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

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 406 - 3924 Martin Luther King Jr. Wy, Oakland, CA

January 17, 1997

Mr. Gary Jensen
BART
1330 Broadway, Suite 1702
Oakland, CA 94604-2688

Dear Mr. Jensen:

This letter confirms the completion of site investigation and remedial action for the four former underground storage tanks (1-550 gallon gasoline, 2-1,000 gallone gasoline, and 1-120 gallon waste oil tank) removed from the above site on May 12 and October 25, 1994. 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, no further action related to the underground tank release is required.

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

Please contact our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung, Director

cc: Chief, Division of Environmental Protection
Kevin Graves, RWQCB
Lori Casias, SWRCB (with attachment)
Cheryl Gordon, UST Cleanup Fund
files (bart1.6)

01-2153

ENVIRONMENTAL PROTECTION
96 JUN 18 PM 2:39

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION **Date: May 16, 1996**

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

II. CASE INFORMATION

Site facility name: **Bart Property**
Site facility address: **3924 Martin Luther King Jr. Wy, Oakland, CA**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **406**
URF filing date: **5/17/94** SWEEPS No: **N/A**

Responsible Parties:	Addresses:	Phone Numbers:
BART **Attn. Gary Jensen**	**1330 Broadway, #1702** **Oakland, CA 94604-2688**	**510/287-4848**

Tank No:	Size in gal.:	Contents:	Closed in-place or removed?:	Date:
1	550	Gasoline	Removed	5/12/94
2	1,000	Gasoline	Removed	5/12/94
3	1,000	"	"	"
4	120	Waste Oil	Removed	10/25/94

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Leaking UST and piping.**
Site characterization complete? **YES**
Date approved by oversight agency: **5/14/96**
Monitoring Wells installed? **Yes** Number: **3**
Proper screened interval? **Yes, 5.5 to 13' bgs in MW-2**
Highest GW depth below ground surface: **9.21'** Lowest depth: **11.94' in MW-2**
Flow direction: **SW to SE**
Most sensitive current use: **Commercial**
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
Alameda, CA 94502

Treatment and Disposal of Affected Material:

Material	Amount (include units)	Action (Treatment or Disposal w/destination)	Date
Tank & Piping	4 USTs	Taken by Erickson and disposed at Levin Metals, in Richmond	May 1994 & Oct 1994
Free Product	1950 gallon	PRC Patterson, in Patterson	5 & 10/94
Soil	72 cy	TriCities L.F., in Fremont	8/2/94

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm) Before[1]	Soil (ppm) After[4]	Water (ppb) Before[7]	Water (ppb) After
TPH (Gas)	240[2]	280	6,700	ND
TPH (Diesel)	8,000[3]	1,300	<1,000	ND
Benzene	2.7	0.047	150	ND
Toluene	3.48	0.310	12	ND
Ethylbenzene	10	2.0	290	ND
Xylenes	12	0.850	134	ND
Oil & Grease as TRPH	35,000[3]	51[5]	NA	ND
Heavy metals Pb	33[3]	NA	<10	ND
Other PNAs		See Note 6		
SVOCs	See Note 8	ND[5]		ND
HVOCs	ND	ND		ND

NOTE:
1 from fuel UST excavation at time of tank removal
2 from pipeline excavation
3 from waste oil excavation
4 from fuel UST excavation after overexcavation
5 from waste oil excavation after overexcavation
6 0.03 ppm pyrene, 0.04 ppm benzo(a)anthracene in fuel pit after overexcavation
7 "grab" groundwater from fuel UST excavation
8 4.67 ppm 2-Methylnaphthalene, 0.53 ppm phenanthrene at 5.5' bgs from waste oil pit

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? **Undetermined**
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: **None**
Should corrective action be reviewed if land use changes? **YES**
Monitoring wells Decommissioned: **No, pending site closure**
Number Decommissioned: **0** Number Retained: **3**
List enforcement actions taken: **None**
List enforcement actions rescinded: **NA**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: **Eva Chu** Title: **Haz Mat Specialist**

Signature: Eva Chu Date: 5/22/96

Reviewed by

Name: **Dale Klettke** Title: **Haz Mat Specialist**

Signature: Dale Klettke Date: 5/16/96

Name: **Tom Peacock** Title: **Supervisor**

Signature: Tom Peacock Date: 5-21-96

VI. RWQCB NOTIFICATION

Date Submitted to RB: 5/23/96 RB Response: Approved

RWQCB Staff Name: **Kevin Graves** Title: **AWRCE**

Signature: Kevin Graves Date: 6/14/96

VII. ADDITIONAL COMMENTS, DATA, ETC.

Prior to 1986 the site was used as an automobile service station. Inventory records identified 4 USTs (1-550, 2-1,000, and 1-120 gallon). The contents were not identified, but it was presumed that the three larger USTs were used to store gasoline and the smaller UST was used to store waste oil. (See Fig 1)

In May 1994 the three product USTs and associated pipelines were removed. Several holes were noted on the 550 gallon UST and in two of the pipelines. Five soil samples (1S, 1N, 2, 3S and 3N) were collected from a depth of 10' (approximately 2' below the bottom of the USTs). Three soil samples (FL1 through FL3) were also collected from the pipe trench at 1.5' depth. Groundwater was observed in the pit at approximately 11' bgs. A "grab" groundwater sample (PITGW) was collected. Soil and groundwater samples were analyzed for TPH-G, TPH-D, BTEX, and total lead. Elevated levels of TPH-G and TPH-D were noted in the pipeline and UST excavations. (See Fig 2 and Table 1)

Approximately 40 cy of visibly stained soil were removed from the excavations. Confirmatory soil sample (FL) collected from a depth of 5' in the pipeline trench did not identify TPH-G, D, or BTEX. Confirmatory soil samples (A, B, C, D, E) collected from the UST excavation bottom, at a depth of 10', did not contain TPH-G, -D, or BTEX. However, sidewall samples (NS, NWS, WS, SS, ES) collected from a depth of 8' identified elevated levels of TPH-G and TPH-D along the south wall. (See Fig 3). The UST and pipeline excavations were backfilled with clean, imported fill.

Following the demolition of the building and ancillary structures in October 1994, the waste oil UST was located. Upon removal, several holes were observed in the top and sides of the tank. A soil sample (WOT#1) collected at 5.5' bgs identified up to 35,000 ppm TRPH and 8,000 ppm TPH-D, and low levels of 2-methylnaphthalene and phenanthrene. (See Fig 2). Approximately 5 cy of additional soil were removed to delineate the vertical extent of soil contamination. A soil sample (WOT#2) collected at 10' bgs contained greatly reduced levels of TRPH and TPH-D. SVOCs were not detected. (See Fig 3). Lateral excavation of the waste oil pit was not performed. The pit was backfilled with Class II fill material.

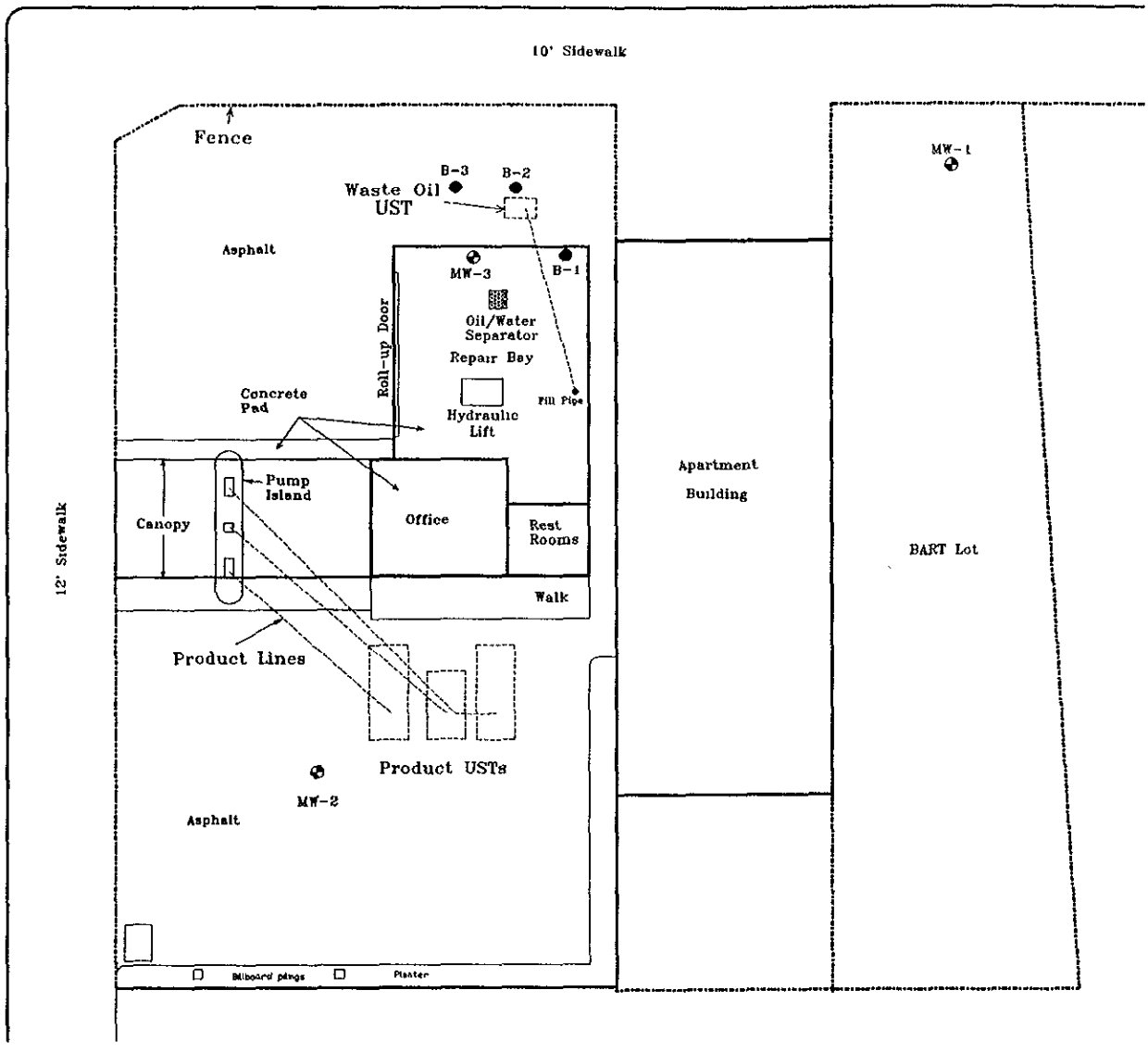
A subsurface investigation was conducted in July 1995. Three soil borings (B1 through B3) were drilled in the vicinity of the former waste oil tank to delineate the lateral extent of soil contamination. Three monitoring wells (MW-1 through MW-3) were also installed to evaluate groundwater quality beneath the site. Soil samples collected from the soil borings around the waste oil excavation did not contain detectable levels of TPH-G, D, TRPH, or BTEX. Soil from the well borings also did not identify detectable levels of contaminants (with the exception of trace levels of what may be laboratory contaminants). (See Fig 4)

Groundwater has been sampled twice (1/95 and 2/96) without detecting TPH-G, TPH-D, BTEX, TRPH, HVOCs, SVOCs, or metals (Cd, Cr, Pb, Ni, Zn). (See Table 2). It appears groundwater quality has not been affected by the fuel release at this site. Continued groundwater monitoring/sampling is not warranted.

bart1.3

40 th Street

Martin Luther King Jr. Way



N

SCALE
in Feet
0 5 10 15 20

LEGEND

- Monitoring Well Location
- Soil Boring Location

Note: All above and below ground structures have been removed.

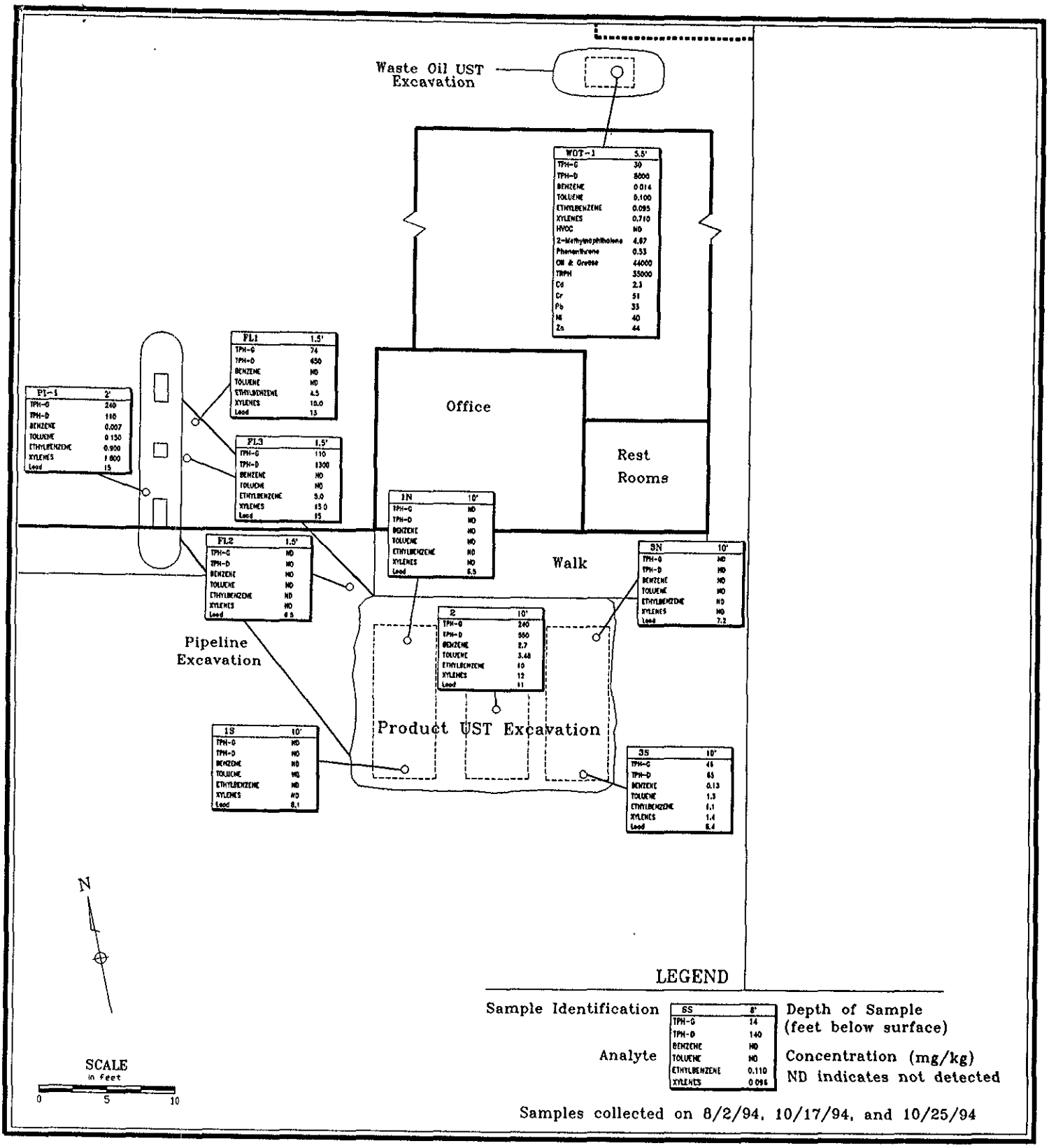
E2 Consulting Engineers, Inc.
1900 Powell Street, Suite 250
Emeryville, California 94608

Site Map Showing Boring and Monitoring Well Locations

3924 Martin Luther King, Jr. Way
Oakland, California

Bay Area Rapid Transit District

JOB NUMBER	DRAWN BY	APPROVED BY	DATE	Figure
96006-01	P Casey		April 15, 1996	1



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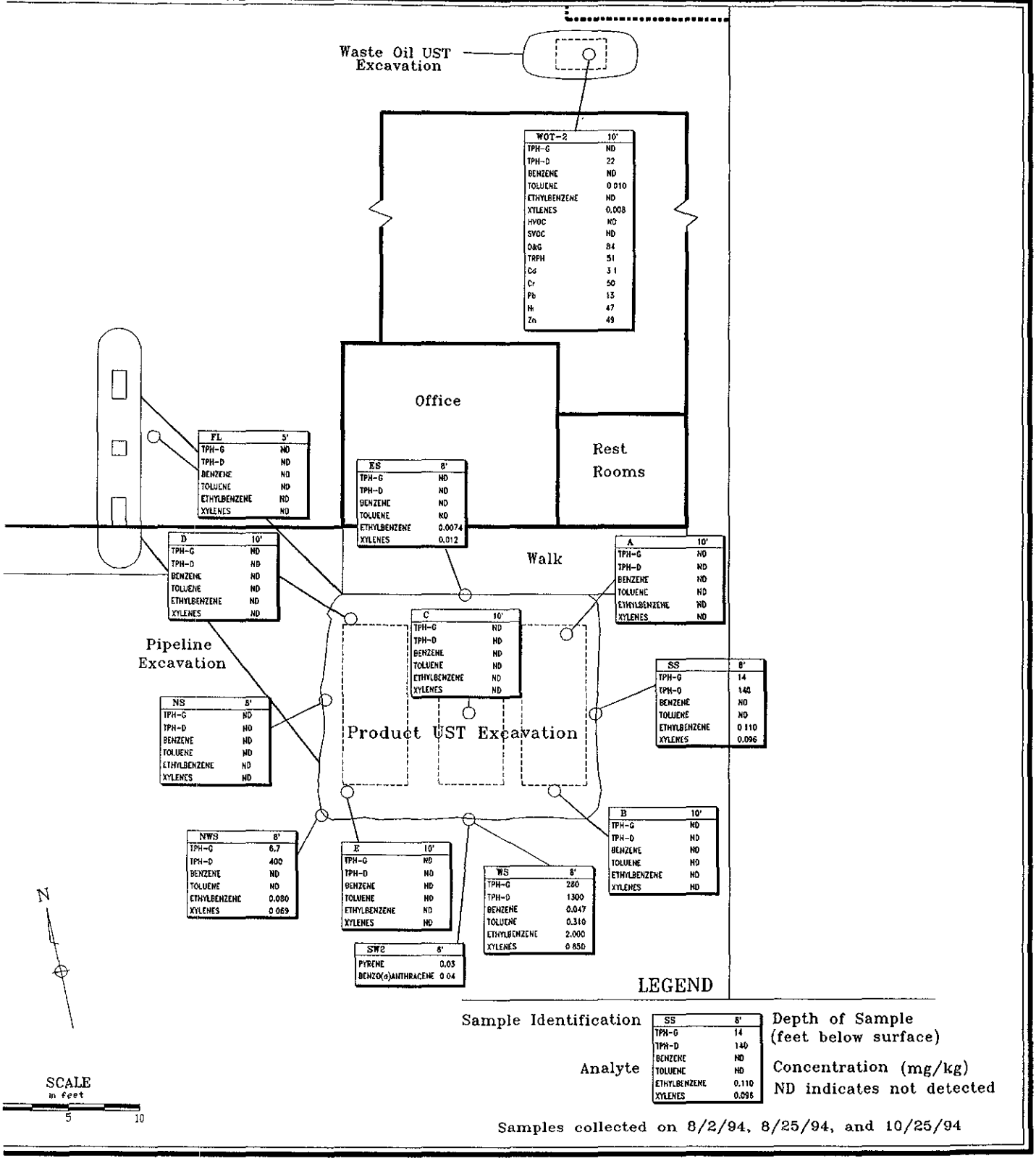
Analytical Results for UST Removal Samples

3924 Martin Luther King, Jr. Way
Oakland, California

Bay Area Rapid Transit District

JOB NUMBER	DRAWN BY	APPROVED BY	DATE	
92017-02-05	P Casey		December 8, 1994	Figure 2



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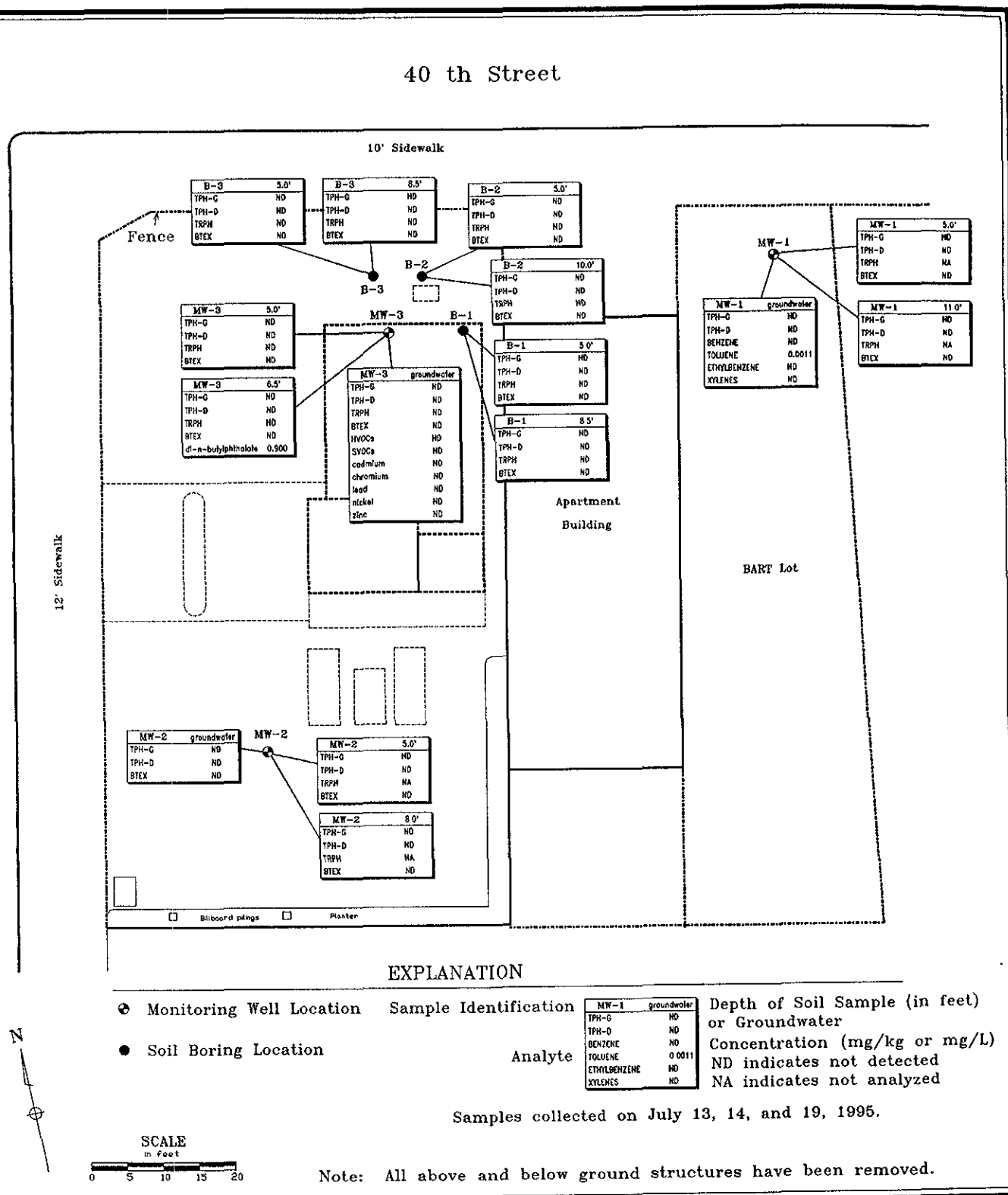
Analytical Results for Overexcavation Samples

3924 Martin Luther King, Jr. Way
Oakland, California

Bay Area Rapid Transit District

JOB NUMBER	DRAWN BY	APPROVED BY	DATE	
92017-02-05	P Casey		December 8, 1994	Figure 3



Analytical Results for Soil and Groundwater Samples

3924 Martin Luther King, Jr. Way
Oakland, California

Bay Area Rapid Transit District

E2 Consulting Engineers, Inc.
1900 Powell Street, Suite 250
Emeryville, California 94608

JOB NUMBER	DRAWN BY	APPROVED BY	DATE	
92017-02-05	P Casey	MH	September 25, 1995	Figure 4

Table 1
Summary of Analytical Results for Groundwater Sample from
Product UST Excavation
3924 Martin Luther King Jr. Way
Bay Area Rapid Transit District

Parameter	Concentration, milligrams per liter PITGW
Total Petroleum Hydrocarbons as gasoline (EPA Method 8015 Modified)	6.7
Total Petroleum Hydrocarbons as diesel (EPA Method 8015 Modified)	<1.0 (1)
Volatile Organic Compounds (EPA Method 8020)	
Benzene	0.150
Toluene	0.012
Ethylbenzene	0.290
Xylenes	0.134
Lead (EPA Method 6010)	<0.01

NOTES:

1 "<" indicates that a chemical was not detected at the detection limit provided.

Table 2
Groundwater Analytical Results
3924 Martin Luther King Jr. Way
Bay Area Rapid Transit District
February 23, 1996

Concentration, milligrams per liter

		TPH-d	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	HVOCs	SVOCs	TRPH	Cadmium	Chromium	Lead	Nickel	Zinc
MW-1															
	7/19/95	<0.05 [1]	<0.1	<0.001	0.0011	<0.001	<0.003	NA [2]	NA	NA	NA	NA	NA	NA	NA
	2/23/96	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	NA	NA	NA	NA	NA	NA	NA
MW-2															
	7/19/95	<0.05	<0.1	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA
	2/23/96	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	NA	NA	NA	NA	NA	NA	NA
MW-3															
	7/19/95	<0.05	<0.1	<0.001	<0.001	<0.001	<0.003	ND [3]	ND	<1	<0.0005	<0.001	<0.010	<0.002	<0.001
	2/23/96	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	ND	<1	NA	NA	NA	NA	NA
Duplicate															
MW-3	7/19/95	<0.05	<0.1	<0.001	<0.001	<0.001	<0.003	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	2/23/96	<0.05	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank															
	7/19/95	NA	NA	<0.001	<0.001	<0.001	<0.003	ND	NA	NA	NA	NA	NA	NA	NA
	2/23/96	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:

TPH-d = Total Petroleum Hydrocarbons as diesel (EPA Method 8015 Modified)

TPH-g = Total Petroleum Hydrocarbons as gasoline (EPA Method 8015 Modified)

Aromatic Volatile Organic Compounds - benzene, toluene, ethylbenzene, and xylenes (EPA Method 602)

HVOCs = Halogenated Volatile Organic Compounds (EPA Method 601)

SVOCs = Semivolatile Organic Compounds (EPA Method 625)

TRPH = Total Recoverable Petroleum Hydrocarbons (EPA Method 418.1)

Metals (EPA Method 6010) - cadmium, chromium, lead, nickel, zinc

1. "<" indicates that a chemical was not detected at the detection limit provided.
2. "NA" indicates that sample was not analyzed for the parameter indicated.
3. "ND" indicates that none of the analytes identified by the analytical method indicated were detected; detection limits vary for each analyte and are identified on the laboratory reports.