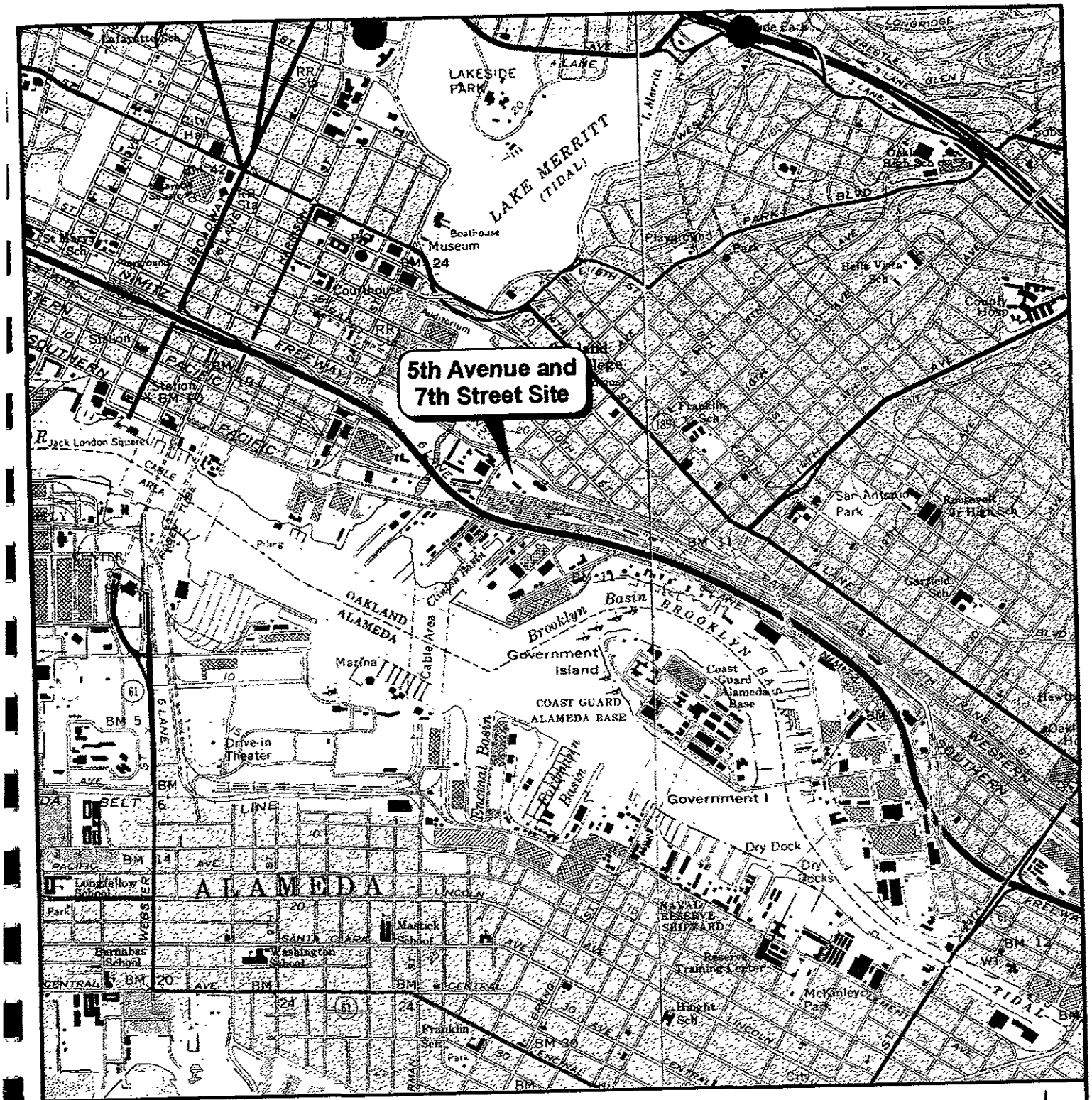

Reference
U S G S 7 5 Minute Series (Topographic)
Oakland East and West Quadrangles
California
Dated 1959 photorevised 1980

Project No 05100269	Figure No 1	
Scale As Above	Page No -	
File No 269SM	Drawn By Patti Decker	
Date 05/24/96	Approved By Richard Bateman	

TerraNext

SITE LOCATION MAP

SOUTHERN PACIFIC TRANSPORTATION COMPANY
5TH AVENUE AND 7TH STREET PROPERTY
OAKLAND, CALIFORNIA

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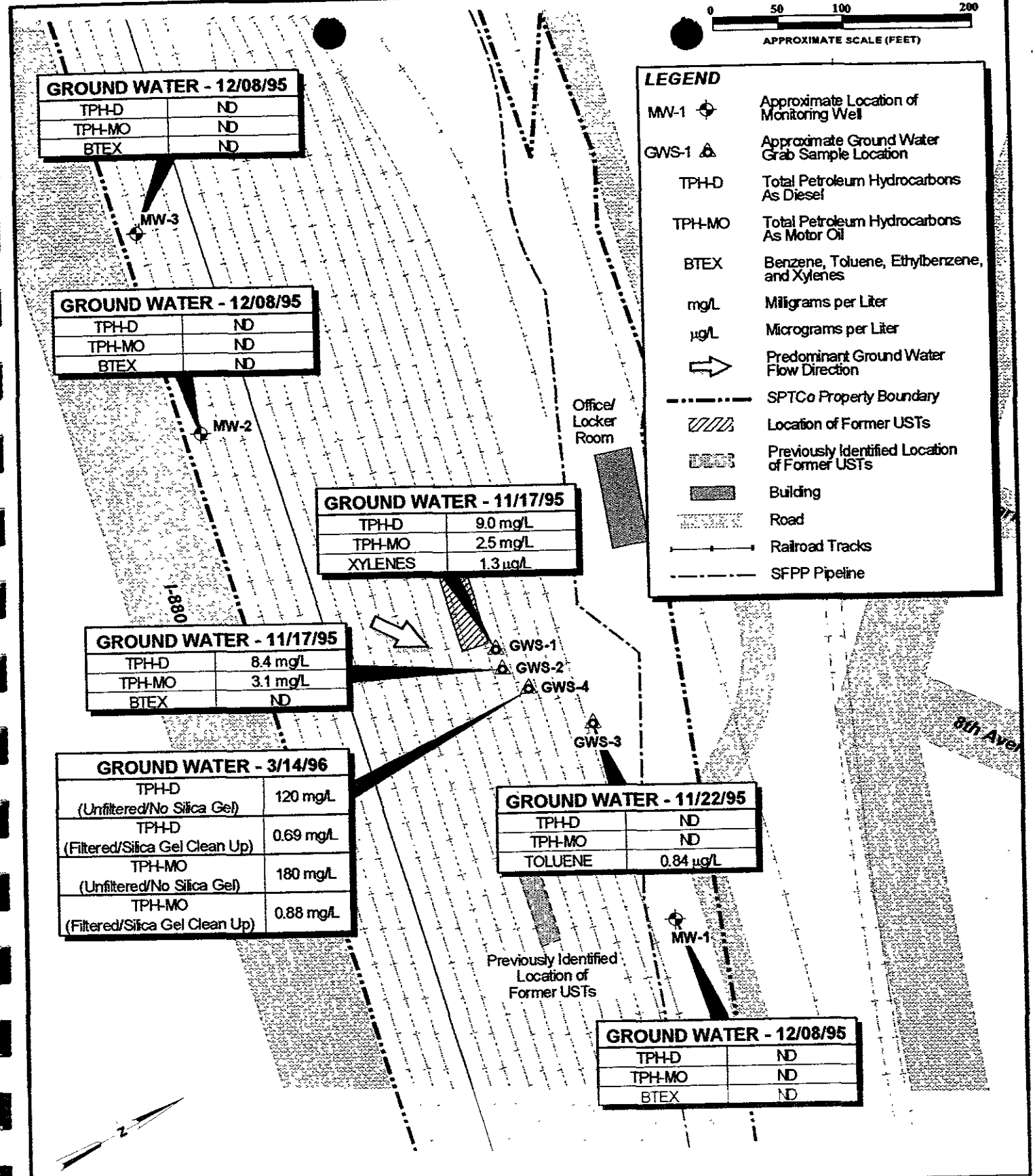

Project No. 05100269	Figure No. 2
Scale As Above	Page No. -
File No. D3000408	Drawn By Patti Decker
Date 08/23/96	Approved By Richard Bateman

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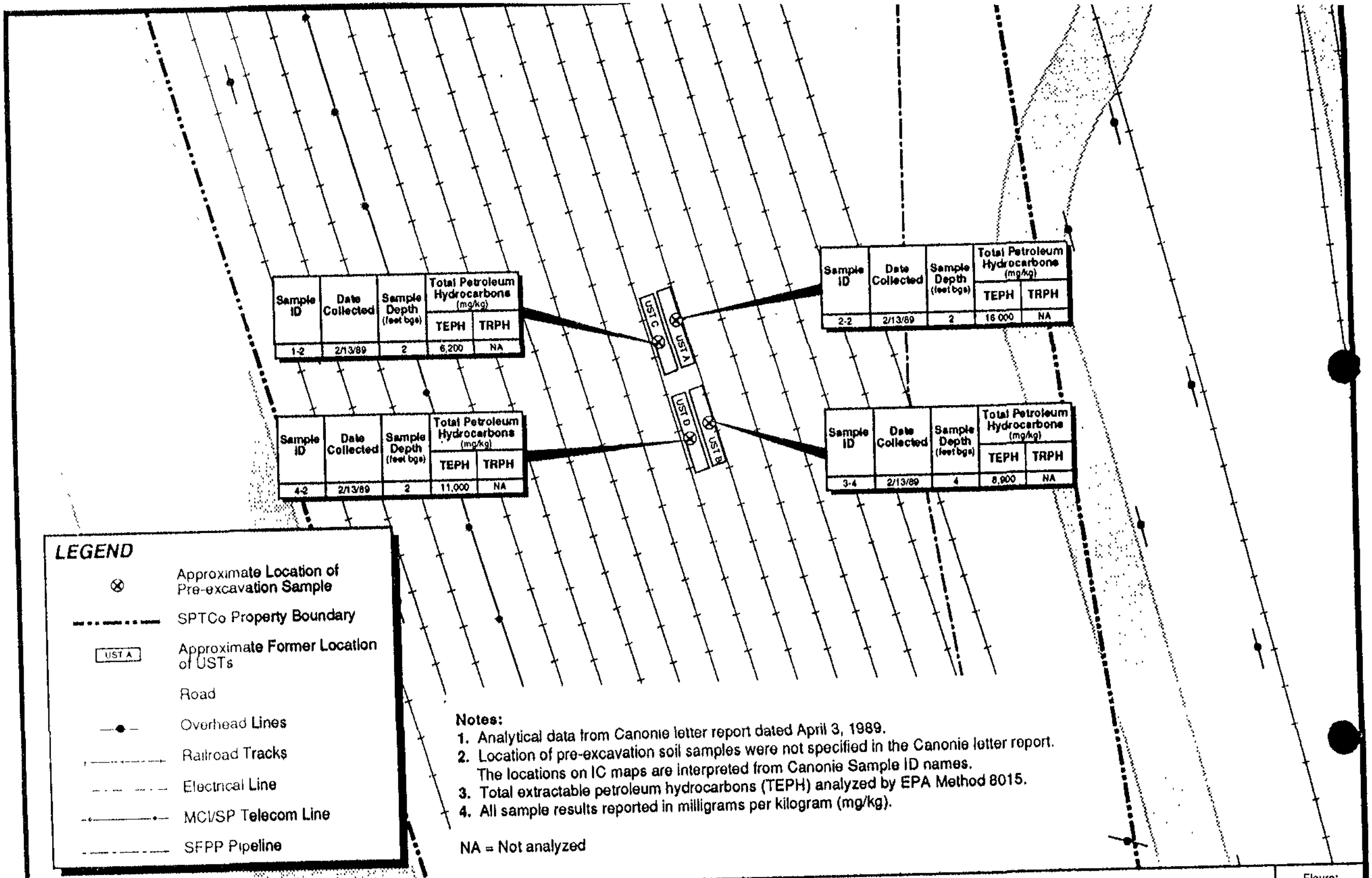
MONITORING WELL AND GROUND WATER GRAB SAMPLE LOCATIONS AND SUMMARY ANALYTICAL RESULTS

SOUTHERN PACIFIC TRANSPORTATION COMPANY
5TH AVENUE AND 7TH STREET PROPERTY
OAKLAND, CALIFORNIA



Sample ID	Date Collected	Sample Depth (feet bgs)	Total Petroleum Hydrocarbons (mg/kg)	
			TEPH	TRPH
1-2	2/13/89	2	6,200	NA

Sample ID	Date Collected	Sample Depth (feet bgs)	Total Petroleum Hydrocarbons (mg/kg)	
			TEPH	TRPH
2-2	2/13/89	2	16 000	NA

Sample ID	Date Collected	Sample Depth (feet bgs)	Total Petroleum Hydrocarbons (mg/kg)	
			TEPH	TRPH
4-2	2/13/89	2	11,000	NA

Sample ID	Date Collected	Sample Depth (feet bgs)	Total Petroleum Hydrocarbons (mg/kg)	
			TEPH	TRPH
3-4	2/13/89	4	8,900	NA

Notes:

1. Analytical data from Canonie letter report dated April 3, 1989.
2. Location of pre-excavation soil samples were not specified in the Canonie letter report. The locations on IC maps are interpreted from Canonie Sample ID names.
3. Total extractable petroleum hydrocarbons (TEPH) analyzed by EPA Method 8015.
4. All sample results reported in milligrams per kilogram (mg/kg).

NA = Not analyzed

Industrial Compliance
A Subsidiary of SP Environmental Systems, Inc.

LOCATION OF PRE-EXCAVATION SOIL SAMPLES FEBRUARY, 1989 REMOVAL ACTIVITIES SOUTHERN PACIFIC TRANSPORTATION COMPANY 5TH AVENUE AND 7TH STREET PROPERTY OAKLAND, CALIFORNIA

Project No.:	05100269	Date:	08/01/94
Drawn By:	Patti Decker	Checked By:	James G. Jensen

Figure: 3
Page No.: 5
Scale: as shown

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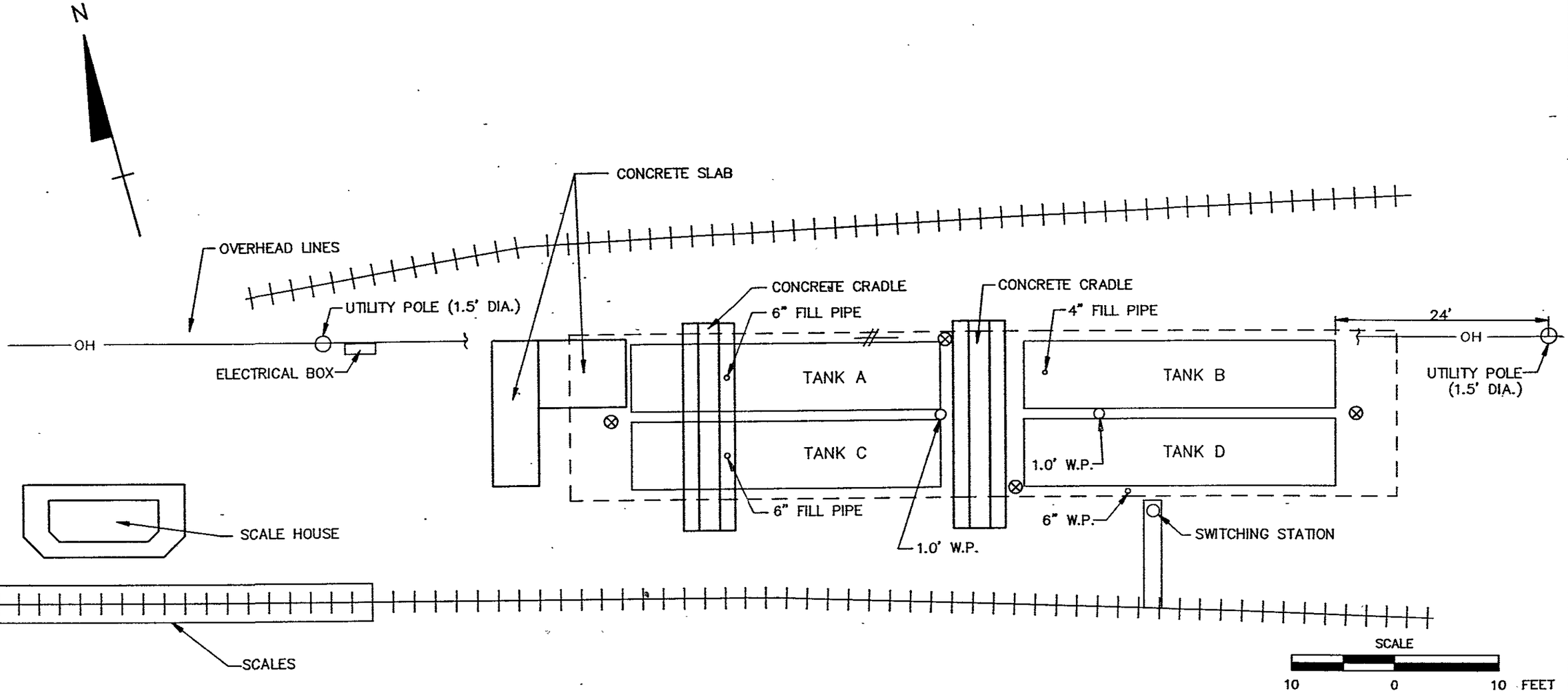


LEGEND:

⊗	SOIL SAMPLE LOCATIONS
- - - - -	APPROXIMATE LIMITS OF SHORING
W.P.	WOODEN PILE (EXISTING)

NOTES:

1. TANKS ARE UNDERGROUND

TANK LOCATION PLAN
EAST OAKLAND, CALIFORNIA

PREPARED FOR

SOUTHERN PACIFIC
TRANSPORTATION COMPANY

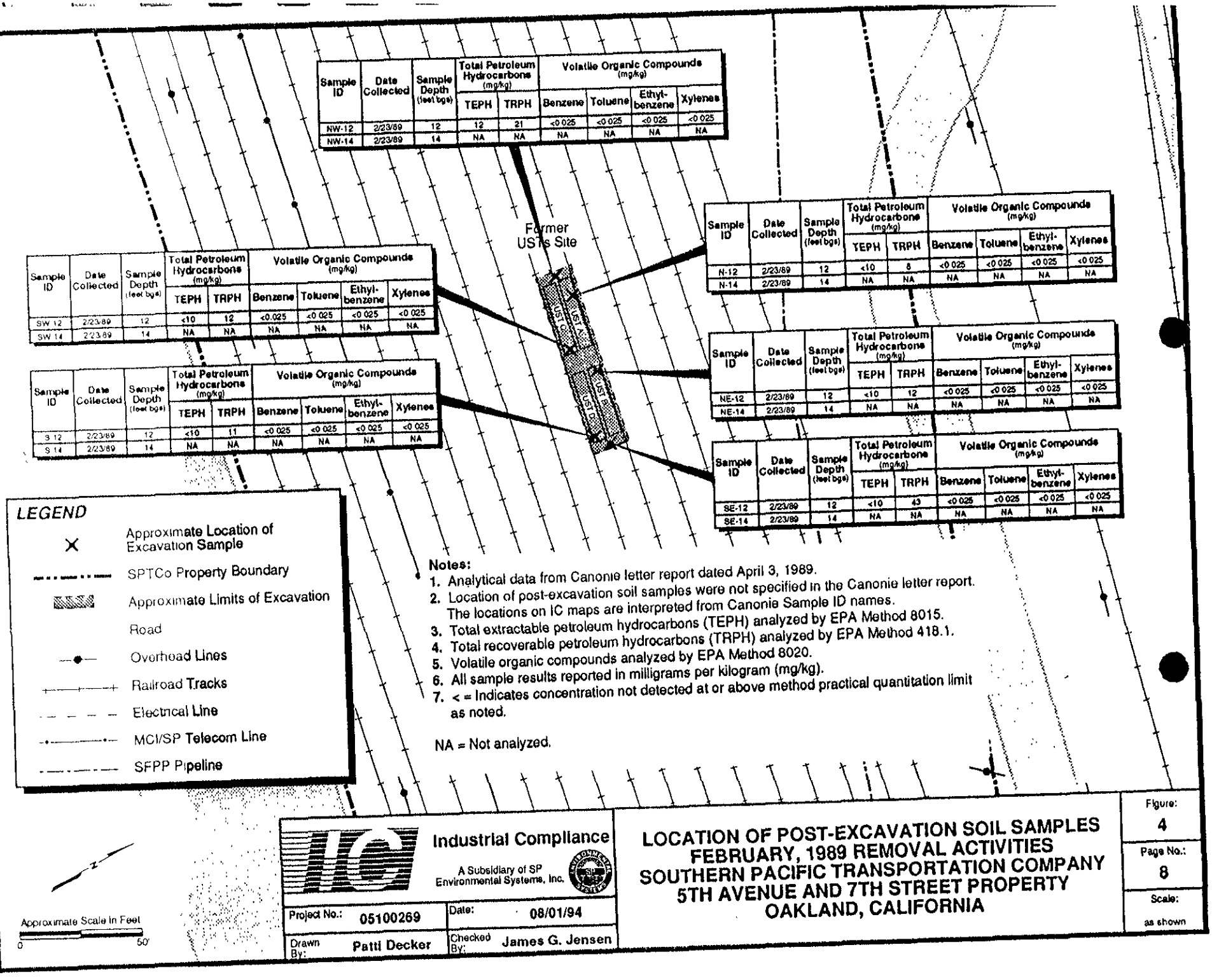
Canonie Environmental

DATE: 12-21-88 SCALE: AS SHOWN	FIGURE 3a	DRAWING NUMBER 88-149-B12

REVISIONS

NO.	DATE	
1	2-10-89	ADDED SOIL SAMPLE LOCATIONS

DRAWN BY: VZC 12-21-88
CHECKED BY: [illegible]
APPROVED BY: [illegible]
DRAWING NUMBER: 88-149-B12



Sample ID	Date Collected	Sample Depth (feet bgs)	Total Petroleum Hydrocarbons (mg/kg)		Volatile Organic Compounds (mg/kg)			
			TEPH	TRPH	Benzene	Toluene	Ethyl-benzene	Xylenes
NW-12	2/23/89	12	12	21	<0.025	<0.025	<0.025	<0.025
NW-14	2/23/89	14	NA	NA	NA	NA	NA	NA

Sample ID	Date Collected	Sample Depth (feet bgs)	Total Petroleum Hydrocarbons (mg/kg)		Volatile Organic Compounds (mg/kg)			
			TEPH	TRPH	Benzene	Toluene	Ethyl-benzene	Xylenes
N-12	2/23/89	12	<10	8	<0.025	<0.025	<0.025	<0.025
N-14	2/23/89	14	NA	NA	NA	NA	NA	NA

Sample ID	Date Collected	Sample Depth (feet bgs)	Total Petroleum Hydrocarbons (mg/kg)		Volatile Organic Compounds (mg/kg)			
			TEPH	TRPH	Benzene	Toluene	Ethyl-benzene	Xylenes
NE-12	2/23/89	12	<10	12	<0.025	<0.025	<0.025	<0.025
NE-14	2/23/89	14	NA	NA	NA	NA	NA	NA

Sample ID	Date Collected	Sample Depth (feet bgs)	Total Petroleum Hydrocarbons (mg/kg)		Volatile Organic Compounds (mg/kg)			
			TEPH	TRPH	Benzene	Toluene	Ethyl-benzene	Xylenes
SE-12	2/23/89	12	<10	43	<0.025	<0.025	<0.025	<0.025
SE-14	2/23/89	14	NA	NA	NA	NA	NA	NA

Sample ID	Date Collected	Sample Depth (feet bgs)	Total Petroleum Hydrocarbons (mg/kg)		Volatile Organic Compounds (mg/kg)			
			TEPH	TRPH	Benzene	Toluene	Ethyl-benzene	Xylenes
SW 12	2/23/89	12	<10	12	<0.025	<0.025	<0.025	<0.025
SW 14	2/23/89	14	NA	NA	NA	NA	NA	NA

Sample ID	Date Collected	Sample Depth (feet bgs)	Total Petroleum Hydrocarbons (mg/kg)		Volatile Organic Compounds (mg/kg)			
			TEPH	TRPH	Benzene	Toluene	Ethyl-benzene	Xylenes
S 12	2/23/89	12	<10	11	<0.025	<0.025	<0.025	<0.025
S 14	2/23/89	14	NA	NA	NA	NA	NA	NA

LEGEND

- × Approximate Location of Excavation Sample
- SPTCo Property Boundary
- Approximate Limits of Excavation
- Road
- Overhead Lines
- Railroad Tracks
- Electrical Line
- MCI/SP Telecom Line
- SFPP Pipeline

Notes:

1. Analytical data from Canonie letter report dated April 3, 1989.
2. Location of post-excavation soil samples were not specified in the Canonie letter report. The locations on IC maps are interpreted from Canonie Sample ID names.
3. Total extractable petroleum hydrocarbons (TEPH) analyzed by EPA Method 8015.
4. Total recoverable petroleum hydrocarbons (TRPH) analyzed by EPA Method 418.1.
5. Volatile organic compounds analyzed by EPA Method 8020.
6. All sample results reported in milligrams per kilogram (mg/kg).
7. < = Indicates concentration not detected at or above method practical quantitation limit as noted.

NA = Not analyzed.

Approximate Scale in Feet
0 50'

Industrial Compliance
A Subsidiary of SP Environmental Systems, Inc.

Project No.:	05100269	Date:	08/01/94
Drawn By:	Patti Decker	Checked By:	James G. Jensen

LOCATION OF POST-EXCAVATION SOIL SAMPLES FEBRUARY, 1989 REMOVAL ACTIVITIES SOUTHERN PACIFIC TRANSPORTATION COMPANY 5TH AVENUE AND 7TH STREET PROPERTY OAKLAND, CALIFORNIA

Figure: 4
Page No.: 8
Scale: as shown

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TABLE 1
ANALYTICAL RESULTS
UNDERGROUND STORAGE TANK SOIL SAMPLES
FEBRUARY, 1989 - REMOVAL ACTIVITIES

Sample Location	Sample ID[a]	Date Collected	Sample Depth (feet bgs)	TEPH[b] (mg/kg)	TRPH[c] (mg/kg)	Benzene[d] (mg/kg)	Toluene[d] (mg/kg)	Ethylbenzene[d] (mg/kg)	Xylenes[d] (mg/kg)	PCBs[e] (mg/kg)
Pre-excavation Perimeter of USTs	Sample 1-2	02/13/89	2	6,200	NA	NA	NA	NA	NA	NA
	Sample 2-2		2	16,000	NA	NA	NA	NA	NA	NA
	Sample 3-4		4	8,900	NA	NA	NA	NA	NA	NA
	Sample 4-2		2	11,000	NA	NA	NA	NA	NA	NA
UST Excavation after over excavation	N-12	02/23/89	12	<10	8	<0.025	<0.025	<0.025	<0.025	NA
	NE-12		12	<10	12	<0.025	<0.025	<0.025	<0.025	NA
	NW-12		12	12	21	<0.025	<0.025	<0.025	<0.025	NA
	S-12		12	<10	11	<0.025	<0.025	<0.025	<0.025	NA
	SE-12		12	<10	43	<0.025	<0.025	<0.025	<0.025	NA
	SW-12		12	<10	12	<0.025	<0.025	<0.025	<0.025	NA
	Composite S-12, SE-12, and SW-12		12	NA	NA	NA	NA	NA	NA	ND
	Composite N-12, NE-12, and NW-12		12	NA	NA	NA	NA	NA	NA	ND

a See Figures 3 and 4 for approximate location of soil samples. These locations were not specified in the Canonie reports. The locations on IC maps are interpreted from Canonie's sample ID numbers.

b Total extractable petroleum hydrocarbons (TEPH) analyzed by EPA Method 8015 (California Regional Water Quality Control Board Guidelines, September, 1985).

c Total recoverable petroleum hydrocarbons (TRPH) analyzed by EPA Method 418.1.

d Benzene, toluene, ethylbenzene, and xylenes (BTEX) analyzed by EPA Method 8020.

e Polychlorinated biphenyls (PCBs) analyzed by EPA Method 8080 3

mg/kg Milligrams per kilogram, approximately equal to parts per million (ppm)

ND Not detected at or above the practical quantitation limit for analyte analyzed for See laboratory sheets in Appendix A.

< Indicates the constituent was not detected at a concentration at or above the method practical quantitation limit as listed.

TABLE 2
SUMMARY OF GROUND WATER ANALYTICAL RESULTS

Sample Location	Date Sampled	TEPH (mg/L)		Volatile Organic Compounds[c] (µg/L)				Sodium Chloride[d] (mg/L)	Total Dissolved Solids[e] (mg/L)
		Diesel[a]	Motor Oil[b]	Benzene	Toluene	Ethylbenzene	Xylenes		
MW-1	04/28/94	<0.05	<0.20	<0.5	<0.5	<0.5	<0.5	61	530
	08/16/94	<0.12	<0.75	<0.3	<0.3	<0.5	<0.5	86	600
	11/09/94	<0.05	<0.50	<0.5	<0.5	<0.5	<0.5	25	470
	02/16/95[f]	NS	NS	NS	NS	NS	NS	NS	NS
	05/11/95	<0.05	<0.50	<0.5	<0.5	<0.5	<0.5	46	550
	08/08/95	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	NA	NA
	12/08/95	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-2	04/28/94	<0.05	<0.20	<0.5	<0.5	<0.5	<0.5	77	460
	08/16/94	<0.12	0.75	<0.3	<0.3	<0.5	<0.5	170	690
	11/10/94	<0.05	<0.50	<0.5	<0.5	<0.5	<0.5	35	370
	02/16/95	<0.05	<0.50	<0.5	<0.5	<0.5	<0.5	190	370
	05/11/95	<0.05	<0.50	<0.5	<0.5	<0.5	<0.5	112	490
	08/08/95	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	NA	NA
	12/08/95	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-3	04/28/94	<0.05	<0.20	<0.5	<0.5	<0.5	<0.5	300	680
	08/16/94	<0.12	<0.75	<0.3	<0.3	<0.5	<0.5	1,200	3,700
	11/10/94	<0.05	<0.50	<0.5	<0.5	<0.5	<0.5	140	620
	02/16/95	<0.05	<0.50	<0.5	<0.5	<0.5	<0.5	630	1,330
	05/11/95	<0.05	<0.50	<0.5	<0.5	<0.5	<0.5	692	1,350
	08/08/95	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	NA	NA
	12/08/95	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	NA	NA
GWS-1	11/17/95	9.0	2.5	<0.5	<0.5	<0.5	1.3[g]	NA	NA
GWS-2	11/17/95	8.4	3.1	<0.5	<0.5	<0.5	<1.0	NA	NA
GWS-3	11/22/95	<0.05[h]		<0.5	0.84	<0.5	<1.0	NA	NA
GWS-4 (Unfiltered/No Silica Gel Cleanup)	03/14/96	120	180[i]	NA	NA	NA	NA	NA	NA
GWS-4 (Filtered/Silica Gel Cleanup)	03/14/96	0.69	0.88[i]	NA	NA	NA	NA	NA	NA
Cal DHS MCLs		NE	NE	1	150	700	1,750	NE	500[j]

TerraNext

Well Construction Log

DRAFT

INDUSTRIAL COMPLIANCE

Well Location	East Oakland Yard (North of Railroad Tracks)			**Well Name**	MW-1
Drilling Company	West Hazmat (Contractor No. 554979)			**Project Name**	5th Avenue and 7th Street
Drilling Method	Hollow Stem Auger/Continuous Core	**Rig Type**	Mobile B-61	**Project Number**	05100269
Hole Diameter	8 & 10 In.	**Driller**	Jeff Smith	**Date**	4/13/94	**Logged By**	James G. Jensen
Ground Elevation	est. 10' AMSL	**Water Depth**	5' at time of drilling	**Total Depth**	15' (8" Auger)/15' (10" Auger)

Well Construction Specifics

Screen Placement	from	14	ft.	to	4	ft.	**Slot Size**	0.020	inches	**Diameter**	4	inches	**Completion Type:**
Blank Casing	from	4	ft.	to	surf	ft.	**Schedule**	40 PVC		**Diameter**	4	inches	Aboveground ___
Filter Pack	from	15	ft.	to	3	ft.	**Size**	1C (4.5 sx)		**Type**	Lonestar/Monterey		At Grade _X_
Bentonite Pellets	from	3	ft.	to	2	ft.	**Type**	Pellets (2/3 bucket)		**Size**	3/8 inches	**Hydrated**	_X_ yes ___ no
Cement/Bentonite	from	2	ft.	to	surf	ft.	**Size**			**Percent Bentonite**	2%		

Sample Number	Recov.	Blows/ 6-Inches	Depth Feet	Well Detail	Lithology	USCS Log	Sample Description	FID/PID
							Ballast material at surface.	
MW-1 (0.5')	1'	14 17 17	1	Cement/ Bentonite Grout		SM	Gravelly Silty Sand: dark brown, 60% fine grained sand, 30% silt to very fine grained, 10% gravel, loose, damp. Silty Sand: dark brown, 60% fine to medium grained sand, 30% silt to very fine grained, 10% small gravel, subangular, poorly sorted, loose, damp.	0.0
	1'	continuous core	2 3	Bentonite Seal		? ML	Sandy Silt: gray, 50% silt to very fine grained, 30% fine grained sand, 20% small gravel, subangular, loose, damp.	
	4"	4 7 7	4 5	#1C Sand Screen		SM	Silty Sand: dark brown, 60% fine grained sand, 30% silt to very fine grained, 10% gravel, subangular, poorly sorted, loose, damp. Silty Sand: brown, 60% fine to medium grained sand, 40% silt, subangular, poorly sorted, sticky, wet, 5% dark minerals.	0.0
	2'	continuous core	6 7 8			? CH ? CL	Sandy Clay: orange brown, 60% clay, 40% fine to medium grained sand, subangular, sticky, wet.	
			9			SM CL	Clayey Silty Sand: orange brown, 50% fine to medium grained sand, 25% silt to very fine grained, 25% clay, subangular, poorly sorted, sticky, wet. Silty Clay: orange brown, slight gray mottling, 80% clay, 20% silt, firm, sticky, moist.	0.0
	18"	1 1 1	10 11			CH	Clay: gray, firm, sticky, moist, shell debris at 10 feet, trace fine grained sand in burrows, slight organic odor.	
	3.5'	continuous core	12 13			CH	Clay: gray, firm, sticky, moist, shell debris at 11.5 feet, medium grained sand at 13 feet, slight organic odor.	
			14			SC	Clayey Sand: gray, mottled with gray green, 70% fine to medium grained sand, 30% clay, subrounded, moderately sorted, firm, moist, trace angular gravel, slight organic odor.	
			15				Total Depth 15 feet bgs	

DRAFT

INDUSTRIAL COMPLIANCE

Construction Log

ocation	East Oakland Yard (South of Railroad Tracks)			Well Name	MW-2
Company	West Hazmat (Contractor No. 554979)			Project Name	5th Avenue and 7th Street
Method	Hollow Stem Auger/Continuous Core	Rig Type	Mobile B-61	Project Number	05100269
iameter	8 & 10 In.	Driller	Jeff Smith	Date	4/13/94	Logged By	James G. Jensen
Elevation	est. 10' AMSL	Water Depth	3' at time of drilling	Total Depth	15' (8" Auger)/14.5 (10" Auger)

Construction Specifics

lacement	from	14	ft.	to	4	ft.	Slot Size	0.020	inches	Diameter 4 inches	Completion Type:
asing	from	4	ft.	to	surf	ft.	Schedule	40 PVC		Diameter 4 inches	Aboveground ___
ck	from	14.5	ft.	to	3.5	ft.	Size	1C (2.75 sx)		Type Lonestar/Monterey	At Grade X
e Pellets	from	3.5	ft.	to	3.0	ft.	Type	Pellets (1/2 bucket)		Size 3/8 inches	Hydrated X yes ___ no
Bentonite	from	3.0	ft.	to	surf	ft.	Size			Percent Bentonite 2%	

Recov.	Blows/ 6-inches	Depth Feet	Well Detail	Lithology	USCS Log	Sample Description	FID/PID
						Ballast material at surface.	
6"	6 3 5	1	Cement/ Bentonite Grout		ML	Sandy Silt: gray brown, 60% silt to very fine grained, 40% fine grained sand, subangular, poorly sorted, loose, damp.	
		2			?	Gravelly Sandy Silt: gray brown, 50% silt to very fine grained, 30% fine grained sand, 20% small gravel, subrounded, poorly sorted, loose, damp.	
1.5'	continuous core	3	Bentonite Seal		CL	Sandy Silty Clay: mottled orange brown, 60% clay, 30% fine grained sand, 20% silt to very fine grained, subrounded, sticky, wet.	0.0
		4	#1C Sand				
		5			SM	Clayey Silty Sand: brown, 60% medium grained sand, 20% silt to very fine grained, 20% clay, subrounded, poorly sorted, sticky, wet.	
4'	continuous core	6	Screen		?	Clay: gray, firm, sticky, mottled with dark gray.	
		7			CH		
		8					
		9				Sandy Clay: gray, 70% clay, 30% fine grained sand, subrounded, sticky, wet.	
		10				Clay: orange brown mottled, firm, sticky, moist.	
4'	continuous core	11			CL	Silty Clay: gray, mottled with dark gray streaks, 70% clay, 30% silt, sticky, moist, trace shell fragments, slight organic odor.	
		12					
		13				Clay: gray, firm, sticky, moist, trace dark gray mottling, trace rounded gravel, moderate organic odor	
		14			CH		
		15					

Total Depth 15 feet bgs.

Oak-269/SI 0494/MW-2 #200

ll Construction Log

DRAFT

INDUSTRIAL COMPLIANCE

Location	East Oakland Yard (South of Railroad Tracks)			**Well Name**	MW-3
ing Company	West Hazmat (Contractor No. 554979)			**Project Name**	5th Avenue and 7th Street
ing Method	Hollow Stem Auger/Continuous Core	**Rig Type**	Mobile B-61	**Project Number**	05100269
Diameter	8 & 10 In.	**Driller**	Jeff Smith	**Date**	4/13/94	**Logged By**	James G. Jensen
ınd Elevation	est. 10' AMSL	**Water Depth**	5'at time of drilling	**Total Depth**	15' (8" Auger)/15' (10" Auger)

ll Construction Specifics

n Placement	from	14	ft.	to	4	ft.	Slot Size	0.020	inches	Diameter	4	inches	Completion Type:
: Casing	from	4	ft.	to	surf	ft.	Schedule	40 PVC		Diameter	4	inches	Aboveground ___
Pack	from	15	ft.	to	3.5	ft.	Size	1C (4 sx)		Type Lonestar/Monterey			At Grade X
ınite Pellets	from	3.5	ft.	to	3.0	ft.	Type	Pellets (1/2 bucket)		Size 3/8 inches			Hydrated X yes ___ no
nt/Bentonite	from	3.0	ft.	to	surf	ft.	Size			Percent Bentonite		2%	

Number	Recov.	Blows/ 6-inches	Depth Feet	Well Detail	Lithology	USCS Log	Sample Description	FID/PID
							Ballast material at surface.	
			1			GM	Silty Gravel: brown, 60% gravel, 40% silt to very fine grained, subangular, poorly sorted, loose, damp.	
		5				?		
3 (0.5')	1'	12		Cement/ Bentonite Grout			Silty Sand: brown, 80% fine to medium grained, 20% silt to very fine grained, subrounded, moderately sorted, loose, moist, trace gravel.	0.0
		15	2					
	1'	continuous core	3	Bentonite Seal		SM		
			4	#1C Sand			Silty Sand: brown with red brown mottling, 60% fine grained, 40% silt, subangular, poorly sorted, firm, moist.	
							Silty Sand: brown, 70% fine to medium grained, 30% silt to very fine grained, subrounded, moderately sorted, loose, wet.	
		1	5			?		0.0
	15"	1		Screen			Clay: gray, firm, sticky, moist, trace dark gray mottling.	
		1	6					
			7			CH		
	2.5'	continuous core	8				Clay: gray, firm, sticky, moist, trace dark gray mottling, slight organic odor.	
			9					
			10				Sandy Clay: mottled gray and brown, 70% clay, 30% fine grained sand, subrounded, firm, sticky, moist.	
			11			CL		
	3'	continuous core	12				Sandy Silty Clay: mottled orange brown, 50% clay, 25% fine grained sand, 25% silt to very fine grained, firm, sticky, moist.	
			13					
			14					
			15			CH	Clay: gray, firm, sticky, moist, trace shell fragments, slight organic odor	

Total Depth 15 feet bgs.

Oak-269/SI 0494/MW-3 #200

Table 2
Results of Total Ext. Petroleum Hydrocarbons Analysis on Soil
Samples Received From SPT. Co. East Oakland
Results in mg/kg

Sampler ID:	Sample 1-2'	Sample 2-2'	Sample 3-4'	Sample 4-2'
Lab ID#:	835229	835230	835231	835232
Analyte(s)				
Total Extractable Petroleum Hydrocarbons	6200.	16000.	8900.	11000.

BCS / DT
Analyst / Checked by

Preliminary Sample

Note:
ND X denotes none detected to a level of X.
#ND X denotes none detected to a level of X due to an interfering peak.

Table 1
Codes of Samples Received
From SPT. Co. East Oakland
Project: 88-150-07

Sampler ID	Date Sampled	Date Received	Lab ID#	Sample Type	Container
Analysis: Benzene-Toluene-Et-Benzene-Xylene					
N-12	02-23-89	02-24-89	835684	Soil	Brass Tube
NE-12	02-23-89	02-24-89	835682	Soil	Brass Tube
NW-12	02-23-89	02-24-89	835680	Soil	Brass Tube
S-12	02-23-89	02-24-89	835686	Soil	Brass Tube
SE-12	02-23-89	02-24-89	835688	Soil	Brass Tube
SW-12	02-23-89	02-24-89	835690	Soil	Brass Tube
Analysis: Total Ext. Petroleum Hydrocarbons					
N-12	02-23-89	02-24-89	835684	Soil	Brass Tube
NE-12	02-23-89	02-24-89	835682	Soil	Brass Tube
NW-12	02-23-89	02-24-89	835680	Soil	Brass Tube
S-12	02-23-89	02-24-89	835686	Soil	Brass Tube
SE-12	02-23-89	02-24-89	835688	Soil	Brass Tube
SW-12	02-23-89	02-24-89	835690	Soil	Brass Tube

Confirmatory Samples

Table 2
Results of Benzene-Toluene-Et-Benzene-Xylene Analysis on Soil
Samples Received From SPT. Co. East Oakland
Results in mg/kg

Sampler ID:	N-12	NE-12	NW-12	S-12	SE-12
Lab ID#:	835684	835682	835680	835686	835688
Analyte(s)					
Benzene	ND 0.025	ND 0.025	ND 0.025	ND 0.025	ND 0.025
Toluene	ND 0.025	ND 0.025	ND 0.025	ND 0.025	ND 0.025
Ethyl Benzene	ND 0.025	ND 0.025	ND 0.025	ND 0.025	ND 0.025
Xylene	ND 0.025	ND 0.025	ND 0.025	ND 0.025	ND 0.025

GC — Analyst
DT — Checked by

Confirmatory Sample

Note:
ND X denotes none detected to a level of X
#ND X denotes none detected to a level of X due to an interfering peak

Table 2 (Cont.)
Results of Benzene-Toluene-Et-Benzene-Xylene Analysis on Soil
Samples Received From SPT. Co. East Oakland
Results in mg/kg

Sampler ID:	SW-12
Lab ID#:	835690
Analyte(s)	
Benzene	ND 0.025
Toluene	ND 0.025
Ethyl Benzene	ND 0.025
Xylene	ND 0.025

Analyst Checked by

Confirmatory Sample

Note:
ND X denotes none detected to a level of X.
#ND X denotes none detected to a level of X due to an interfering peak.

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

METHOD 503E/418.1

March 3, 1989
Lab No. 13125-6

Client: #03-8624
Canonie
Mr. Brian Wetzsteon
1825 S. Grant Street, Suite 260
San Mateo, CA 94402

Project #88-150-07

Confirmatory Sample

Sample Description: SW-12

Sampled by: Brian Wetzsteon
Date Sampled: February 23, 1989
Date Received: February 27, 1989

REPORT OF ANALYSIS

Parameter	Test Results	Reporting Unit	Detection Limit
TPH (418.1)	12	mg/kg	5

ND = Not detected at or above the concentration of the detection limit.

mg/kg = ppm_t

Maximum contaminant levels/action levels are dependent upon local conditions. Please check with your local Environmental Health office for this information.

Very truly yours,

Nicki Heath
NICKI HEATH
Environmental Chemist

John F. Quinn
JOHN F. QUINN, Ph.D.
Laboratory Director

NH/JFQ:cat

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

METHOD 503E/418.1

March 3, 1989
Lab No. 13125-5

Client: #03-8624
Canonie
Mr. Brian Wetzsteon
1825 S. Grant Street, Suite 260
San Mateo, CA 94402

Project #88-150-07

Confirmatory Sample

Sample Description: SE-12

Sampled by: Brian Wetzsteon
Date Sampled: February 23, 1989
Date Received: February 27, 1989

REPORT OF ANALYSIS

Parameter	Test Results	Reporting Unit	Detection Limit
TPH (418.1)	43	mg/kg	5

ND = Not detected at or above the concentration of the detection limit.

mg/kg = ppm

Maximum contaminant levels/action levels are dependent upon local conditions. Please check with your local Environmental Health office for this information.

Very truly yours,

Nicki Heath
NICKI HEATH
Environmental Chemist

John F. Quinn
JOHN F. QUINN, Ph.D.
Laboratory Director

NH/JFQ:cat

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

METHOD 503E/418.1

March 3, 1989
Lab No. 13125-4

Client: #03-8624
Canonie
Mr. Brian Wetzsteon
1825 S. Grant Street, Suite 260
San Mateo, CA 94402

Project #88-150-07

Sample Description: NW-12 Confirmatory Sample

Sampled by: Brian Wetzsteon
Date Sampled: February 23, 1989
Date Received: February 27, 1989

REPORT OF ANALYSIS

Parameter	Test Results	Reporting Unit	Detection Limit
TPH (418.1)	21	mg/kg	5

ND = Not detected at or above the concentration of the detection limit.

mg/kg = ppm

Maximum contaminant levels/action levels are dependent upon local conditions. Please check with your local Environmental Health office for this information.

Very truly yours,

Nicki Heath
NICKI HEATH
Environmental Chemist

John F. Quinn
JOHN F. QUINN, Ph.D.
Laboratory Director

NH/JFQ:cat

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

METHOD 503E/418.1

March 3, 1989
Lab No. 13125-3

Client: #03-8624
Canonie
Mr. Brian Wetzsteon
1825 S. Grant Street, Suite 260
San Mateo, CA 94402

Project #88-150-07

Sample Description: NE-12

Confirmatory Sample

Sampled by: Brian Wetzsteon
Date Sampled: February 23, 1989
Date Received: February 27, 1989

REPORT OF ANALYSIS

Parameter	Test Results	Reporting Unit	Detection Limit
TPH (418.1)	12	mg/kg	5

ND = Not detected at or above the concentration of the detection limit.

mg/kg = ppm

Maximum contaminant levels/action levels are dependent upon local conditions. Please check with your local Environmental Health office for this information.

Very truly yours,

Nicki Heath

NICKI HEATH
Environmental Chemist

John F. Quinn

JOHN F. QUINN, Ph.D.
Laboratory Director

NH/JFQ:cat

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

METHOD 503E/418.1

March 3, 1989
Lab No. 13125-2

Client: #03-8624
Canonie
Mr. Brian Wetzsteon
1825 S. Grant Street, Suite 260
San Mateo, CA 94402

Project #88-150-07

Sample Description: S-12

Confirmatory Sample

Sampled by: Brian Wetzsteon
Date Sampled: February 23, 1989
Date Received: February 27, 1989

REPORT OF ANALYSIS

Parameter	Test Results	Reporting Unit	Detection Limit
TPH (418.1)	11	mg/kg	5

ND = Not detected at or above the concentration of the detection limit.

mg/kg = ppm

Maximum contaminant levels/action levels are dependent upon local conditions. Please check with your local Environmental Health office for this information.

Very truly yours,

Nicki Heath

NICKI HEATH
Environmental Chemist

John F. Quinn

JOHN F. QUINN, Ph.D.
Laboratory Director

NH/JFQ:cat

FGL ENVIRONMENTAL

ANALYTICAL CHEMISTS

RECEIVED
MAR 7 1989
Ans'd.....

METHOD 503E/418.1

March 3, 1989
Lab No. 13125-1

Client: #03-8624
Canonie
Mr. Brian Wetzsteon
1825 S. Grant Street, Suite 260
San Mateo, CA 94402

Project #88-150-07

Sample Description: N-12

Confirmatory Sample

Sampled by: Brian Wetzsteon
Date Sampled: February 23, 1989
Date Received: February 27, 1989

REPORT OF ANALYSIS

Parameter	Test Results	Reporting Unit	Detection Limit
TPH (418.1)	8	mg/kg	5

ND = Not detected at or above the concentration of the detection limit.

mg/kg = ppm

Maximum contaminant levels/action levels are dependent upon local conditions. Please check with your local Environmental Health office for this information.

Very truly yours,

Nicki Heath
NICKI HEATH
Environmental Chemist

John F. Quinn
JOHN F. QUINN, Ph.D.
Laboratory Director

NH/JFQ:cat

Table 3 (Cont.)
Results of Total Ext. Petroleum Hydrocarbons Analysis on Soil
Samples Received From SPT. Co. East Oakland
Results in mg/kg

Sampler ID:	SW-12
Lab ID#:	835690
Analyte(s)	
Total Extractable Petroleum Hydrocarbons	ND 10.

BTS/DEC DJ
Analyst Checked by

Laboratory Sample

Note:
ND X denotes none detected to a level of X.
#ND X denotes none detected to a level of X due to an interfering peak.

Table 3
Results of Total Ext. Petroleum Hydrocarbons Analysis on Soil
Samples Received From SPT. Co. East Oakland
Results in mg/kg

Sampler ID:	N-12	NE-12	NW-12	S-12	SE-12
Lab ID#:	835684	835682	835680	835686	835688
Analyte(s)					
Total Extractable Petroleum Hydrocarbons	ND 10.	ND 10.	*ND 10.	ND 10.	ND 10.

BTS/DEG DT
Analyst Checked by

*Extractable Hydrocarbons 12.

Consiv ma tory Sample

Note:
ND X denotes none detected to a level of X
#ND X denotes none detected to a level of X due to an interfering peak

Table 2
Results of PCB Analysis on Soil
Samples Received From SPT.Co. East Oakland
Results in mg/kg

Sampler ID:	Composite
Lab ID#:	835680
Analyte(s)	
Aroclor 1016	ND 0.05
Aroclor 1221	ND 0.05
Aroclor 1232	ND 0.05
Aroclor 1242	ND 0.05
Aroclor 1248	ND 0.05
Aroclor 1254	ND 0.10
Aroclor 1260	ND 0.10

Analyst DJ Checked by

Confirmatory Sample

Note:
ND X denotes none detected to a level of X.
#ND X denotes none detected to a level of X due to an interfering peak.

Table 2
Results of PCB Analysis on Soil
Samples Received From S.P. Oakland
Results in mg/kg

Sampler ID:	S-12,SE-12-,SW-12
Lab ID#:	835686
Analyte(s)	
Aroclor 1016	ND 0.05
Aroclor 1221	ND 0.05
Aroclor 1232	ND 0.05
Aroclor 1242	ND 0.05
Aroclor 1248	ND 0.05
Aroclor 1254	ND 0.10
Aroclor 1260	ND 0.10

Analyst DJ
Checked by

Confirmatory Sample

Note:
ND X denotes none detected to a level of X.
#ND X denotes none detected to a level of X due to an interfering peak