

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

December 1, 1998
StID # 3684

REMEDIAL ACTION COMPLETION CERTIFICATION

Mr. Dale Klettke
Port of Oakland
530 Water St.
P.O. Box 2064
Oakland CA 94604-2064

RE: Port of Oakland Bld. L615, North Field, 8300 Earhart Rd.,
Oakland CA 94621

Dear Mr. Klettke:

This letter confirms the completion of site investigation and remedial action for the one (1) 3,000 gallon UL gasoline tank 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 tank is greatly appreciated.

Based upon the available information and with provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank releases 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 Barney Chan at (510) 567-6765 if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung
Director, Environmental Health

c: B. Chan, Hazardous Materials Division-files
Chuck Headlee, RWQCB
Mr. Dave Deaner, SWRCB Cleanup Fund
Mr. Leroy Griffin, City of Oakland OES, 505 14th St., Suite
702, Oakland CA 94612

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

December 4, 1998
StID# 3684

Mr. Dale Klettke
Port of Oakland
P.O. Box 2064
Oakland, CA 94604-2064

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

**RE: Fuel Leak Site Case Closure, 8300 Earhart Rd., Oakland
CA 94621**

Dear Mr. Klettke:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with the Health and Safety Code, 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 Health Services, Local Oversight Program (LOP) is required to use this case closure letter. We are also enclosing the case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site.

Site Investigation and Cleanup Summary:

Please be advised that the following conditions exist at the site:

- 210 parts per million (ppm) Total Petroleum Hydrocarbons as gasoline, and 1.4, 3.6, 2.3, 12.1 ppm BTEX, respectively remain in soil at the site.
- 310 parts per billion (ppb) Total Petroleum Hydrocarbons as gasoline, and ND, 0.5, 2.1, 0.5 ppb BTEX, respectively remain in the groundwater at the site.

This site should be included in the City's permit tracking system. Please contact me at (510) 567-6765 if you have any questions.

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

c: Mr. L. Griffin, City of Oakland OES, 505 14th St., Suite
702, Oakland CA 94612

B. Chan, files (letter only)

Tr1t8300Earhart

CALIFORNIA REGIONAL WATER
ENVIRONMENTAL
PROTECTION NOV 04 1998 CTIV

CASE CLOSURE SUMMARY QUALITY CONTROL BOARD
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: 10/28/98

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Parkway
Rm 250, Alameda CA 94502
City/State/Zip: Alameda Phone: (510) 567-6700
Responsible staff person: Barney Chan Title: Hazardous Materials Spec.

II. CASE INFORMATION

Site facility name: Port of Oakland Bld L615, North Field
Site facility address: 8300 Earhart Rd., Oakland CA 94621
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 3684
ULR filing date: 6/8/89 SWEEPS No: N/A

Responsible Parties: Addresses: Phone Numbers:
Port of Oakland 530 Water St. (510) 272-1118
Attn: Mr. Dale Klettke P.O. Box 2064
Oakland 94604-2064

| <u>Tank No:</u> | <u>Size in gal.:</u> | <u>Contents:</u> | <u>Closed in-place or removed?:</u> | <u>Date:</u> |
|-----------------|----------------------|------------------|-------------------------------------|--------------|
| 1 | 3,000 | gasoline | Removed | 5/11/89 |

III RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: unknown
Site characterization complete? Yes
Date approved by oversight agency: 7/28/95
Monitoring Wells installed? YES Number: 3
Proper screened interval? Yes, 5-15' and 6-11'
Screen interval based on the minimum required length of cement grout and bentonite for the sanitary seal.

Leaking Underground Fuel Storage Program

Highest GW depth: 1.17' Lowest depth: 6.3

Flow direction: predominantly northwesterly, however has ranged from west to northerly.

Most sensitive current use: aquatic activities and aquatic wildlife in Airport Channel

Are drinking water wells affected? No Aquifer name:

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

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

Report(s) on file? **Yes** Where is report(s)? Alameda County
 1131 Harbor Bay Parkway,
 Room 250, Alameda CA 94502-6577

Treatment and Disposal of Affected Material:

| <u>Material</u> | <u>Amount (include units)</u> | <u>Action (Treatment of Disposal w/destination)</u> | <u>Date</u> |
|-----------------|-----------------------------------|---|-------------|
| Tanks & Piping | 1-3000 gallon gas | Disposed @ H&H Ship San Francisco | 5/11/89 |
| Soil | 50 cubic yards | Aerated and reused on-site | 5/90 |
| Groundwater | 3000 gallon | Disposed @ H&H Ship | 5/11/89 |

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

| <u>Contaminant</u> | <u>Soil (ppm)</u> | | <u>* Water (ppb)</u> | |
|--------------------|----------------------------|---------------------------|----------------------|--------------|
| | ¹ <u>Before</u> | <u>After</u> ² | <u>Before</u> | <u>After</u> |
| TPH (Gas) | 6.8 | 210 | 35,000 | 310 |
| Benzene | 0.26 | 1.4 | 900 | ND |
| Toluene | 0.18 | 3.6 | 2,800 | 0.5 |
| Ethylbenzene | 0.024 | 2.3 | 560 | 2.1 |
| Xylenes | 0.11 | 12.1 | 3,500 | 0.5 |
| Other | TDS | | 6600-10,900 ppm | |

1 from beneath tank at time of removal * grab GW sample
 2 sample taken @8' depth after overexcavation

Comments (Depth of Remediation, etc.):
 see site summary

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? YES

Leaking Underground Fuel Storage Tank Program

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? YES

Does corrective action protect public health for current land use? YES

Site management requirements: NA

Should corrective action be reviewed if land use changes? No

Monitoring wells Decommisioned: No, pending closure

Number Decommisioned: 2 Number Retained: 1

List enforcement actions taken: None

List enforcement actions rescinded: None

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Barney M. Chan Title: Hazardous Materials Specialist

Signature: *Barney M Chan* Date: 9/1/95

Reviewed by

Name: Madhulla Logan Title: Hazardous Materials Specialist

Signature: *Madhulla Logan* Date: 8/18/95

Name: Eva Chu Title: Haz. Mat. Specialist

Signature: *Eva Chu* Date: 8/3/95

VI. RWQCB NOTIFICATION

Date Submitted to RB: 11/4/98 RB Response: *Carol Headlee*

RWQCB Staff Name: *C. Headlee* Title: ~~AWRCE~~ EG Date: 11/6/98

VII. ADDITIONAL COMMENTS, DATA, ETC.

Site Summary for 8300 Earhart Rd., Oakland CA 94621
StID # 3684, Port of Oakland Bld615, North Field

This site is located at the North Field area of the Oakland International Airport. It is slightly south of the Airplane Museum just off Doolittle. To the east lies the Airport Channel and to the west, San Francisco Bay. The ust is believed to have been installed in the 1940's by a tenant.

May 11, 1989- One 3000 gallon metal ust was removed from the site. The contents of the tank, mostly water, was removed by and disposed by H&H Ship Service. Two soil samples, one from each end of the tank, and one grab groundwater sample were taken after the tank removal. Low levels of gas and BTEX were detected in the northeast soil sample only, 6.8 ppm gas, and 0.26, 0.18, 0.024 and 0.11 ppm BTEX respectively. The grab groundwater sample detected 35 mg/l gasoline and 0.9, 2.8, 0.56 and 3.5 mg/l BTEX respectively. The spoils were immediately backfilled into the pit pending these analytical results.

June 21, 1989- Soils from the tank pit were re-excavated to approximately 8' bgs and four floor samples taken. No sidewalls samples taken because of caving-in potential. Only sample S-2 from the NW corner of the pit detected any significant contamination: 210 ppm TPHg, 1.4, 3.6, 2.3 and 12.1 ppm BTEX respectively. Approximately 50 cy of soils was generated from this excavation. This soil was aerated and three discrete samples taken on April 30, 1990 were ND for gasoline and BTEX. The soil was eventually reused on-site.

May 14, 1992- One monitoring well MW-1-5 was installed within ten feet of the tank pit in the assumed downgradient direction, southwest. The soil boring from 5' depth was ND for gas and BTEX. The TDS on the groundwater sample was 8700 mg/l, indicating a non-drinking water aquifer.

Groundwater monitoring was performed for several years with only infrequent hits of gasoline and BTEX. However, due to the uncertainty of groundwater gradient direction, the Port decided to install two additional wells to verify gradient.

January 24, 1994- Two additional monitoring wells, MW-2-5 and MW-3-5 were installed. Soil borings from these wells range from ND to very low. The groundwater gradient was determined to be north-northwesterly, unlike the assumed southwesterly direction. Therefore, MW-3-5 was the downgradient well.

For the past year the gradient has been fairly consistent ranging from west to northerly. The additional wells have been monitored four times and only low to ND concentrations of gasoline and BTEX

have been detected. It appears that the release of gasoline from this tank is limited in both soil and groundwater and that any residual contamination will have no adverse impact to human and environmental health.

Rationale for closure:

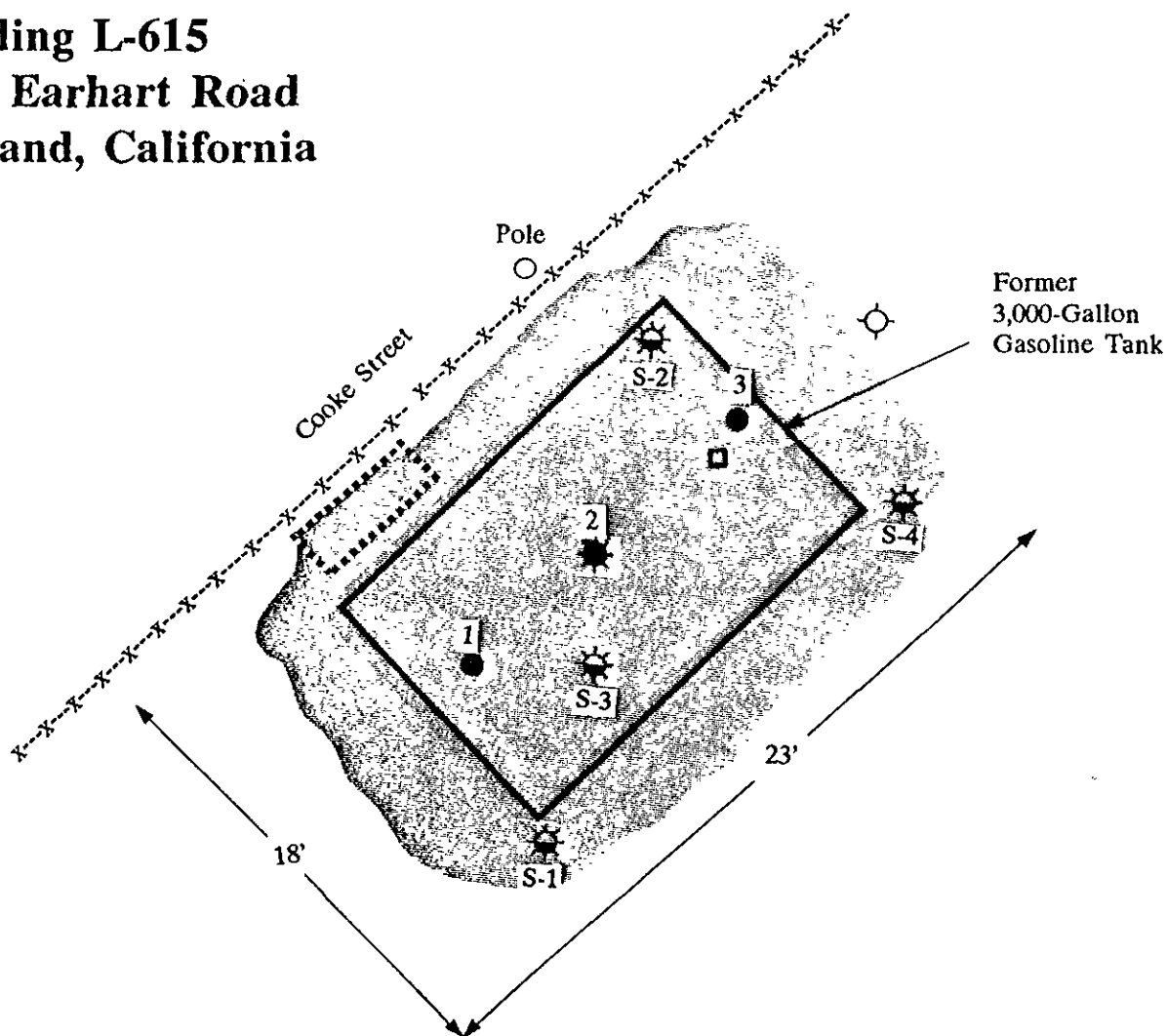
1. TDS has consistently ranged from 6600-11000 ppm, therefore, the shallow groundwater does not meet the Water Board's drinking water requirement.
2. Fairly extensive overexcavation has occurred. Contaminated soils were aerated and reused after sampling indicated ND for all contaminants.
3. Groundwater monitoring indicates very low concentrations of TPHg, T,E and X. No benzene has been detected for four consecutive quarters. The TEX concentrations are well below their respective MCL values.

ssum8300





SAMPLING LOCATIONS

Figure 3

Building L-615
8300 Earhart Road
Oakland, California



Legend:

-  Excavation Area
- 1 ● Location of Soil Sample Collected on 5/11/89 by R.S. Eagan and Company
- 2 ★ Location of Water Sample Collected on 5/11/89 by R.S. Eagan and Company
- S-1 ★ Location of Soil Sample Collected on 6/21/89 by BASELINE
-  Fuel Pump Block
-  Proposed Groundwater Monitoring Well Location
-  Fill Pipe for the Gasoline Tank



Not to Scale

BASELINE

Table 1

**SUMMARY OF ANALYTICAL RESULTS
SOIL AND GROUNDWATER SAMPLING
8300 Earhart Road, Oakland, California
(in mg/kg unless otherwise noted)**

| Sample I.D. | Depth (ft.) | Media | Gasoline | Benzene | Toluene | Xylenes | Ethylbenzene |
|---|-----------------|--------------------|----------|---------|---------|---------|--------------|
| <u>Tank Removal (5/11/89)¹</u> | | | | | | | |
| 1 | not reported | soil | <0.5 | <0.02 | <0.02 | <0.07 | <0.02 |
| 2 | -- | water ² | 35 | 0.9 | 2.8 | 3.5 | 0.56 |
| 3 | not reported | soil | 6.8 | 0.26 | 0.18 | 0.11 | 0.024 |
| <u>Gasoline Tank Pit (6/21/89)³</u> | | | | | | | |
| S-1 | 5 | soil | <10 | <0.005 | 0.050 | 0.12 | 0.022 |
| S-2 | 8 ⁴ | soil | 210 | 1.4 | 3.6 | 12.1 | 2.3 |
| S-3 | 10 ⁴ | soil | trace | 0.076 | <0.005 | 0.71 | 0.58 |
| S-4 | 8 ⁴ | soil | <10 | <0.005 | <0.005 | <0.005 | <0.005 |
| <u>Soil Aeration Pile (6/21/89)³</u> | | | | | | | |
| 1,2,3,4 (composite) | | soil | 140 | NA | NA | NA | NA |
| 5,6,7,8 (composite) | | soil | 240 | NA | NA | NA | NA |
| <u>Soil Aeration Pile (8/30/89)¹</u> | | | | | | | |
| 1,2,3,4,5,6 (composite) | | soil | 4.4 | 0.012 | 1.3 | 0.14 | 0.032 |

¹ Sampled and analyzed by Trace Analysis Laboratory using DHS Method for gasoline and Modified EPA Method 8020 for BTXE (benzene, toluene, xylenes, and ethylbenzene).

² In mg/L (milligrams per liter).

³ Sampled by BASELINE Environmental Consulting and analyzed by Curtis and Tompkins, Ltd. using EPA Methods 8015 and 602/8020 for gasoline and BTXE, respectively.

⁴ The collected samples were moist to wet. Soil aeration pile sampling locations are not depicted for 21 June; locations for 30 August sampling shown in Appendix F.

Notes: For sampling locations in former tank pit, refer to Figure 3.
Laboratory reports are contained in Appendices B and F.
NA = Not Analyzed For

TABLE 1 - SUMMARY OF RESULTS OF GROUND WATER MONITORING AND SAMPLING
 PORT OF OAKLAND, OAKLAND INTERNATIONAL AIRPORT, NORTH FIELD
 8300 EARHART ROAD, OAKLAND, CALIFORNIA

ALISTO PROJECT NO. 10-252

| WELL ID | DATE OF SAMPLING/ MONITORING | CASING ELEVATION (a) (Feet) | DEPTH TO WATER (Feet) | GROUNDWATER ELEVATION (b) (Feet) | TPH-G (ug/l) | B (ug/l) | T (ug/l) | E (ug/l) | X (ug/l) | TDS (mg/l) | LAB |
|----------|---------------------------------|--------------------------------|--------------------------|-------------------------------------|-----------------|-------------|-------------|-------------|-------------|---------------|-----|
| MW-1-5 | 05/18/92 | 8.68 | 4.00 | 4.68 | 60 | ND<0.4 | 0.6 | ND<0.3 | 1.6 | 8700 | -- |
| MW-1-5 | 08/06/92 | 8.68 | 6.26 | 2.42 | ND<50 | ND<0.4 | ND<0.3 | 0.3 | 1.5 | -- | -- |
| MW-1-5 | 11/24/92 | 8.68 | 6.30 | 2.38 | ND<50 | ND<0.4 | ND<0.3 | ND<0.3 | ND<0.4 | -- | -- |
| MW-1-5 | 02/12/93 | 8.68 | 1.17 | 7.51 | ND<50 | ND<0.4 | ND<0.3 | ND<0.3 | ND<0.4 | -- | -- |
| MW-1-5 | 05/17/93 | 8.68 | 3.62 | 5.06 | ND<50 | ND<0.4 | ND<0.3 | ND<0.3 | ND<0.4 | 6600 | -- |
| MW-1-5 | 08/04/93 | 8.68 | 3.61 | 5.07 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | 10900 | -- |
| MW-1-5 | 11/24/93 | 8.68 | 3.65 | 5.03 | ND<50 | 1.7 | 1.2 | ND<0.5 | 0.6 | 10300 | -- |
| MW-1-5 | 03/01/94 | 8.54 | 2.38 | 6.16 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | 7800 | -- |
| MW-1-5 | 05/20/94 | 8.54 | 3.30 | 5.24 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | 9100 | -- |
| MW-1-5 | 08/24/94 | 8.54 | 3.60 | 4.94 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | 9400 | D&M |
| MW-1-5 | 02/24/95 | 8.54 | 2.44 | 6.10 | ND<50 | ND<0.4 | ND<0.3 | ND<0.3 | ND<0.4 | 9100 | CEC |
| MW-2-5 | 03/01/94 | 8.62 | 2.72 | 5.90 | 30 | 0.57 | 1.2 | 9.9 | 2.4 | 6600 | -- |
| MW-2-5 | 05/20/94 | 8.62 | 2.87 | 5.75 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | 10000 | -- |
| MW-2-5 | 08/24/94 | 8.62 | 3.30 | 5.32 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | 7800 | D&M |
| MW-2-5 | 02/24/95 | 8.62 | 2.42 | 6.20 | ND<50 | ND<0.4 | ND<0.3 | ND<0.3 | ND<0.4 | 8900 | CEC |
| MW-3-5 | 03/01/94 | 8.38 | 2.80 | 5.58 | ND<50 | ND<0.5 | ND<0.5 | ND<0.5 | ND<0.5 | 9400 | -- |
| MW-3-5 | 05/20/94 | 8.38 | 3.10 | 5.28 | ND<50 | ND<0.5 | ND<0.5 | 1.6 | 0.72 | 10000 | -- |
| MW-3-5 | 08/24/94 | 8.38 | 3.65 | 4.73 | ND<50 | ND<0.5 | 0.55 | ND<0.5 | ND<0.5 | 6600 | D&M |
| MW-3-5 | 02/24/95 | 8.38 | 2.68 | 5.70 | 310 | ND<0.4 | 0.6 | 2.8 | 0.6 | 6600 | CEC |
| QC-1 (c) | 02/24/95 | 8.38 | -- | -- | 250 | ND<0.4 | 0.5 | 2.1 | 0.5 | -- | CEC |
| QC-2 (d) | 02/24/95 | -- | -- | -- | ND<50 | ND<0.4 | ND<0.3 | ND<0.3 | ND<0.4 | -- | CEC |

ABBREVIATIONS:

TPH-G Total petroleum hydrocarbons as gasoline
 TDS Total dissolved solids
 B Benzene
 T Toluene
 E Ethylbenzene
 X Total xylenes
 ug/l Micrograms per liter
 mg/l Milligrams per liter
 -- Not analyzed/available/applicable
 ND Not detected above reported detection limit
 D&M D&M Laboratories
 CEC Clayton Environmental Consultants

NOTES:

(a) Top of casing elevations surveyed to the nearest 0.01 foot above mean sea level.
 (b) Groundwater elevations in feet above mean sea level.
 (c) Blind duplicate.
 (d) Travel blank.