ALAMEDA COUNTY
HEALTH CARE SERVICES

DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, Assistant Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 3763 - 344 High Street, Oakland 94601

January 20, 1995

Mr. Mark Welling
Gallagher & Burk, Inc
344 High Street
Oakland, CA 94601

Dear Welling:

This letter confirms the completion of site investigation and remedial action for the nine former underground storage tanks (a 10K gallon gasoline, 33K, 24K, 12K, 5K, and 3K gallon ashpalt oil, 5K emulsion oil, 10K diesel/waste oil, and a 200 gallon waste oil tank) removed from the above site in September and November 1990, and in March 1991.

Based upon the available information 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,

Rafat A. Shahid, Director

cc: Edgar B. Howell, Chief, Hazardous Materials Division
Kevin Graves, RWQCB
Mike Harper, SWRCB (with attachment)
files (g&burk2)

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION Date: November 14, 1994

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: **Gallagher & Burk, Inc**
Site facility address: **344 High St,. Oakland, CA 94601**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **3763**
URF filing date: **1/18/91** SWEEPS No: **N/A**

Responsible Parties:	Addresses:	Phone Numbers:
Gallagher & Burk, Inc Attn. Mark Welling	344 High Street Oakland, CA 94601	

Tank No:	Size in gal.:	Contents:	Closed in-place or removed?:	Date:
1	10,000	Gasoline	Removed	9/19/90
2	200	Waste Oil	Removed	9/19/90
3	24,000	Asphalt Oil	Removed	3/17/91
4	3,000	Asphalt Oil	Removed	3/17/91
5	33,000	Asphalt Oil	Removed	Nov 1990
6	12,000	Asphalt Oil	Removed	Nov 1990
7	10,000	Diesel/Waste Oil	Removed	Nov 1990
8	5,000	Asphalt Oil	Removed	Nov 1990
9	5,000	Emulsion Oil	Removed	Nov 1990

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Unknown**
Site characterization complete? **YES**
Date approved by oversight agency: **August 26, 1994**
Monitoring Wells installed? **Yes** Number: **1**
Proper screened interval? **Maybe not, 12.5 to 27.5' bgs**
Highest GW depth below ground surface: **6.37** Lowest depth: **9.44**
Flow direction: **Presumed westerly**
Most sensitive current use: **Estuary**
Are drinking water wells affected? **No** Aquifer name:
Is surface water affected? **No** Nearest affected SW name:
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	9 USTs	H & H Ship Co	9,11/91 & 3/91
Piping			
Free Product	300 gallon product	Refinery Services	3/7/91
	800 gallon rinsate	H & H Ship Co	9/17/90
Soil	40 ton	Gibson Oil & Refinery	7/16/91
	150 & 400 cy	Ogden Environmental, Stockton	1/16/91
	5 cy	Decon Environmental	??
	60 cy	Gallagher/Burke Leona Quarry for use as clean fill.	
Groundwater Barrels	14,400 gallon	Refinery Services	2-3/91

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm) Before	Soil (ppm) After	Water (ppb) Before	Water (ppb) After
TPH (Gas)	ND	ND	ND	100
TPH (Diesel)	ND	ND	ND	ND
Benzene	ND	ND	ND	2.3
Toluene	ND	ND	ND	1.2
Ethylbenzene	ND	ND	ND	ND
Xylenes	.61	ND	1.6	.09
Oil & Grease	2,600	76	ND	ND
Heavy metals Cd Cr Pb Ni Zn			ND .36 .019 .56 .28	ND
Other TDS			9,000 mg/L	
Cl-HC	ND			
Semi-Volatile Cpds	ND			

Comments (Depth of Remediation, etc.):

See comments, section VII, Additional Comments, Data, etc...

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? **YES**
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: **None**
Should corrective action be reviewed if land use changes? **YES**
Monitoring wells Decommissioned: **None, pending site closure**
Number Decommissioned: **0** Number Retained: **1**
List enforcement actions taken: **None**

List enforcement actions rescinded: **NA**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Eva Chu Title: Haz Mat Specialist

Signature: [signature] Date: 11/23/94

Reviewed by

Name: Barney Chan Title: Haz Mat Specialist

Signature: [signature] Date: 11/23/94

Name: Madhulla Logan Title: Haz Mat Specialist

Signature: [signature] Date: 11/21/94

VI. RWQCB NOTIFICATION

Date Submitted to RB: 11/28/94 RB Response: Approved

RWQCB Staff Name: Kevin Graves Title: AWRCE

Signature: [signature] Date: 1/19/95

VII. ADDITIONAL COMMENTS, DATA, ETC.

In September 1990, two USTs (10K gas, 200 waste oil) were removed. Groundwater was seeping into the gasoline pit at a depth of 6' bgs. Sidewall samples collected did not detect TPH-G or BTEX in the gasoline pit. A groundwater grab sample exhibited only 1.6 ppb xylenes. A soil sample from the waste oil pit did not detect TPH-G, D, BTEX, TOG, Cl-HC, or the 5 metals (Cd, Cr, Pb, Ni, Zn) above background levels. The excavated soil from each excavation was stockpiled separately, and three discrete samples were collected from each of the stockpiles. Total oil and grease of up to 1,500 ppm was detected from the used waste oil pile. This soil was taken to Liquid Waste Landfill for disposal. No petroleum hydrocarbons were detected from the gasoline pile. No additional investigations were required for these USTs.

Five USTs (3 asphalt, 1 emulsion oil and one diesel/waste oil tanks) were removed in November 1990. Soil collected from the excavation exhibited up to 2,600 ppm non-polar OG, and 3,500 ppm TOG. The areas with TOG > 100 ppm were overexcavated and subsequent soil analysis did not detect any non polar TOG. No analysis for TPH-G, D, Cl-HC, or semi-volatile compounds, or metals were run at this time. Additional investigations were later performed, in March 1993, when two soil borings were advanced in the vicinity of the former diesel/waste oil tank pit. Soil collected from approximately 6 to 6.5' depth in each boring did not detect any of the above analytes sought. A groundwater grab sample from the boring contained only 1.4 ppb benzene and ND for gasoline and diesel. Approximately 150 cy of stockpiled soil was taken to Ogden Environmental in Stockton for disposal.

In March 1991 another two USTs (3K and 24K asphalt oil) were removed. Soil samples collected from the 24K UST pit exhibited up to 210 ppm TOG by method 5520 C/F. This area was overexcavated, leaving behind 17 ppm TOG. Approximately 13,000 gallons of oily water was pumped from the tank pits and recycled at Refinery Services.

A groundwater monitoring well was installed between the tank pit and the Tidal Canal to evaluate water quality beneath the site. Although the well does not appear to be properly screened, any significant contamination to groundwater should have been detected. The majority of the contamination was asphalt oil, which is very immobile.

Groundwater was sampled for four quarters (from July 1991 to August 1992) and analyzed for TOG and the 5 metals only. TOG was not detected in any of these sampling events, and metals were detected only in November 1991.

Groundwater sampling continued another four quarter (from March 1993 to February 1994) and was analyzed for TPH-G, TPH-D, and BTEX. TPH-G has been detected in water at a concentration of approximately 100 ppb. Benzene concentration ranging from 0.5 to 2.3 ppb has been detected. Total dissolved solids in groundwater exceeds 8,500 mg/L, therefore MCLs may not be appropriate cleanup levels.

It appears that with source removal (UST and contaminated soil), the impact to groundwater quality from the fuel release is minimal. Residual hydrocarbons in groundwater will eventually volatilize or biodegrade. Groundwater beneath this site is not of drinking water quality due to its high total dissolved solids. Impact to marine waters, the SF Bay, is also minimal.

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