

**OHM**

September 24, 1987

Mr. Jim Ebersole  
Emeryville Fire Marshall  
6303 Holis Street  
Emeryville, CA 94608

Dear Mr. Ebersole:

RE: Proposal for In-place Closure of an Underground Storage  
Tank Located at the Former Grow Group Facility, Emery-  
ville, California

OHM is pleased to submit this proposal for in-place closure of an out of service underground storage tank located at the former Grow Group Facility in Emeryville, California. The tank is believed to have previously stored mineral spirits. The proposed closure will be performed in accordance with all applicable local and state regulations.

On September 1, 1987, OHM personnel conducted a site investigation to determine the capacity, orientation and structural soundness of the underground storage tank.

The following measurements were taken:

- o Tank fill pipe diameter - 4 in. ID.
- o Tank fill pipe length - 4.78 ft.
- o Depth to bottom of tank - 12.06 ft.  
(measured from top of fill pipe)
- o Tank diameter - 7.3 ft.
- o Depth to liquid inside tank - 11.08 ft.
- o Depth of liquid - 0.98 ft.
- o Estimated volume of liquid - 480 to 540 gal.

OHM personnel used a modified camera system to take photographs of the tank interior. The enclosed photograph was taken with the camera facing east toward Linden Street. Photographs facing north, south, and west showed the interior tank walls at very close range. The fill pipe through which the photographs were taken is located at the western edge of

the storage tank. The tank lies parallel to the sidewalk and runs in a west to east direction (see Figure 1). The tank is located at approximately 4.8 feet below the sidewalk grade. The vertical pipe shown at the eastern wall of the tank is thought to be the product withdrawal pipe.

What appears to be a condensation line can be seen at approximately 2.5 feet above the liquid level. The condensation line is located at the same depth (approximately 8 feet below grade) as ground water observed within an open excavation situated approximately 50 feet away. It appears that the tank is structurally sound due to the difference in the ground water level outside of the tank and the liquid level within the tank.

The following reasons are presented to the City of Emeryville for consideration of an in-place tank closure:

- o The underground storage tank lies in close proximity to adjacent buildings. The tank is oriented in an west to east direction, running parallel to the Rockridge Warehouse Facility. The tank is 7.3 feet in diameter and is within 3.5 feet from the building. Excavation may cause structural damage to the adjacent facility and disruption or inconvenience of nearby business operations.
- o The tank lies in close proximity to underground utility lines. A Pacific Gas and Electric natural gas line is located approximately one foot north of the tank oriented in an east-west direction. A second unknown utility line, located just east of the tank, runs at an angle to the building at approximately 1.5 feet below the base of the sidewalk (see Figure 2).
- o The area has a relatively high water table. Ground water is encountered at a depth of approximately 8 feet below the sidewalk grade. Removal of the overburden material may cause the tank to become buoyant causing abrupt movement and possible injury or utility line rupture

The following procedures will be implemented upon approval of in-place closure:

- o A sample of the liquid contents present inside the storage tank will be analyzed to properly identify all constituents present
- o The liquid contents will be removed and properly disposed of

- o All gaseous vapors will be purged out of the storage tank with carbon dioxide
- o The tank will be triple-rinse cleaned and the rinse water properly disposed of
- o The tank will be filled in place with a silica sand slurry

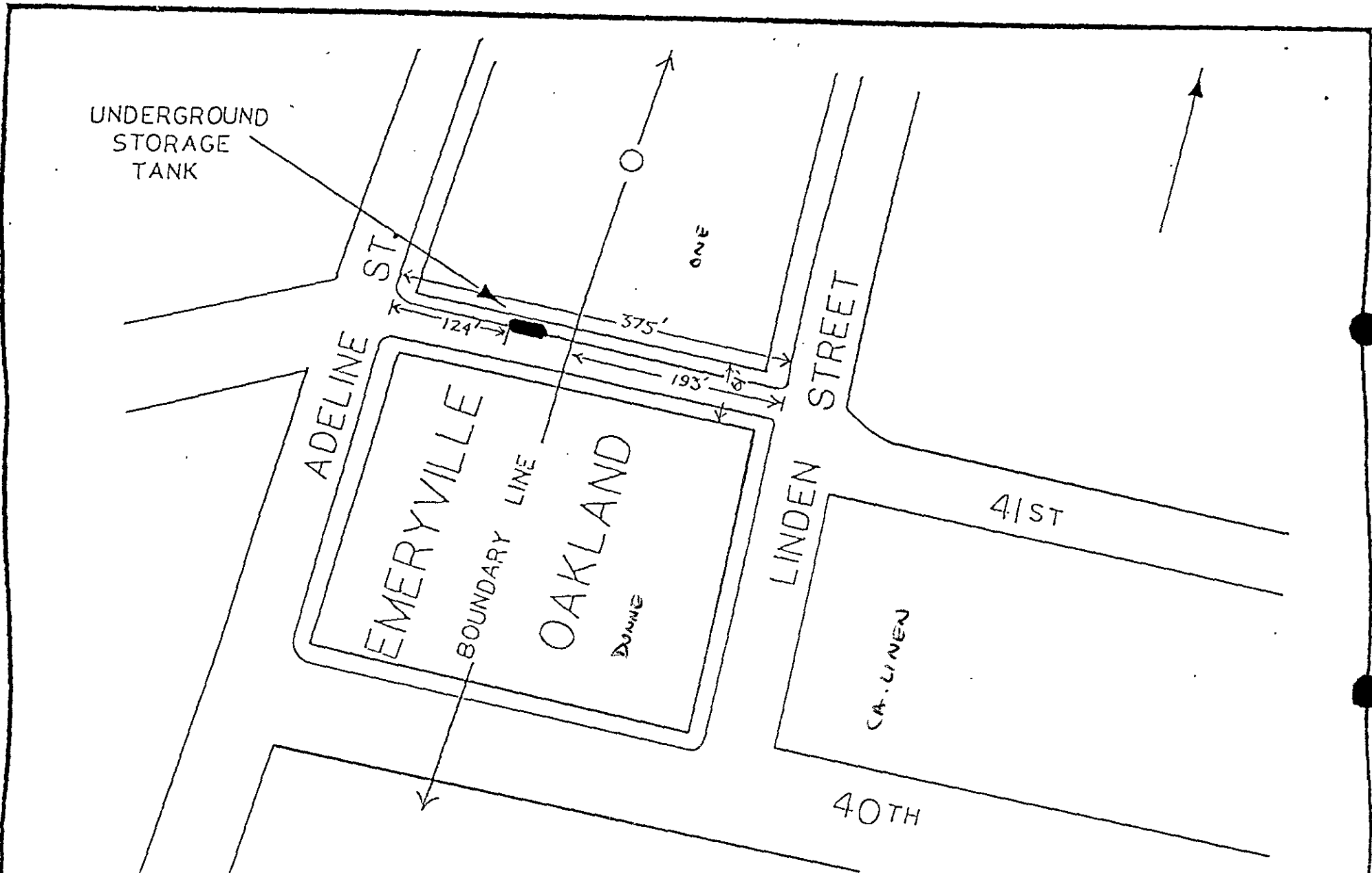
If you have any additions or comments, please call me at 916-372-1331.

Sincerely,

*Peter W. Coutts*

Peter W. Coutts  
Project Hydrogeologist

PWC:sag

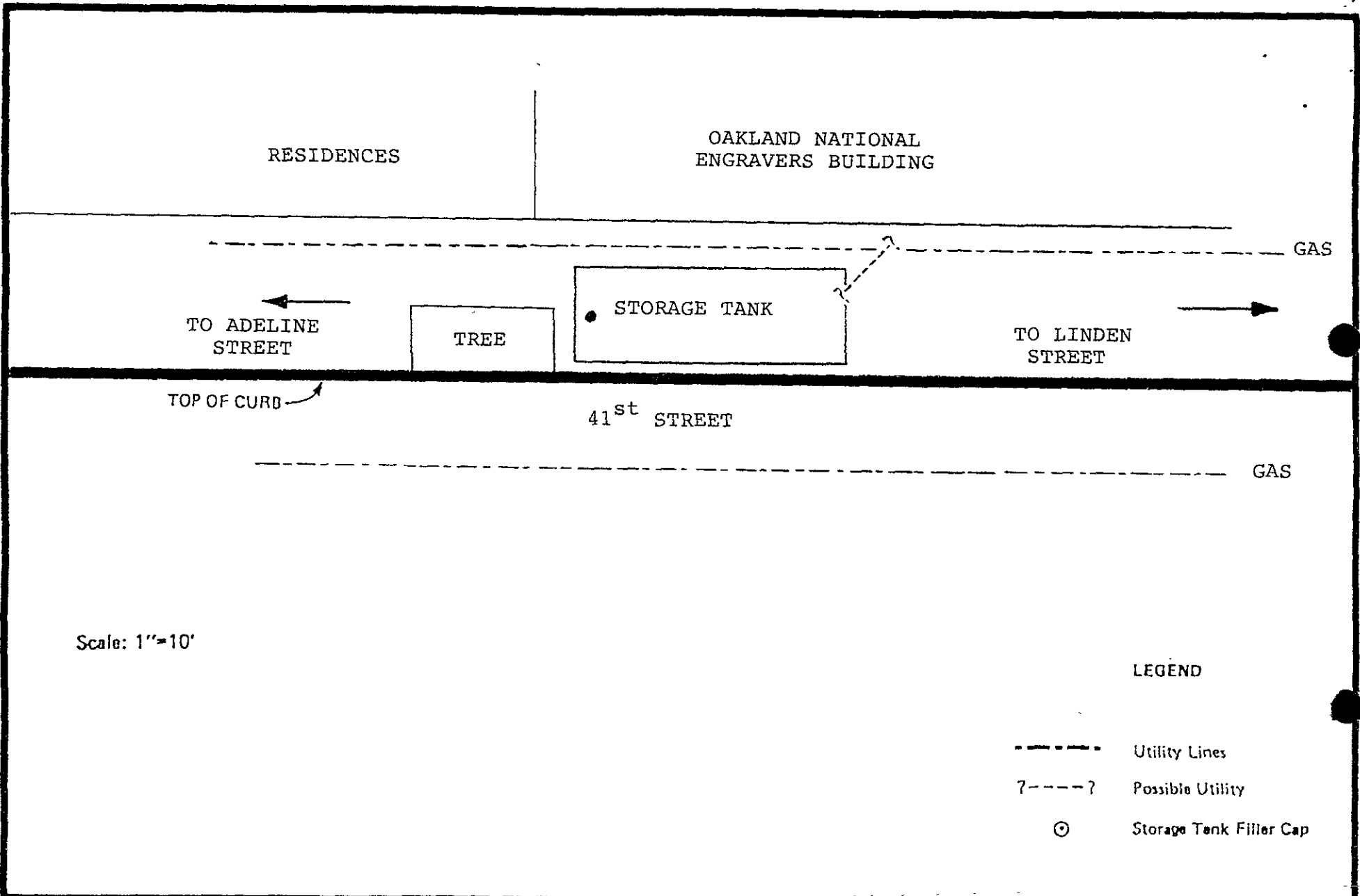


SCALE	DRAWN BY	NO.	DATE	REVISION	BY
NONE	DAB				
DATE	CHECKED				
9-3-87					
SHEET ___ OF ___	APPROVED				

FIGURE 1.  
UNDERGROUND STORAGE  
TANK LOCATION

**OHM**  
THE ENVIRONMENTAL SERVICES COMPANY  
3101 351  
410/423-3524  
EMERYVILLE, OHIO 44047  
800/527-8540

PROJECT 5188	DRAWING	REVISION
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Scale: 1"=10'

LEGEND

- Utility Lines
- ?-----? Possible Utility
- ⊙ Storage Tank Filler Cap

SCALE 1"=10'	DRAWN-BY P.C.	NO.	DATE	REVISION	BY
DATE 9/24/87	CHECKED				
SHEET ___ OF ___	APPROVED				

FIGURE 2.  
UNDERGROUND UTILITY  
LOCATIONS

O. H. MATERIALS CO.  
EMERGENCY RESPONSE AND  
ENVIRONMENTAL RESTORATION  
BOX 551 FINDLAY OHIO  
419-473-3520 800-337-9540

PROJECT	DRAWING	REVISION
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ALAMEDA COUNTY  
HEALTH CARE SERVICES

DAVID J. KEARS AGENCY  
~~XXXXXXXXXXXX~~ Agency Director



470-27th Street, Third Floor  
Oakland, California 94612  
(415) 874-7237

September 21, 1987

Oakland National Engraving, Inc.  
1001 - 42nd Street  
Oakland, CA 94608

Dear Sirs:

This is to confirm that the tank removal at your facility has been completed and that the water monitoring well required by RWQCB guidelines has been installed.

The well should be sampled at least every three (3) months for the first year, to determine if remedial action (purging the area of paint thinner) is necessary.

Please send us copies of the analysis of the samples taken, as well as, Regional Water Quality Control Board, ATTN: Mr. H. Kazemi.

If you have any questions, please call Edgar B. Howell, III, Senior Hazardous Materials Specialist, at 874-7237.

Sincerely,

*Rafat A. Shahid*  
Rafat A. Shahid, Chief,  
Hazardous Materials Division

RAS:mnc

cc: H. Kazemi, RWQCB  
Oakland Fire Dept, Fire Prevention Bureau  
Edgar B. Howell, III  
Dwight Hoenig, DOHS