

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



March 9, 2000

STID 4115

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

Mr. Hugh Murphy
Hayward Fire Department
777 B Street
Hayward, CA 94541

RE: Fairview Fire Department, Station #8, 24200 Fairview Avenue, Hayward

Dear Mr. Murphy:

This letter confirms the completion of a site investigation and remedial 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 tank 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 Section 2721(e) of Title 23 of the California Code of Regulations.

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

Sincerely,

Mee Ling Tung
Director, Environmental Health Services

c: Chuck Headlee, RWQCB
Dave Deaner, SWRCB (w/attachment)
SOS/files

SIGNED
COPY-

01-497

ENVIRONMENTAL
PROTECTION

CASE CLOSURE SUMMARY

00 MAR -8 ~~1999~~ ¹⁹⁹⁸ ~~Leaking~~ Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: 02/01/00

Agency name: Alameda County-EPD
City/State/Zip: Alameda, CA 94502
Responsible staff person: Scott Seery

Address: 1131 Harbor Bay Pkwy #250
Phone: (510) 567-6700
Title: Haz. Materials Spec.

II. CASE INFORMATION

Site facility name: Fairview Fire Department #8
Site facility address: 24200 Fairview Avenue, Hayward, 94541
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 4115
URF filing date: 05/13/99 SWEEPS No: N/A

CALIFORNIA REGIONAL WATER
FEB 29 2000
QUALITY CONTROL BOARD

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
Hayward Fire Department Attn: Hugh Murphy	777 - B Street Hayward, CA 94541	(510) 583-4924

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	1000	Diesel/Gasoline	Removed	12/11/98

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: tank breach during removal

Site characterization complete? YES

Date approved by oversight agency:

Monitoring Wells installed? YES (in UST pit) Number: 1

Proper screened interval? YES

Highest GW depth below ground surface: UNK Lowest depth: UNK

Flow direction: UNK, but presumed SW

Most sensitive current use: NONE

Are drinking water wells affected? NO Aquifer name: NA

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

Off-site beneficial use impacts (addresses/locations): NONE

Leaking Underground Fuel Storage Tank Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)

Report(s) on file? YES Where is report 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	1000 gals	<u>Disposal</u> – Erickson, Inc. Richmond, CA	12/11/98
Piping	~ 17 ft.	as above	
Free Product	NA		
Soil	~24.5 tons	<u>Disposal</u> – Altamont L.F. Livermore, CA	01/07/00
Groundwater	~1300 gals	<u>Disposal</u> – Seaport Env. Redwood City, CA	04/02/99
	~1500 gals	<u>Disposal</u> – Seaport Env. Redwood City, CA	01/08/99

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm) ¹		Water (ppb) ²	
	<u>Before</u>	<u>After</u>	<u>Before</u>	<u>After</u>
TPH (Gas)	ND	NA	3100	700
TPH (Diesel)	1300	"	26,000	6100
Benzene	ND	"	14	<5.0
Toluene	"	"	64	5.5
Xylene	0.021	"	180	55
Ethylbenzene	ND	"	31	11
Other: MtBE	NA	"	140 (8260)	<25

Note: 1) "Before" soil results are from the sample collected from below the dispenser. Soil samples were not collected from the UST pit because the UST pit was carved out of well-indurated sandstone bedrock.

2) "Before" and "After" water samples were collected from within the UST pit.

Comments (Depth of Remediation, etc.):

One 1000-gallon FRP fuel UST and associated dispenser/piping were removed from Fairview Station #8 on December 11, 1998. This UST system had been used for both diesel and gasoline storage/dispensing over

Leaking Underground Fuel Storage Tank Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)

the years, although it was reportedly last used for diesel. The site is located in the Hayward hills on the eastern side of Fairview Avenue, on a lot that is cut into a moderate westward-facing slope. The tank pit is located ~100 feet from Fairview Avenue, towards the rear of the lot. The tank was originally set on a bed of pea gravel placed at the base of an excavation that was carved out of the shallow sandstone bedrock that underlies the site.

During excavation activities, a large chunk of previously-excavated sandstone fell onto the top of the UST while it was still in the pit, causing it to fracture. The UST broke into pieces when attempts were made to remove it intact. Residual diesel fuel spilled from the UST and into the pit, mixing with apparent "perched" water that had accumulated in the pit bottom. Diesel-impacted water was subsequently pumped into eleven 55-gallon drums that were assembled at the site.

Soil samples were not collected from the UST pit due to the nature of both the native material (bedrock) and backfill (pea gravel). A soil sample was collected, however, from below the dispenser, revealing only 1300 mg/kg TPH-D and trace total xylene isomers. Initial water samples were collected from recharge into the pit, but only after it was continuously pumped and all 11 drums were filled. Initial results indicated up to 26,000 ug/l TPH-D, 3100 ug/l TPH-G, 140 ug/l MtBE (8260 confirmation), and noteworthy concentrations of BTEX.

A perforated well casing was placed into the excavation, and the excavation backfilled with pea gravel. This "well" was used to pump the UST pit and collect follow-up samples in the ensuing months. Approximately 2800 gallons of impacted water were reportedly pumped from the UST excavation over the course of this project, and eventually disposed of at Seaport Environmental (Redwood City, CA).

Approximately 24.5 tons of previously-excavated soil was transported to Altamont landfill (Livermore, CA) for disposal in January 2000.

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: NA

Should corrective action be reviewed if land use changes? YES

Monitoring wells Decommissioned: NO

Leaking Underground Fuel Storage Tank Program

IV. CLOSURE (Continued)


Number Decommissioned: NA Number Retained: 1 (backfill observation well)

List enforcement actions taken: NA

List enforcement actions rescinded: NA

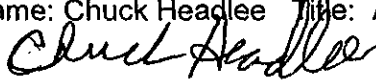
V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Scott Seery Title: Haz Mat Specialist
Signature:  Date: 02/01/00

Reviewed by
Name: Tom Peacock Title: Supervising Haz Mat Specialist
Signature:  Date: 2-1-00

Name: Eva Chu Title: Haz Mat Specialist
Signature:  Date: 1/28/00

VI. RWQCB NOTIFICATION

Date Submitted to RB: 02/02/00 RB Response: *Concur*
RWQCB Staff Name: Chuck Headlee Title: Assoc. Eng. Geologist Date: 3/1/00


VII. ADDITIONAL COMMENTS, DATA, ETC.

This case should be closed as it meets the definition of a "Low Risk Groundwater Case", as outlined in the 05 January 1996 guidance from the San Francisco Bay Regional Water Quality Control entitled "Regional Board Supplemental Instructions to State Water Board December 8, 1995, Interim Guidance on Required Cleanup at Low-Risk Sites", as follows:

- 1) The leak has been stopped and ongoing sources, including free product, have been removed or remediated.

The subject UST was removed in 1998. No ongoing HC source remains at the site. "Free product", as well as dissolved-phase product, has been removed to the extent practical. The release appears to have been limited to the bedrock "bathtub" into which the UST had been placed.

Leaking Underground Fuel Storage Tank Program

VII. ADDITIONAL COMMENTS, DATA, ETC. (Continued)

2) The site has been adequately characterized.

Based on our knowledge of the bedrock geology at this site, it is reasonable to conclude that the release was substantially, if not wholly, limited to the tank pit. No further assessment appeared warranted.

3) The dissolved hydrocarbon plume is not migrating.

Based on our knowledge of the bedrock geology at this site, it is reasonable to conclude that the release was substantially, if not wholly, limited to the tank pit. The only "dissolved HC plume" was comprised of "perched" water that drained into the pit and was subsequently pumped out.

4) No water wells, deeper drinking water aquifers, surface water, or other sensitive receptors are likely to be impacted.

Although the site is located in an unincorporated portion of the Hayward hills, residents are reportedly connected to municipal water supplies. Nevertheless, Alameda County Public Works well records do indicate the nearest domestic well is ~2200' from the site.

5) The site presents no significant risk to human health.

The former UST site is currently capped in asphaltic concrete. Potential exposure pathways are not apparent. In addition, concentrations of residual hydrocarbons are well below levels that would otherwise indicate the need to evaluate potential human health risks.

6) The site presents no significant risk to the environment.

No potential risk was identified due to the geographic separation of the site from potential receptor locations. Sulphur Creek, the nearest apparent surface water body, is ~2200' from the site.

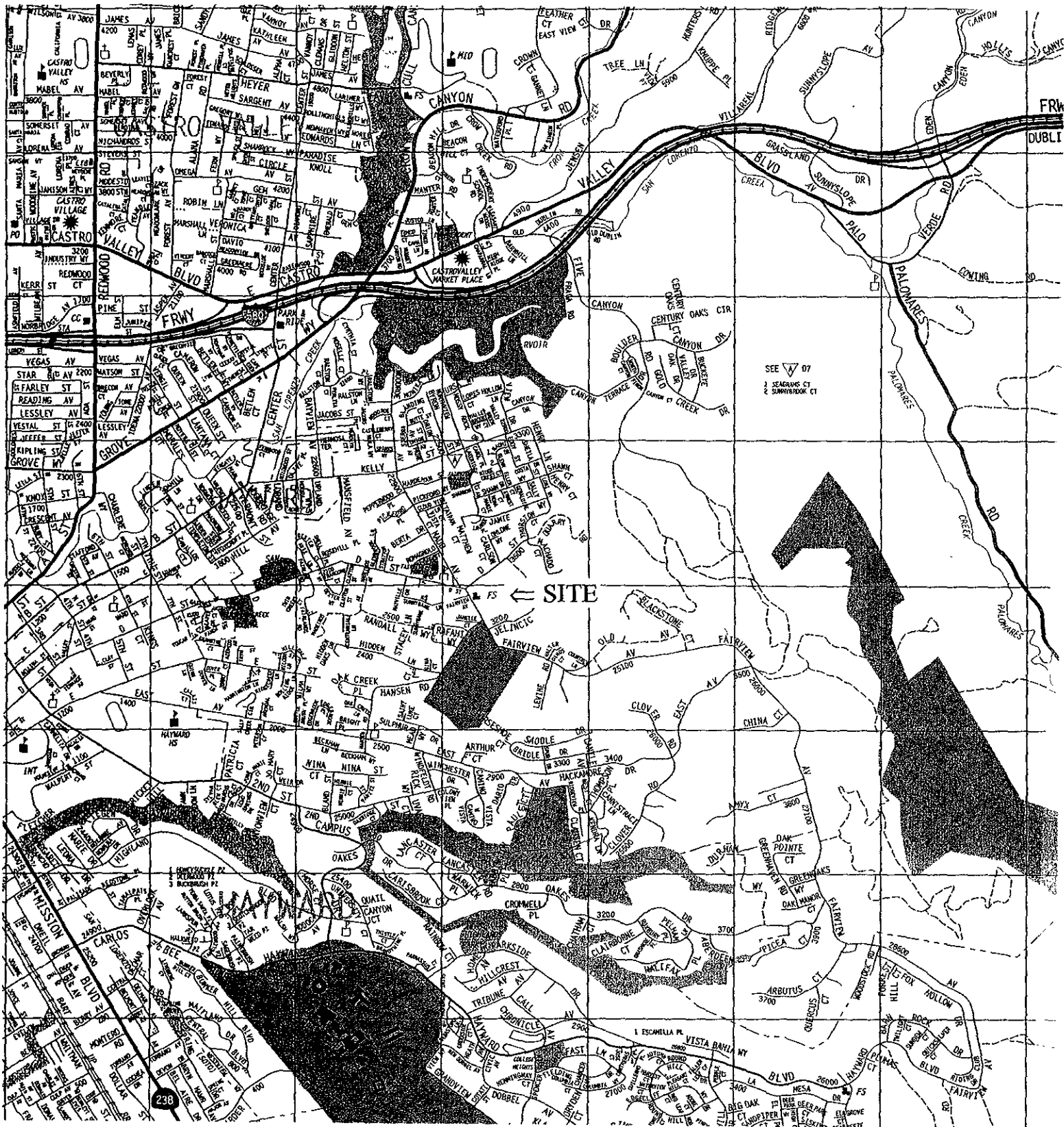
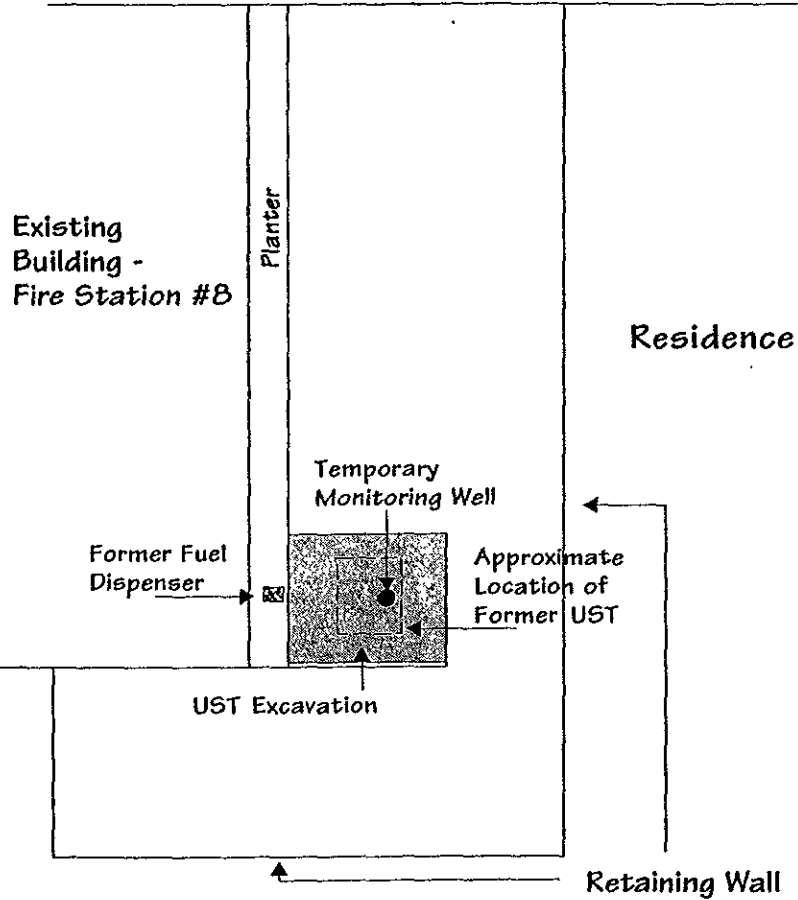


Figure 1. Location Map
 Fairview Fire Station #8, 24200 Fairview Avenue, Hayward

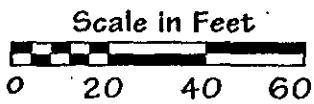


Residence

Fairview Avenue



Residence



Title: Site Map Figure 2	
24200 Fairview Avenue Hayward, California	
Figure Number: 2	Scale: 1" = 20'
Drawn By: SPS	Date: 4/14/99
Project No.: 98-6073-008.00	
ACC Environmental Consultants 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510) 638-8400 Fax: (510) 638-8404	

Table 1. **Underground Storage Tank Closure Sampling Results**
Fairview Fire Station #8, 24200 Fairview Avenue, Hayward

Sample	TPH-G ¹	TPH-D	Benzene	Toluene	Ethyl-Benzene	Xylenes	MtBE ²
Pit water (initial)	3,100	26,000	14	64	31	180	140
Pit water (final)	700	6100	< 2.5	5.5	11	55	< 25
Dispenser soil	1.1	1300	< 0.005	< 0.005	< 0.005	0.021	NA

Notes:

1. For all water samples, concentrations expressed in micrograms per liter (ug/l)
 Soil sample concentrations expressed in micrograms per kilogram (mg/kg)
2. Initial MtBE concentration confirmed using EPA Method 8260