

LOP closed file

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 2682 - 1175 Catalina Ave, Livermore, CA 94550

April 12, 1996

Ms. Marla Guensler
Exxon Co
2300 Clayton Rd, Suite 1250
Concord, CA 94540

Mr. Ron Zielinski
Texaco
108 Cutting Blvd
Richmond, CA 94804

Dear Ms. Guensler and Mr. Zielinski:

This letter confirms the completion of site investigation and remedial action for the five former underground storage tanks (1-550, 1-500 waste oil; 2-8000, 1-6000 gasoline) removed from the above site on February 10, 1987 and October 23, 1992. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including the current land use, 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, Division 3, Chapter 16, Section 2721(e) of the California Code of Regulations. Please contact Ms. Eva Chu at (510) 567-6700 if you have any questions regarding this matter.

Very truly yours,

Jun Makishima, Interim Director

cc: Chief, Division of Environmental Protection
Kevin Graves, RWQCB
Mike Harper, SWRCB (with attachment)
✓ files (exxonL.8)

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: December 18, 1995

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: Exxon
Site facility address: 1175 Catalina Ave, Livermore
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 2682
URF filing date: 4/3/87 SWEEPS No: N/A

| <u>Responsible Parties:</u> | <u>Addresses:</u> | <u>Phone Numbers:</u> |
|-----------------------------------|---|-----------------------|
| 1. Exxon Co c/o Marla Guensler | 2300 Clayton Rd, #1250 Concord, CA 94540 | (510) 246-8776 |
| 2. Texaco c/o Ron Zielinski | 108 Cutting Blvd Richmond, CA 94804 | |

| <u>Tank No:</u> | <u>Size in gal.:</u> | <u>Contents:</u> | <u>Closed in-place or removed?:</u> | <u>Date:</u> |
|-----------------|----------------------|------------------|-------------------------------------|--------------|
| 1 | 550 | Waste Oil | Removed | 2/10/87 |
| 2 | 8,000 | Gasoline | Removed | 10/23/92 |
| 3 | 8,000 | Gasoline | Removed | " |
| 4 | 6,000 | Gasoline | Removed | " |
| 5 | 500 | Waste Oil | Removed | " |

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Piping leak
Site characterization complete? YES
Date approved by oversight agency: 4/11/94
Monitoring Wells installed? Yes Number: 4
Proper screened interval? Yes, 5 - 20' in MW-3
Highest GW depth below ground surface: 7.62' Lowest depth: 9.05' in MW-3
Flow direction: NW
Most sensitive current use: Drinking water
Are drinking water wells affected? No Aquifer name: Mocho Subbasin
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:

| <u>Material</u> | <u>Amount (include units)</u> | <u>Action (Treatment or Disposal w/destination)</u> | <u>Date</u> |
|-----------------|-----------------------------------|---|---------------------|
| Tank & Piping | 1 UST 4 USTs | Unknown Erickson, in Richmond | 2/10/87 10/23/92 |
| Soil | 250 cy | Vasco Rd L.F. in Livermore | 11-12/92?? |

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

| Contaminant | Soil (ppm) | | Water (ppb) | |
|----------------|---------------------|--------------------|--------------------|-------|
| | Before ¹ | After | Before | After |
| TPH (Gas) | 1,600 | 320 | 9,200 | ND |
| Benzene | 9.6 | 0.6 | 590 ⁴ | ND |
| Toluene | 67 | ND | 960 ⁴ | ND |
| Ethylbenzene | 22 | 2.9 | 160 | ND |
| Xylenes | 130 | 8.4 | 1,300 ⁴ | ND |
| Oil & Grease | 12,254 ² | 5,200 ³ | | |
| Heavy Metal Cr | 54 ⁵ | | | |

- NOTE:
- 1 From beneath product line, sample PL-4
 - 2 From original waste oil UST removal
 3. From south sidewall of original W.O. pit after overexcavation
 4. "Grab" groundwater collected from fuel pit
 5. From boring SB-5/MW-4 at 20' bgs, but concentrations are consistent with background levels for California

Comments (Depth of Remediation, etc.):

See Section VII, Additional Comments, etc...

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: 4

List enforcement actions taken: **NOV issued Dec 1, 1993**

List enforcement actions rescinded: **Above, in compliance**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Eva Chu Title: Haz Mat Specialist

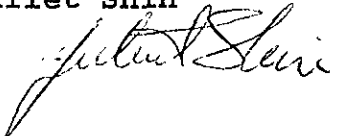
Signature:  Date: 12/21/95

Reviewed by

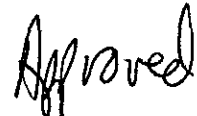
Name: Amy Leech Title: Haz Mat Specialist

Signature:  Date: 12/19/95

Name: Juliet Shin Title: Sr. Haz Mat Specialist

Signature:  Date: 12/20/95

VI. RWQCB NOTIFICATION

Date Submitted to RB: 12/22/95 RB Response: 

RWQCB Staff Name: Kevin Graves Title: AWRCE

Signature:  Date: 1/2/96

VII. ADDITIONAL COMMENTS, DATA, ETC.

On February 10, 1987, a waste oil UST was removed from the north side of the service building and was replaced with a double-walled fiberglass tank, installed east of the service building. A soil sample collected at 11' depth exhibited up to 12,254 ppm as oil and grease using EPA Method 3550. At 14' depth the concentration of oil and grease decreased to 172 ppm. On February 17, 1987 a side wall sample from the south wall, at 9' depth, was analyzed for TPH as waste oil and chlorinated hydrocarbons. Up to 5,200 ppm oil and grease and no VOCs were detected.

In February 1988, a soil boring was advanced through the former waste oil pit, to a depth of 25'. At a depth of 9', up to 700 ppm TOG (EPA Method 413.2), 670 ppm TPH (EPA Method 418.1), 0.29, 0.12, and 0.87 ppm TEX, respectively, were detected. VOCs were not detected at 14' depth. At 19' TOG and TPH-MO were not detected. It appears residual oil and grease is limited in extent, to the immediate vicinity of the waste oil pit, and to a depth of 14 to 19'.

From May 1988 through November 1989, a total of five other soil borings were emplaced to a maximum depth of 25 feet; SB-1 in the NW corner and SB-2 in the SW corner of the property, and SB-3, SB-4, and SB-5 around the gasoline tank pad and pump island. Soil samples collected did not detect TPH-G or BTEX. Groundwater was not encountered. (See Fig 1.)

On October 23, 1992, three gasoline USTs and the double-walled fiberglass waste oil tank were removed. Soil samples were collected from the sidewalls of the gasoline pit (due to water in pit), and from beneath the former waste oil tank and product lines. Soil from the gasoline pit and piping trench were analyzed for TPH-G, BTEX, and organic lead (gasoline pit only). Soil from beneath the waste oil tank was analyzed for TPH-G, BTEX, TPH-D, TOG, HVOCs and metals Cd, Cr, Pb, Ni, and Zn. Analytical results of soil from the gasoline and waste oil pits were unremarkable. A soil sample, PL-4, from beneath the product line, exhibited up to 1,600 ppm TPH-G, 9.6, 67, 22, and 130 ppm BTEX, respectively. A "grab" groundwater sample, MTP, from the fuel pit exhibited up to 7,300 ppb TPH-G, 590, 960, 130, and 1,300 ppb BTEX, respectively. (See Fig 2.)

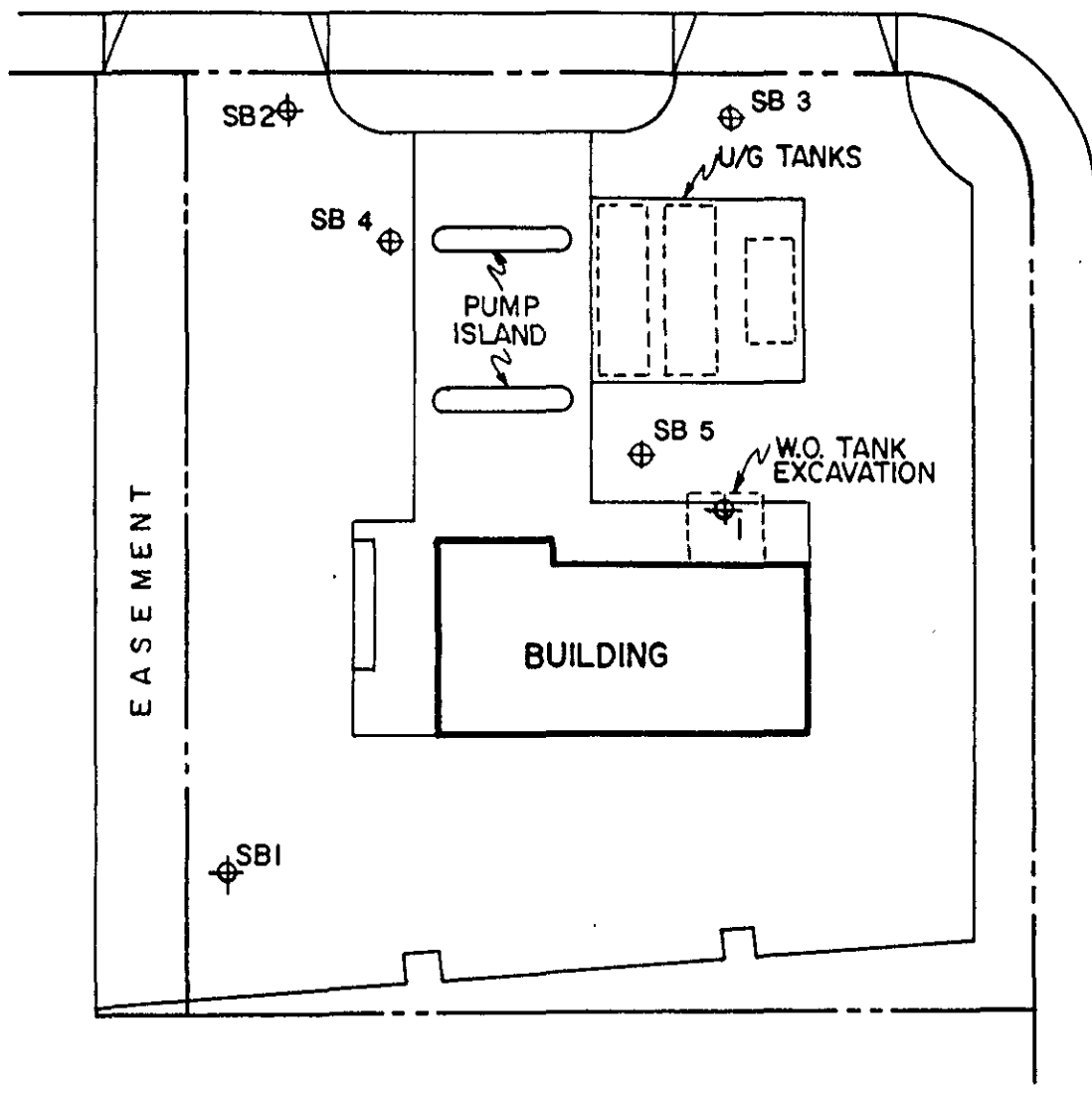
On November 9, 1992 a hand-auger soil sample was collected from beneath the hydraulic lifts, from approximately 8' bgs. Up to 1,300 ppm TOG was detected. The hydraulic lifts were removed in March 1993. The "hot" area by PL-4 was also overexcavated at this time. Soil samples were collected but no laboratory results have been received, to date.

In February 1994, six soil borings (SB-1 thru 6) were emplaced, of which four were converted into monitoring wells MW-1 thru 4. Soil samples collected did not detect TPH-G, BTEX, or TOG, except for boring SB-3/MW-3, which exhibited up to 320 ppm TPH-G, and 0.6, ND, 2.9, and 8.4 ppm BTEX, respectively at 10.25' bgs. Borings SB-1 and SB-4 did not encounter groundwater. (See Fig 3.)

First encountered water at this site appears to be perched atop silty clay sediments at approximately 12 to 20' bgs. (See Fig 4.) Groundwater was not encountered in the original waste oil tank pit, nor in the six soil borings emplaced in 1988. An investigation at an adjacent site (1925 Barcelona, approximately one block away) did not encounter groundwater, either, to a depth of 45'.

Perched groundwater has been sampled for seven consecutive quarters (Feb 1994 - Aug 1995). Maximum TPH-G and BTEX detected was initially in well MW-3, at 9,200 ppm, and 9.7, 30, 160, and 1,200 ppb, respectively. Since the initial sampling event, trace to ND levels have been detected, suggesting natural attenuation is occurring. (See Table 1.) It does not appear the fuel release has significantly impacted groundwater quality beneath the site. Residual hydrocarbons in soil is not of human health risk. Continued groundwater sampling is not warranted.

CATALINA DR.



HOLMES ST.

LEGEND

⊕ SOIL BORING

FIGURE 1. SITE PLAN

May 1998 - Nov 1989

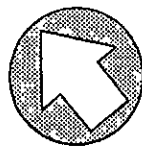
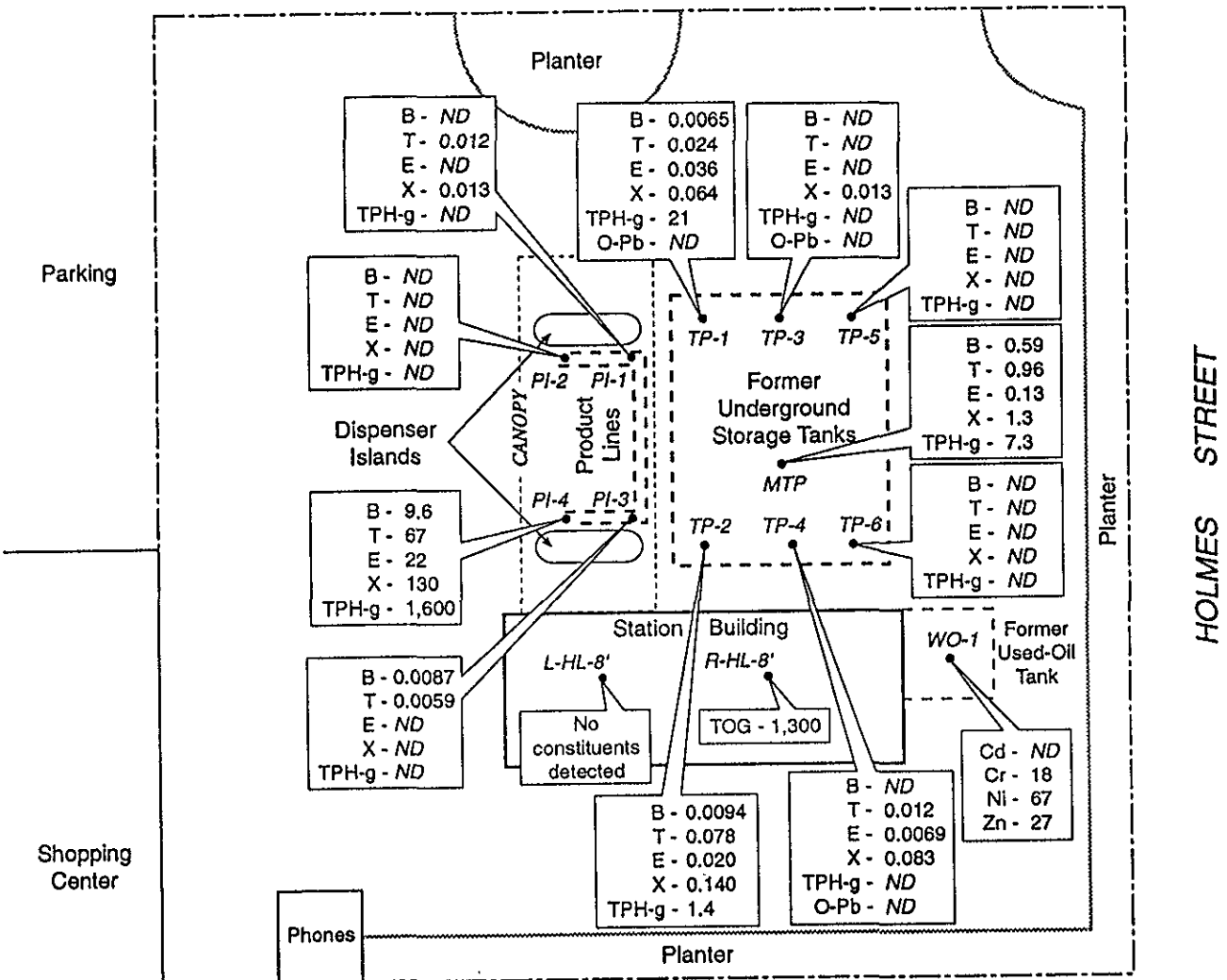


0 FEET 30

GROUNDEWATER TECHNOLOGY, INC.

TEXACO REFINING & MARKETING INC.
1175 CATALINA DR.
LIVERMORE, CALIFORNIA

CATALINA AVENUE



Suspected Direction of Groundwater Flow



Not to scale

B - Benzene
 T - Toluene
 E - Ethylbenzene
 X - Total Xylenes
 TPH-g - Total Petroleum Hydrocarbons as gasoline
 TOG - Total Oil and Grease
 O-Pb - Organic Lead
 ND - Not Detected

Figure 3.2 Total Petroleum Hydrocarbon concentrations (ppm) in soil samples collected on 23 October 1992, Exxon RS 7-0222, 1175 Catalina Avenue, Livermore, California. (Adapted from figure provided by Hydro-Environmental technologies, Inc., December 1992)



| | | | |
|----------|-----|------|----------|
| Drawn | MAW | Date | 12/27/93 |
| Reviewed | llb | Date | 12/30/93 |
| Rev | | Date | |
| Final | HJM | Date | 12/30/93 |

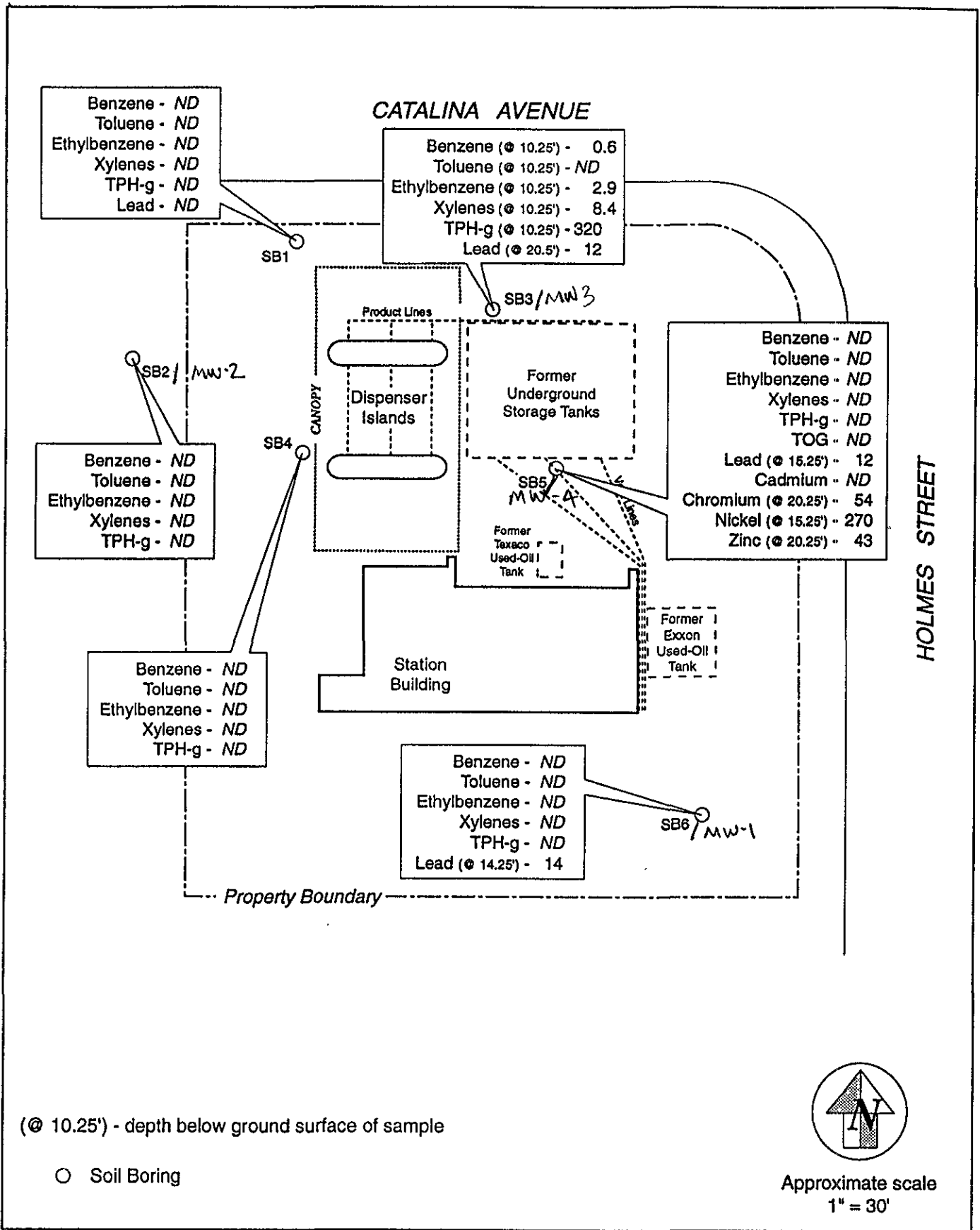


Figure 3 Highest total petroleum hydrocarbon and metal concentrations (mg/kg) in soil samples collected 14-18 February 1994, former Exxon RS 7-0222, 1175 Catalina Ave., Livermore, California. (Adapted from Lee & Associates Site Plan, 08/06/92)



| | | | |
|----------|-----|------|----------|
| Drawn | MAW | Date | 1/5/94 |
| Reviewed | TRW | Date | 30 March |
| Rev | | Date | |
| Final | | Date | |

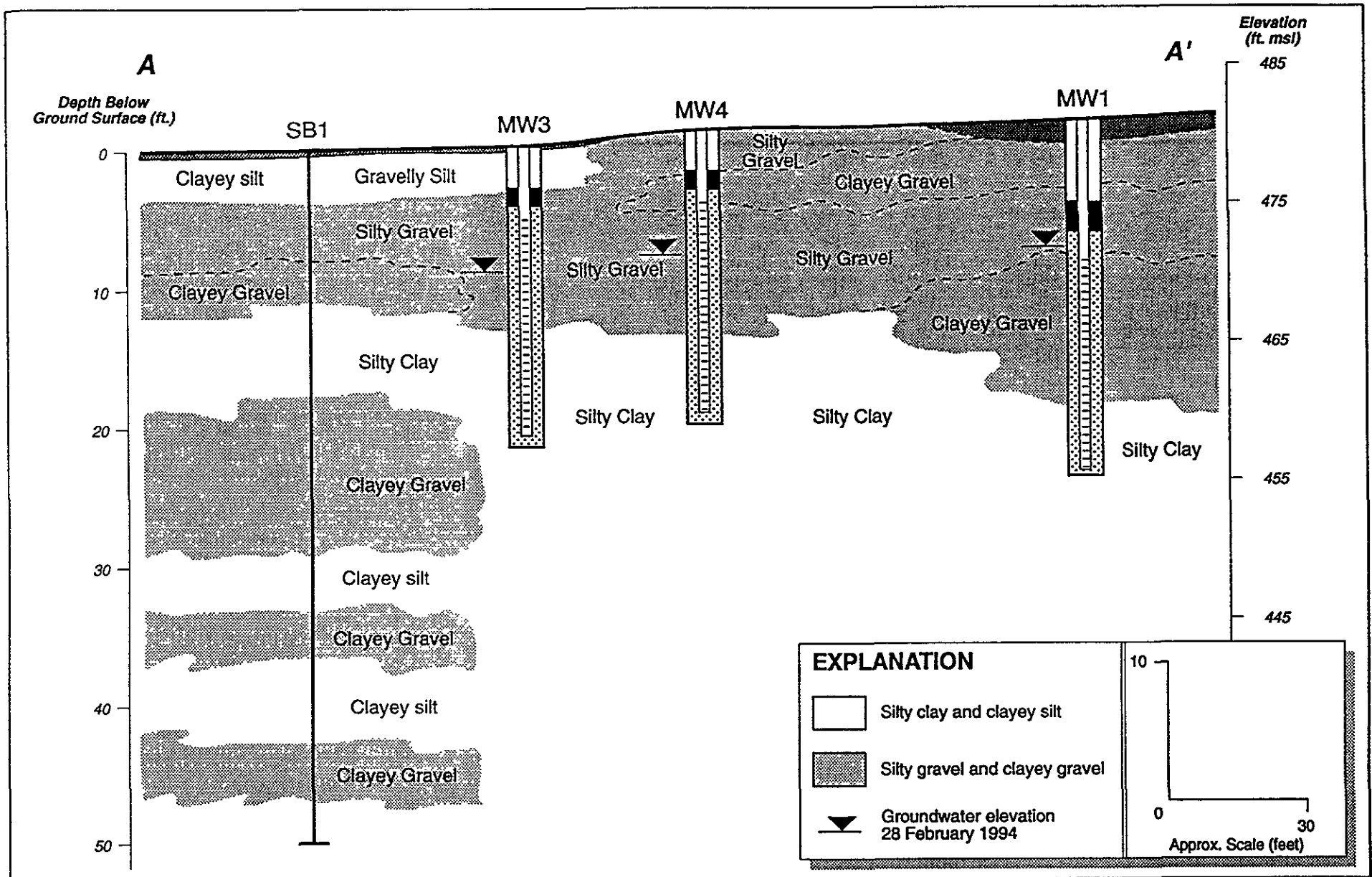


Figure 6.4 Cross-section A-A', former Exxon RS 7-0222, Livermore, California.



| | | | |
|----------|------------|------|-------------|
| Drawn | MAW | Date | 3/18/94 |
| Reviewed | <i>TRW</i> | Date | 30 March 94 |
| Rev | | Date | |
| Final | | Date | |

TABLE 1 GROUNDWATER GAUGING DATA AND ANALYTICAL RESULTS, FORMER EXXON RS 7-0222,
1175 CATALINA AVENUE, LIVERMORE, CALIFORNIA, 1994-1995

| Well No. | Date | Casing Elevation (ft msl) | Depth to Water (ft) | Groundwater Elevation (ft msl) | Concentration (µg/L) | | | | | | | |
|----------|----------|---------------------------|---------------------|--------------------------------|----------------------|---------|---------------|---------|-------|----------|--------|------|
| | | | | | Benzene | Toluene | Ethyl-benzene | Xylenes | TPH-g | Chromium | Nickel | MTBE |
| MW1 | 02/28/94 | 489.86 | 8.97 | 480.89 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | NA | NA | NA |
| | 05/03/94 | | 9.41 | 480.45 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | NA | NA | NA |
| | 08/09/94 | | 9.92 | 479.94 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | NA | NA | NA |
| | 11/02/94 | | 9.58 | 480.28 | <0.5 | <0.5 | <0.5 | <0.5 | 53 | NA | NA | NA |
| | 02/08/95 | | 8.11 | 481.75 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | NA | NA | NA |
| | 05/09/95 | | 8.90 | 480.96 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 08/10/95 | | 8.63 | 481.23 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | NA | NA | <2.5 |
| MW2 | 02/28/94 | 486.45 | 7.53 | 478.92 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | NA | NA | NA |
| | 05/03/94 | | 8.08 | 478.37 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | NA | NA | NA |
| | 08/09/94 | | 8.45 | 478.00 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | NA | NA | NA |
| | 11/02/94 | | 8.21 | 478.24 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | NA | NA | NA |
| | 02/08/95 | | 6.70 | 479.75 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | NA | NA | NA |
| | 05/09/95 | | 7.70 | 478.75 | NS | NS | NS | NS | NS | NS | NS | NS |
| | 08/10/95 | | 7.58 | 478.87 | NS | NS | NS | NS | NS | NS | NS | NS |
| MW3 | 02/28/94 | 487.79 | 8.38 | 479.41 | 9.7 | 30 | 160 | 1,200 | 9,200 | NA | NA | NA |
| | 05/03/94 | | 9.05 | 478.74 | <0.5 | 2.7 | 1.0 | 7.1 | 270 | NA | NA | NA |
| | 08/09/94 | | 8.98 | 478.81 | <0.5 | 2.4 | 1.2 | 4.1 | 64 | NA | NA | NA |
| | 11/02/94 | | 8.99 | 478.80 | <0.5 | <0.5 | <0.5 | <0.5 | 51 | NA | NA | NA |
| | 02/08/95 | | 7.62 | 480.17 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | NA | NA | NA |
| | 05/09/95 | | 8.48 | 479.31 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | NA | NA | NA |
| | 08/10/95 | | 8.49 | 479.30 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | NA | NA | <2.5 |

TABLE 1 (continued)

| Well No. | Date | Casing Elevation (ft msl) | Depth to Water (ft) | Groundwater Elevation (ft msl) | Concentration (µg/L) | | | | | | | | |
|-------------|----------|---------------------------|---------------------|--------------------------------|----------------------|---------|---------------|---------|-------|----------|--------|------|----|
| | | | | | Benzene | Toluene | Ethyl-benzene | Xylenes | TPH-g | Chromium | Nickel | MTBE | |
| MW4 | 02/28/94 | 488.53 | 8.65 | 479.88 | <0.5 | <0.5 | <0.5 | 1.9 | <50 | NA | NA | NA | |
| | 05/03/94 | | 8.75 | 479.78 | <0.5 | <0.5 | 0.6 | 0.8 | <50 | <10 | <20 | NA | |
| | 08/09/94 | | 9.24 | 479.29 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | 50 | 100 | NA | |
| | 11/02/94 | | 9.16 | 479.37 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <10 | <20 | NA | |
| | 02/08/95 | | 7.72 | 480.81 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <10 | <50 | NA | |
| | 05/09/95 | | 8.77 | 479.76 | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | 08/10/95 | | 8.79 | 479.74 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | <10 | <50 | <2.5 | |
| Trip Blank | 08/10/95 | | | | <0.5 | <0.5 | <0.5 | <0.5 | <50 | NA | NA | <2.5 | |
| Rinse Blank | 08/10/95 | | | | <0.5 | <0.5 | <0.5 | <0.5 | <50 | NA | NA | <2.5 | |

NA Not analyzed.

NS Not sampled.

TPH-g Total Petroleum Hydrocarbons as gasoline.

MTBE Methyl t-butyl ether.

ft msl Feet relative to mean sea level.

µg/L Micrograms per liter.