

Affidavit of the Custodian of Records

Plaintiff:
Defendant:

Records requested from: **ALAMEDA COUNTY DEPT. OF ENVIRONMENTAL HEALTH,**

Records requested by: **Travelers Insurance**

Port of Oakland 2700 7th St. OAKLAND

I am the duly authorized custodian of records of the above named and certify that the accompanying records are copies of the complete records maintained in the regular course and scope of business of my employer and constitute all the records requested. Further, I certify that the information contained in said records was entered by a person(s) having actual knowledge thereof at the time or soon after the occurrence of the events or incidents which they are intended to convey.

If any records have been omitted please describe/explain below:

I am the duly authorized custodian of records of the above named and certify that I have no records on the patient/employee/subject in this request. Please explain if you have no records:

I have no X-Ray Films.

I have no Billing Records.

I hereby declare under penalty of perjury that the foregoing is true and correct.

JAN 26 2001

Date: 01-26-01

Executed at: ALAMEDA
City

Farlene Coleman-Ali
Signature of Declarant

FARLENE COLEMAN-ALI
Print Declarant's Name



Order #: 00KC2850-01

Attorney's Diversified Services

3640 GRAND AVENUE, STE 206, OAKLAND, CA. 94610, Phone (510) 835-9176, Fax (510) 835-0510

TRANSMIT REPORT

2001,01-16 12:14
510 337 9335
ALAMEDA CO EHS HAZ-OPS

COM No.	REMOTE STATION	START TIME	DURATION	PAGES	RESULT	USER ID	REMARKS
792	714 671 8522	01-16 12:13	01'02	03/03	OK		

7499402046

1/19/01
 TO EARLENE:
 Mr. James Barnes
 come in to look at
 the file. He will arrange for
 a copy service to come in &
 copy part of the file. He placed
 yellow sticky notes to the documents
 he wants copied.
 Can you hold this file
 for him. He will
 call you to the
 schedule copy service.

John

ALAMEDA COUNTY
 ENVIRONMENTAL HEALTH
 1131 HARBOR BAY PARKWAY, SUITE 250
 ALAMEDA, CA 94502
 Phone: (510) 567-6809
 Fax: (510) 337-9335

F A X
 Thanks Susan

TO: Travelers Property Casualty/James Barnes

FROM: Earlene Coleman-Ali/Environmental Health

SUBJECT: File Review

This is to confirm your appointment on January 19, 2001 at 9:00 am. Please bring your business card as a form of identification. File Search is from 9:00 am to 12:00 am. There will be a break from 10:30 am to 10:45 am; at that time you will be asked to leave the room. Files Search will resume at 10:45 am. Please be prompt, appointments more than 15 minuets late, that have not called, will be rescheduled.

Thank you.

ALAMEDA COUNTY
ENVIRONMENTAL HEALTH
1131 HARBOR BAY PARKWAY, SUITE 250
ALAMEDA, CA 94502
Phone: (510) 567-6809
Fax: (510) 337-9335

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Thank you.



Special Liability Coverage Unit

21688 Gateway Center Drive
Suite 120
Diamond Bar, CA 91765
FAX 909 612-3366

January 8, 2001

JAN 08 2001

County of Alameda
Hazardous Materials Division
Oakland, California

Attention: Earlene Coleman Ali

5801 (LOP) L#

RE: 2700 7TH STREET
PORT OF OAKLAND, CALIFORNIA

Dear Ms. Ali,

I am conducting an insurance coverage investigation regarding the above referenced site.
I would like to review your agency file on this site.

Please contact me at (909)-612-3363 or Fax (909)-612-3366 to set an appointment for a
file review.

Thank you for your assistance.

Sincerely,

James Barnes
James Barnes

Investigator
Travelers Property Casualty

jb:hsc

Travelers Property Casualty
21688 Gateway Center Drive, Suite 120
Diamond Bar, CA 91765
Tel # 909 612-3364
FAX # 909-612-3366



Fax

To: County of Alameda	From: James Barnes
Fax: 510-337-9335	Pages: 2
Phone:	Date: 01-08-2001
Re: Jim Barnes	CC:

Urgent For Review Please Comment Please Reply Please

● **Comments:** Hazardous Materials Division

Attention: Earlene Coleman Ali

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, DIRECTOR

STID 5801

July 10, 1996

Port of Oakland
530 Water Street,
Oakland, CA 94607
Attn: John Prah

DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6777

RE: 2700 7TH STREET, OAKLAND, CA 94607

Dear Mr. Prah,

This office recently completed a review of the case file for the above referenced Oakland site up to and including the Innovative Technical Solutions, Inc. (ITSI) "Workplan for Soil and Water Investigation" dated June 17, 1996.

This work plan is approved. Please notify this office a minimum of 48 hours before commencing field operations.

Please call me directly at 510/567-6880 should you have any questions.

Sincerely,

Dale Klettke, CHMM
Hazardous Materials Specialist

c: Tom Peacock, LOP Manager--files
Jeffery D. Hess, c/o ITSI, 1330 Broadway, Suite 1625, Oakland, CA 94612
5801wpok.swi

bc



PORT OF OAKLAND

ENVIRONMENTAL
PROTECTION
96 JUN 20 PM 1:40

June 18, 1996

Mr. Dale Klettke
Hazardous Materials Specialist
Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

**SUBJECT: SOIL AND WATER INVESTIGATION WORKPLAN
UST SITE AT 2700 SEVENTH STREET
OAKLAND, CALIFORNIA
STID #5801**

Dear Mr. Klettke:

As you requested in your March 19, 1996 letter, the Port of Oakland through their consultant, Innovative Technical Solutions, Inc. (ITSI), herein submit a work plan for a soil and water investigation at a site identified as 2700 Seventh Street, also known as STID #5801. ITSI's investigation approach should adequately characterize the area for any remaining petroleum product.

If you have any questions about the work proposed, please call me at 272-1373.

Sincerely,

John Prall, R.G.

Associate Environmental Scientist

Enclosure

cc: Neil Werner

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, DIRECTOR

STID 5801

DEPARTMENT OF ENVIRONMENTAL HEALTH

1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6777

March 19, 1996

Port of Oakland
530 Water Street,
Oakland, CA 94607
Attn: John Prah

RE: 2700 7TH STREET, OAKLAND, CA 94607

Dear Mr. Prah,

The above referenced site was transferred into the Local Oversight Program on December 6, 1995. However, the enclosed "Notice of Requirement to Reimburse" (NOR) was not sent to your attention at that time. I apologize for any inconvenience that the delay in receiving this document may have caused you.

As referenced in the Baseline Environmental Consulting "Report on Underground Tank Removal and Remedial Activities" dated March 1989, 220 mg/kg of an unspecified petroleum hydrocarbon was detected in confirmation soil sample "South End" (SE). This sample was collected in the native soil in the southern wall of the tank excavation, after removal of approximately 35 cubic yards of soil. It is not clear in the March 1989 Baseline report whether the additional excavation was performed in the vicinity of previous soil sample TA-1 which was collected by Aqua Science Engineers during November 1988. Soil sample TA-1 was analyzed to contain 3,800 ppm-TPHg and 2,600 ppm-TPHd, 1.1 ppm-benzene, 7.4 ppm-toluene, 2.5 ppm-ethyl benzene and 116 ppm-total xylenes.

The extent of petroleum hydrocarbon contamination is not sufficiently defined. In order to obtain closure from the Regional Water Quality Control Board (RWQCB), additional information which documents that the shallow groundwater underlying the site has not been degraded by the unauthorized release is required.

Therefore, pursuant to provisions of Article 11, Title 23, California Code of Regulations you are required to perform a soil and water investigation (SWI) to define the extent of both soil and groundwater contamination. In order to pursue the SWI in a more cost-effective fashion, this office has suggested that you first employ rapid site assessment tools (e.g. CPT, Geo Probe, Hydropunch, etc.) to qualitatively assess impacts and to define the extent of any contaminant plume. At this time, it **does not** appear that permanent monitoring wells will be required.

To facilitate this task, a SWI work plan must be submitted for review. **This work plan is due within 90 days of the date of this letter or no later than June 18, 1996.**

John Prahl
RE: 2700 7th Street, Oakland
March 19, 1996
Page 2 of 2

As you are already probably aware, water quality objectives with specific application to your site can be found in the State Water Resources Control Board (SWRCB) "Water Quality Control Plan for Enclosed Bays and Estuaries of California 93-5WQ" dated May 1993.

If you have any questions, please feel free to call me directly at (510)567-6880.

Sincerely,

A handwritten signature in cursive script that reads "Dale Klettke". The signature is written in black ink and has a long horizontal flourish extending to the right.

Dale Klettke, CHMM
Hazardous Materials Specialist

enclosure

c: Tom Peacock, LOP Manager--files

5801nor.dkt

Transfer of Eligible Local Oversight Case

 STID 5801 Date of input/By: 12/6/NORMA

 Date: 12/6/95 From: DAVE KLETTE
 Site Name: PORT OF OAKLAND
 Address: 2700 - 7TH ST City: OAKLAND Zip: 94607

To be eligible for LOP, case must meet 3 qualifications:

1. N Tanks Removed? # of removed? 1 Date removed: 11/1988
2. N Samples received? Contamination level: 3800 ppm
 Type of test TPH AS GASOLINE
 Contamination should be over 100 ppm TPH to qualify for LOP
3. N Petroleum? Circle Type(s): • Avgas • leaded • unleaded • fuel oil • jet
 • diesel • waste oil • kerosene • solvents

Procedure to follow should your site meet all the above qualifications:

1.
 - a. Close the deposit refund case.
 - b. Account for **ALL** time you have spent on the case.
 - c. Turn in account sheet to Leslie.
 If there are funds still remaining it is still better to transfer the case to LOP as the rate for LOP allows more overhead. **DO NOT** attempt to continue to oversee the site simply because there are funds remaining!

Remaining DepRef \$'s: _____

 DepRef Case Closed with Candyce/Leslie? **Y N** (If no, explain why below.)

2. Submit the completed **A** and **B** permit application forms to **NORMA**.
3. Give the entire case to the proper LOP staff.

(FO) 451-5916

PORT OF OAKLAND



March 13, 1989

BOARD OF PORT COMMISSIONERS
CITY OF OAKLAND

Mr. Rafat A. Shahid
Chief, Hazardous Materials Division
Alameda County Health Care Services Agency
80 Swan Way, Room 200
Oakland, CA 94621

DOUGLAS J. HIGGINS	President
R. ZACHARY WASSERMAN	1st Vice President
CAROLE WARD ALLEN	2nd Vice President
RONALD W. BRADY	Commissioner
G. WILLIAM HUNTER	Commissioner
PATRICIA PINEDA	Commissioner
THOMAS J. SWEENEY	Commissioner
WALTER A. ABERNATHY	Executive Director

Dear Mr. Shahid:

RE: UNDERGROUND TANK CLOSURE AND REMEDIAL ACTIVITIES,
2700 7TH STREET

Pursuant to your letter dated January 11, 1989, the Port retained Baseline Environmental Consulting and they have produced the attached report. Please note that the consultant has recommended not to install groundwater monitoring wells as listed in step A.2. of the January 11, 1989, letter.

The \$500.00 deposit requested by the County was prepared on February 24, 1989, check number 71902.

Therefore, the Port has complied with the County's requirements by addressing all of the items requested in the January 11, 1989 letter.

If you have any questions regarding this report please contact Michele Heffes of my staff at 839-2656.

Sincerely,

Michael Sotak
Environmental Division

MS/MH/jb

cc: Edgar B. Howell
 Mary Jo Meyers-Barnes
 Lisa McCann, RWQCB
 Gil Jensen, District Attorney, Alameda County Consumer
 and Environmental Protection
 Howard Hatayama, DOHS
 Yane Nordhav, Baseline Environmental Consulting
 Charles R. Roberts
 William E. Vandenberg
 John Stewart

PORT OF OAKLAND



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William E. Vandenberg
John Stewart

66 Jack London Square • P.O. Box 2064 • Oakland, California 94604-2064 • Phone (415) 444-3188
Cable Address PORTOFOAK, Oakland - Telex 336-334

MEMBER OF THE AMERICAN ASSOCIATION OF PORT AUTHORITIES, INC., THE AIRPORT OPERATORS COUNCIL INTERNATIONAL, INC.
and THE INTERNATIONAL ASSOCIATION OF PORTS AND HARBORS

DEPT. OF ENVIRONMENTAL HEALTH
515-89

ALAMEDA COUNTY
HEALTH CARE SERVICES

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



Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621

Certified Mailer #: P 833 981 219

Telephone Number: (415) 271-4320

January 11, 1989

Port of Oakland
66 Jack London Square
Oakland, CA 94607
Attn: Ms. Michele Heffes

RE: Underground tank closure, Port of Oakland, 2700 7th St.

Dear Ms. Heffes:

We have received the report of analytical results from the soil sampling that was performed at your facility, Port of Oakland, 2700 7th St., Oakland, CA, during the removal of the tank on November 28, 1988. The samples were analyzed for total petroleum hydrocarbons (TPH), and BTXE, and were found to contain up to 3800 parts per million (ppm) TPH, and 1.1, 7.4, 2.5, and 116 ppm benzene, toluene, ethyl benzene, and total xylenes respectively. You are required to excavate all soil contaminated above 1000ppm, and dispose of as Hazardous Waste to an approved disposal facility, with manifests retained, and copies sent to our department.

A. You will need to obtain professional services from a reputable engineering/consulting firm.

The responsibility of your consultant will be to establish the extent of contamination and provide professional judgment/recommendations, based on scientific data, of the necessary remedial actions needed. A plan and time schedule for investigation should be submitted to this agency within thirty (30) days.

The following is a summary of the steps your consultant should take to evaluate the problem.

Preliminary Assessment

1. Determination of the extent and magnitude of soil contamination.

- results of initial work done
- proposal for the delineation of the site's contamination
- site history

Site Investigation

2. Definition of the horizontal and vertical extent of the ground water plume/contamination, both on- and off-site.

- site geology and hydrogeology
- definition of lateral and vertical extent of contamination including soil and groundwater

- ground water monitoring wells are required to define the horizontal and vertical extent of groundwater contamination.
- construction of monitoring and extraction wells should be consistent with Guideline of the RWQCB.
- monitoring wells should be sampled for free product, dissolved constituents and water levels. In no case should the monitoring be less frequent than quarterly.
- definition of groundwater contamination should be presented in plume maps of each constituent.

3. Interpretation of Hydrogeologic Data

- water levels should be monitored on all wells quarterly. Water level records, contour maps and gradient determinations should be submitted with other sampling results.
- the geologic characteristics of the aquifer must be adequately described.

4. Determination of the Potential Short- and Long-Term Impacts of the Pollution Plume on the Beneficial Uses of Ground and Surface Water.

- beneficial uses include municipal water supply, ground water recharge, fresh water habitat, wildlife habitat, contact and noncontact recreation, and fish migration.

Remediation Action

5. Development of Final Remediation Plan

In addition to the above investigative work, a remediation plan for the site should be developed. The plan must include a time schedule and address the following items:

- plans for the removal of soil contaminants and recovery of fuel product and removal of dissolved constituents from the groundwater, if necessary.
- all free product must be removed by an appropriate remediation system.
- evaluation of mitigation alternatives
- the design of remedial action systems should be based on appropriate review of hydrogeologic and water quality data.
- the overall effectiveness of the remedial program should be verified by an appropriate monitoring program.

Port of Oakland
January 11, 1989
Page 3 of 3

B. Submit \$500.00 deposit for additional Health Agency costs. The information requested must be submitted to this office within thirty (30) days, on or before February 14, 1989.

Should you have any questions concerning this matter, please contact Ms. Mary Jo Meyers-Barnes, Hazardous Materials Specialist at 271-4320.

Sincerely,



Rafat A. Shahid, Chief
Hazardous Materials Division

RAS:MJM-B

Enclosure

cc: Yane Nordhav, Baseline Environmental Consulting
Gil Jensen, District Attorney, Alameda County Consumer and
Environmental Protection
Lisa McCann, RWQCB
Dwight Hoenig, DOHS
Mary Jo Meyers-Barnes, HazMat
Files

SENDER: Complete Items 1 and 2 when additional services are desired, and complete Items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address. 2. Restricted Delivery
 ↑(Extra charge)↑ ↑(Extra charge)↑

3. Article Addressed to: (2700-142 SA) Ms. Michele Heffes Port of Oakland 66 JACK LONDON SQUARE Oakland, CA 94607	4. Article Number P833 981 219
	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail
Always obtain signature of addressee or agent and DATE DELIVERED.	
5. Signature - Addressee X <i>[Signature]</i>	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X	
7. Date of Delivery 1/18/89	

PS Form 3811, Mar. 1987 U.S.G.P.O. 1987-178-266 DOMESTIC RETURN RECEIPT

P 833 981 219

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL

2700 (See Reverse)

Sent to MICHELE HEFFES	
Street and No. 66 Jack London Sq.	
P.O. State and ZIP Code Oakland, CA 94607	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	

PS Form 3800, June 1985

ALAMEDA COUNTY
HEALTH CARE SERVICES

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



Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621

Certified Mailer #: P 833 981 219

Telephone Number:(415) 271-4320

January 11, 1989

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Port of Oakland
January 11, 1989
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Sincerely,

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Rafat A. Shahid, Chief
Hazardous Materials Division

RAS:MJM-B

Enclosure

cc: Yane Nordhav, Baseline Environmental Consulting
Gil Jensen, District Attorney, Alameda County Consumer and
Environmental Protection
Lisa McCann, RWQCB
Dwight Hoenig, DOHS
Mary Jo Meyers-Barnes, HazMat
Files

part of Oakland

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input type="checkbox"/> NO <u>2</u>	HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input type="checkbox"/> NO	FOR LOCAL AGENCY USE ONLY HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25100.7 OF THE HEALTH AND SAFETY CODE
--	---	---

REPORT DATE 1 2 2 7 8 8 M M D D Y Y	CASE #	SIGNED	DATE
---	--------	--------	------

REPORTED BY	NAME OF INDIVIDUAL FILING REPORT YANE MORDINA	PHONE (415) 763-7037	SIGNATURE Yane Mordina
	REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> OTHER	COMPANY OR AGENCY NAME BASELINE	
	ADDRESS 315 Washington Street Oakland CA 94607		

RESPONSIBLE PARTY	NAME Part of Oakland	<input type="checkbox"/> UNKNOWN	CONTACT PERSON Michele Heffes	PHONE (415) 839-2282
	ADDRESS 46 Jack London Square Oakland CA			

SITE LOCATION	FACILITY NAME (IF APPLICABLE) C-103 Blvd	OPERATOR UNKNOWN	PHONE ()
	ADDRESS 2700 7th Street Oakland Alameda		
	CROSS STREET	TYPE OF AREA <input type="checkbox"/> COMMERCIAL <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> RURAL <input type="checkbox"/> RESIDENTIAL <input checked="" type="checkbox"/> OTHER Part Activities	TYPE OF BUSINESS <input type="checkbox"/> RETAIL FUEL STATION <input checked="" type="checkbox"/> FARM <input checked="" type="checkbox"/> OTHER Fuel Station

IMPLEMENTING AGENCIES	LOCAL AGENCY Alameda County	AGENCY NAME	CONTACT PERSON Mary Jo Meyers	PHONE (415) 271-4320
	REGIONAL BOARD San Francisco Bay			PHONE (415) 464-1255

SUBSTANCES INVOLVED	(1) NAME gasoline	QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN
	(2) NAME Diesel	QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN

DISCOVERY/ABATEMENT	DATE DISCOVERED 1 2 2 3 8 8 M M D D Y Y	HOW DISCOVERED <input type="checkbox"/> TANK TEST <input checked="" type="checkbox"/> TANK REMOVAL <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS
	DATE DISCHARGE BEGAN M M D D Y Y	METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> REPLACE TANK <input checked="" type="checkbox"/> CLOSE TANK <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> CHANGE PROCEDURE
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 1 1 2 8 8 8 M M D D Y Y	OTHER

SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER	TANKS ONLY/CAPACITY 15,000 GAL.	MATERIAL <input type="checkbox"/> FIBERGLASS <input checked="" type="checkbox"/> STEEL <input type="checkbox"/> OTHER	CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> SPILL <input type="checkbox"/> OTHER
		AGE 23 YRS		

CASE TYPE	CHECK ONE ONLY <input checked="" type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)
-----------	--

CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM) <input type="checkbox"/> CLEANUP IN PROGRESS <input type="checkbox"/> SIGNED OFF (CLEANUP COMPLETED OR UNNECESSARY) <input checked="" type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> NO FUNDS AVAILABLE TO PROCEED <input type="checkbox"/> EVALUATING CLEANUP ALTERNATIVES
----------------	--

REMEDIAL ACTION	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> CAP SITE (CD) <input checked="" type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input checked="" type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> OTHER (OT)
-----------------	--

COMMENTS
Tank not in use for about 10 years.
Laboratory results to follow.

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
 DEPARTMENT OF ENVIRONMENTAL HEALTH
 HAZARDOUS MATERIALS DIVISION

470 - 27TH ST., RM. 322
 OAKLAND, CA 94612
 PHONE NO. 415/874-7237

ACCEPTED
 DEPARTMENT OF ENVIRONMENTAL HEALTH
 470 - 27th Street, Third Floor
 Oakland, CA 94612
 Telephone: (415) 874-7237

These plans have been reviewed and found to be acceptable if they meet the requirements of State and local health laws. Changes to your plans indicated by this Department are to ensure compliance with State and local laws. The project proposed herein is now released for issuance of any required building permits for construction.

One copy of these accepted plans must be on the job and available to all contractors and craftsmen involved with the removal.
 Any change or alterations of these plans and specifications must be submitted to this Department and to the fire and Building Inspection Department to determine if such changes meet the requirements of State and local laws. Notify this Department at least 48 hours prior to the following required inspections.

- _____ Removal of Tank and Piping
- _____ Sampling
- _____ Final Inspection

Issuance of a permit to operate is dependent on compliance with accepted plans and all applicable laws and regulations.
 THERE IS A FINANCIAL PENALTY FOR VIOLATIONS.
 OBTAIN THESE REGULATIONS.

Project # 4528753
 Fee Paid \$300.00
 Date 11/17/88

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

1. Business Name PORT OF OAKLAND
 Business Owner PORT OF OAKLAND
2. Site Address 2700 SEVENTH STREET
 City OAKLAND Zip 94607 Phone 444-3188
3. Mailing Address 66 JACK LONDON SQUARE
 City OAKLAND Zip 94607 Phone 444-3188
4. Land Owner PORT OF OAKLAND
 Address 66 JACK LONDON SQUARE City, State OAKLAND, CA Zip 94607
5. EPA I.D. No. LAC000074045
6. Contractor EVANS BROTHERS
 Address 1624 PORTOLA AVE.
 City LIVERMORE CA Phone 443-0225
 License Type A ID# 443018
7. Other (Specify) AQUA SCIENCE ENG (TANK REMOVAL SUB)
 Address 2500 OLD BROW CANYON RD #121
 City SAN RAMON CA Phone 820-9391

8. Contact Person for Investigation

Name Greg Burg Title Project Engineer
Phone (415) 820-9391

9. Total No. of Tanks at facility 1

10. Have permit applications for all tanks been submitted to this office? Yes No

11. State Registered Hazardous Waste Transporters/Facilities

a) Product/Waste Transporter

Name Refinery Service EPA I.D. No. CAD083166728
Address 13331 North Highway 33
City Patterson State CA Zip 95363

b) Rinsate Transporter

Name Refinery Service EPA I.D. No. CAD083166728
Address 13331 North Highway 33
City Patterson State CA Zip 95363

c) Tank Transporter

Name N/A EPA I.D. No. _____
Address _____
City _____ State _____ Zip _____

d) Contaminated Soil Transporter

Name Jim Chison EPA I.D. No. CAD98058487
Address Box 755
City Riverdale State CA Zip 93656

12. Sample Collector

Name Gregory P. Burg
Company AQUA SCIENCE ENG.
Address 2500 OLD CROW CANYON RD #121
City SAN RAMON State CA Zip 94583 Phone 820-9391

13. Sampling Information for each tank or area

Tank or Area		Material sampled	Location & Depth
Capacity <i>10,000 (R) 15,000</i>	Historic Contents (past 5 years) <i>DIESEL (NOT USED)</i>	<i>Soil & ground water present</i>	<i>2' burial 1-2' below full $\frac{1}{3}$ opposite end of tank</i>

14. Have tanks or pipes leaked in the past? Yes [] No []

If yes, describe. UNKNOWN

15. NFPA methods used for rendering tank inert? Yes [] No []

If yes, describe. TANK WILL BE PURGED WITH 2.5 lbs of dry ice per 100 gallons of volume prior to cutting the tank & cleaning on site. certified lab result of rinsate will be submitted prior to tank removal.

16. Laboratories

Name CURTIS TOMPKINS

Address 2323 5th Street

City Berkeley State CA zip 94710

State Certification No. 159

* Explosion proof combustible gas meter required on site

17. Chemical Methods to be used for Analyzing Samples

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Number
SOIL WATER TPH - diesel BTX+E	8015 (Modified) 8015 (Modified) some other	EPA 3550 EPA 3550 8075 8020

18. Site Safety Plan submitted? Yes No

19. Workman's Compensation: Yes No

Copy of Certificate enclosed? Yes No

Name of Insurer _____

20. Plot Plan submitted? Yes No

21. Deposit enclosed? Yes No

22. Please forward to this office the following information within 60 days after receipt of sample results.

- a) Chain of Custody Sheets
- b) Original Signed Laboratory Reports
- c) TSD to Generator copies of wastes shipped and received
- d) Attachment A summarizing laboratory results

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true. I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I will notify the Department of Environmental Health at least two (2) working days (48 hours) in advance to schedule any required inspections. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Signature of Contractor

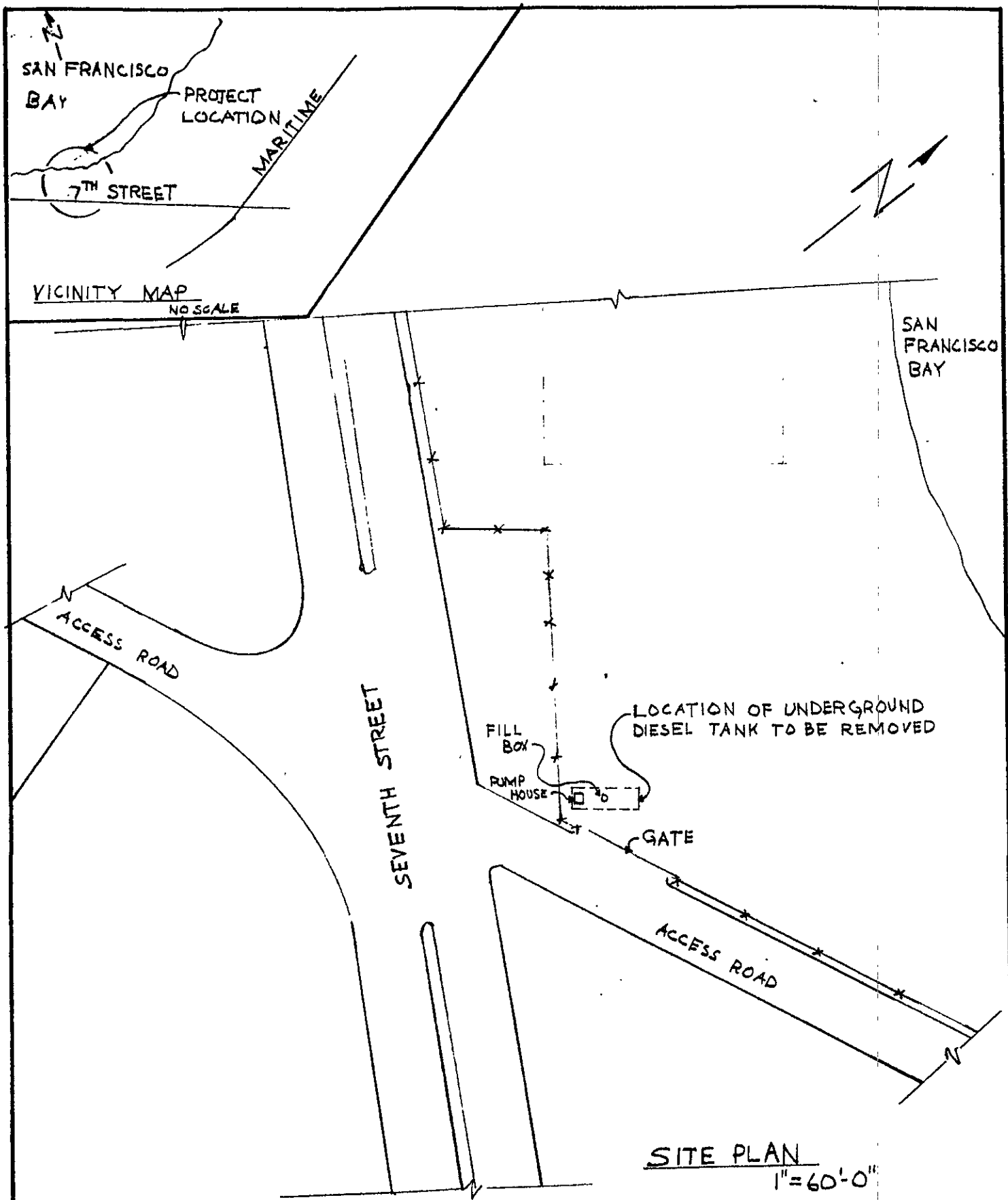
Name (please type) Gregory P. Burg
Signature Gregory P. Burg
Date 11/10/88

Signature of Site Owner or Operator

Name (please type) JOHN STEWART
Signature John Stewart
Date 11/16/88

NOTES:

1. Any changes in this document must be approved by this Department.
2. Any leaks discovered must be submitted to this office on an underground storage tank unauthorized leak/contamination site report form within 5 days of its discovery.
3. Three (3) copies of this plan must be submitted to this Department. One copy must be at the construction site at all times.
4. A copy of your approved plan must be sent to the landowner.



ATTACHMENT A : SITE PLAN

TANK REMOVAL AT SEVENTH STREET TERMINAL
PORT OF OAKLAND
2700 SEVENTH STREET
OAKLAND, CA 94607

AQUA SCIENCE ENGINEERS SITE SAFETY PLAN

A. GENERAL INFORMATION

Site:

Location: SEE SITE MAP ENCLOSED

Plan Prepared By: AQUA SCIENCE ENG.

Date: 10-24-88

Plan Approved By:

Date:

Objectives: TANK REMOVAL, DISPOSAL AND SOIL SAMPLE COLLECTION

Proposed Date of Investigation: November 22, 1988

Background Review: Complete:

Preliminary:

Documentation/Summary:

Overall Hazard:

Serious:

Moderate:

Low: X Unknown:

B. SITE/WASTE CHARACTERISTICS

Waste Type(s): Liquid: Solid: Sludge: Gas:

Characteristic(s): N/A

Facility Description:

Status: Active: Inactive: X Unknown:

History: (agency action, complaints, injuries, etc.)

N/A

C. HAZARD EVALUATION

Parameter: N/A

Special Precautions and Comments:

1. USE SAFETY EQUIPMENT, MASK RESPIRATOR EQUIPED WITH NIOSH APPROVED G-21 CARTRIDGE FOR ORGANIC VAPORS, AS NECESSARY.
2. USE NIOSH APPROVED RUBBER GLOVES FOR SOIL SAMPLING.
3. HAVE DRY CHEMICAL MODEL PA-200 ABC FIRE EXTINGUISHER.
4. HAVE 100 LBS. SOLID-SORB AVAILABLE FOR POTENTIAL SPILLAGE.

D. SITE SAFETY WORK PLAN

Perimeter Establishment: N/A Map/Sketch Attached: YES

Site Secured: FENCED YARD AND BARRICADES

Personal Protection:

Level of Protection: A X B X C X D

Modifications: NONE

Surveillance Equipment and Materials:

Instrument: GAS-TECH Action Level: 20% LEL

Site Entry Procedures: BY OWNER

Decontamination Procedures:

Personal: N/A

Equipment: N/A

First Aid: KIT AVAILABLE ON TRUCK

Work Limitations (time of day, weather, heat/cold stress): WORK TO PROCEED BETWEEN 7 AM AND 3:30 PM.

Investigation-Derived Material Disposal:

E. EMERGENCY INFORMATION

Local Resources:

Ambulance: 911

Hospital Emergency Room: 428-3000

Poison Control Center: 911

Police: 911

Fire Department: 911

Explosives Unit: 652-4575

Agency Contact: ALAMEDA COUNTY HEALTH CARE SERVICES - DEPT.
ENVIRONMENTAL HEALTH - 271-4320

Site Resources:

Water Supply: Across street

Telephone: 444-3188

Radio: TERRY CARTER - 820-9391

Other: N/A

Emergency Contacts: ASE

Name: WILLIAM RUSK

Phone: 820-9391

Emergency Routes: Seventh street, left on Market street, right on 52nd street

Hospital: EAST BAY CHILDRENS HOSPITAL
747 52nd Street

AGORD. CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)

11-9-88

PRODUCER

GLEN HANSEN INSURANCE BROKERS, INC.
313 LENNON LANE, SUITE 100
WALNUT CREEK, CALIFORNIA 94598

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW

COMPANIES AFFORDING COVERAGE

CODE SUB-CODE

INSURED

AQUA SCIENCE ENGINEERS
P.O. BOX 535
SAN RAMON, CALIFORNIA 94583

- COMPANY LETTER **A**
- COMPANY LETTER **B**
- COMPANY LETTER **C**
- COMPANY LETTER **D**
- COMPANY LETTER **E**

VALLEY FORGE INSURANCE CO.
TRANSPORTATION INSURANCE CO.
CNA CASUALTY OF CALIFORNIA

RECEIVED
NOV 14 1988
AQUA SCIENCE ENG.

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	ALL LIMITS IN THOUSANDS	
	GENERAL LIABILITY				GENERAL AGGREGATE	\$ 500
A X	COMMERCIAL GENERAL LIABILITY	C0900507352	6-1-88	6-1-89	PRODUCTS-COMP/OPS AGGREGATE	\$ 500
	CLAIMS MADE X OCCUR.				PERSONAL & ADVERTISING INJURY	\$ 500
X	OWNER'S & CONTRACTOR'S PROT.				EACH OCCURRENCE	\$ 500
					FIRE DAMAGE (Any one fire)	\$ 50
					MEDICAL EXPENSE (Any one person)	\$ 5
	AUTOMOBILE LIABILITY				COMBINED SINGLE LIMIT	\$ 500
	ANY AUTO				BODILY INJURY (Per person)	\$
	ALL OWNED AUTOS				BODILY INJURY (Per accident)	\$
B X	SCHEDULED AUTOS	BUA700507353	6-1-88	6-1-89	PROPERTY DAMAGE	\$
X	HIRED AUTOS					
X	NON-OWNED AUTOS					
	GARAGE LIABILITY					
	EXCESS LIABILITY				EACH OCCURRENCE	AGGREGATE
A X	OTHER THAN UMBRELLA FORM	CUP300507355	6-1-88	6-1-89	\$ 2,000	\$ 2,000
	WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY	PWC300943199	8-15-88	8-15-89	STATUTORY	
C					\$ 2,000 (EACH ACCIDENT)	
					\$ 2,000 (DISEASE-POLICY LIMIT)	
					\$ 2,000 (DISEASE-EACH EMPLOYEE)	
	OTHER					
B	AUTO PHYSICAL DAMAGE	BUA700507353	6-1-88	6-1-89	\$250 DEDUCTIBLE COMP.	
					\$500 DEDUCTIBLE COLLISION	

RECEIVED
NOV 1 1988

HAZARDOUS MATERIALS/
WASTE PROGRAM

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/RESTRICTIONS/SPECIAL ITEMS
1988 FORD F800 WITH MOBILE DRILLING RIG MODEL B61

CERTIFICATE HOLDER IS LOSS PAYEE AND ADDITIONAL INSURED.

CERTIFICATE HOLDER

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

Richard J. Davis



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (415) 486-0900

LABORATORY NUMBER: 16262
 CLIENT: AQUA SCIENCE ENGINEERS INC.
 PROJECT NAME: EVANS BRO./PORT OF OAKLAND
 JOB #: CC0251

DATE RECEIVED: 11-21-88
 DATE ANALYZED: 11-22-88
 DATE REPORTED: 11-22-88

Total Heavy Petroleum Hydrocarbons in Aqueous Solutions
 EPA 8015 (Modified)
 Extraction Method: EPA 3510

LAB ID	CLIENT ID	KEROSINE (mg/L)	DIESEL (mg/L)	OTHER (mg/L)
16262-1	#1	ND(0.05)	ND(0.05)	1.7 *

Bank made

* Fingerprint pattern does not match Hydrocarbon Standards. Quantitation based on largest peaks C12-C24 boiling range.

ND = Not Detected; Limit of detection in parentheses.

Stephen L. Jones
 LABORATORY DIRECTOR

REPORT ON UNDERGROUND TANK REMOVAL AND REMEDIAL ACTIVITIES

2700 7th Street, Oakland, CA

INTRODUCTION

In November 1988, a 15,000-gallon underground storage tank was removed by Aqua Science Engineers (ASE) from a site owned by the Port of Oakland located at 2700 7th Street in Oakland, California (Figure 1). BASELINE Environmental Consulting was retained by the Port of Oakland to direct soil remediation activities in response to identification of an unauthorized release of total petroleum hydrocarbon compounds based on the analytical results from soil samples collected beneath the tank during tank removal.

This report describes underground tank removal activities and recommended remedial actions as required by the Alameda County Department of Environmental Health, Hazardous Materials Program (Health Department). The first section of this report contains a site description and summary of the underground tank removal activities conducted by ASE, followed by a description of remedial activities undertaken at the site, including soil and groundwater sampling and analytical results; waste removal and disposal activities; and recommendations of further actions.

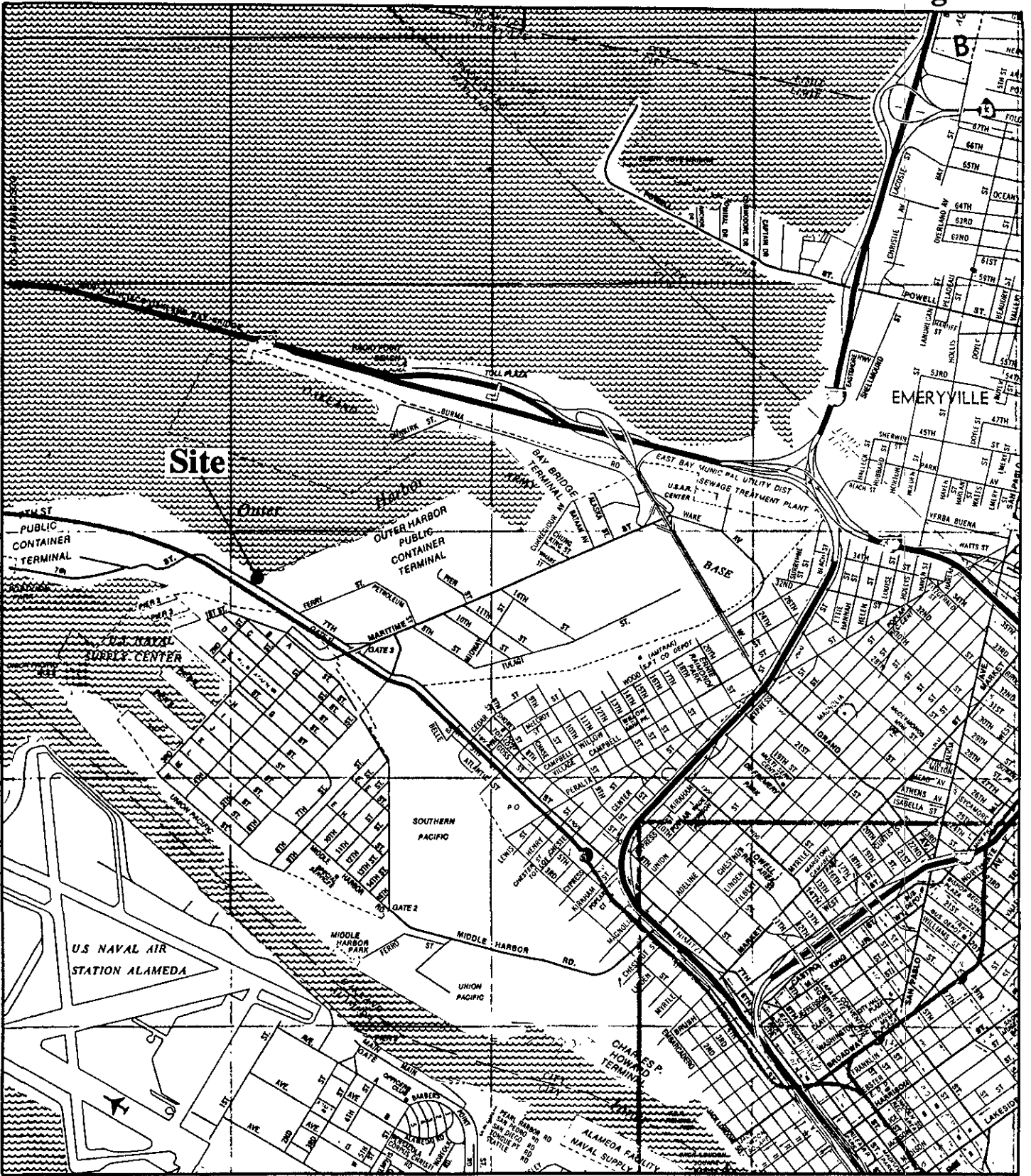
SITE DESCRIPTION

The site is located in the northwestern portion of the City of Oakland immediately adjacent to the Oakland Outer Harbor (Figure 1). Historical and current land use in the vicinity of the site is exclusively commercial and industrial. Port of Oakland shipping terminals are located along the adjacent waterfront to the north, west, and south. A U.S. Navy Supply Center is located southeast of the site.

Based on data obtained from interviews with Port of Oakland personnel, the site was initially developed by Albers Milling Company in the 1920s as a grain storage, milling, and shipping facility. The facility was apparently used by Albers until the 1940s when it was purchased by the Carnation Company. In 1984, Carnation ceased operations at the site and it remained vacant until 1988 when the buildings were demolished by the Port of Oakland for a shipping terminal expansion project (Mr. John Stewart, personal communication).

REGIONAL LOCATION

Figure 1



2700 7th Street
Oakland, California



BASELINE

The site contained one 15,000-gallon steel underground storage tank located at the eastern end of the facility (Figure 2). In addition, Port of Oakland records indicate that at one time the site may have also contained one 10,000-gallon underground storage tank at the western end of the site. However, exploratory excavations by the Port to a depth of 10 feet in the presumed location of this tank were unsuccessful and it is assumed that the tank was never installed or that it had been previously removed.

The 15,000-gallon tank apparently contained diesel fuel which was used to refuel trucks and heavy equipment. It is not known whether tank tests have been conducted and there are no inventory reconciliation records available.

UNDERGROUND TANK REMOVAL ACTIVITIES

The 15,000-gallon underground tank was removed on 28 November 1988 by ASE as part of demolition activities at the site. Underground tank removal activities conducted by ASE are described in the "Project Report - Underground Storage Tank Removal Assessment" (Aqua Science Engineers, December 1988) included as Appendix A to this report. Permits were obtained from the Alameda County Department of Public Health, Hazardous Materials Program and the Alameda County Fire Department (Appendix B).

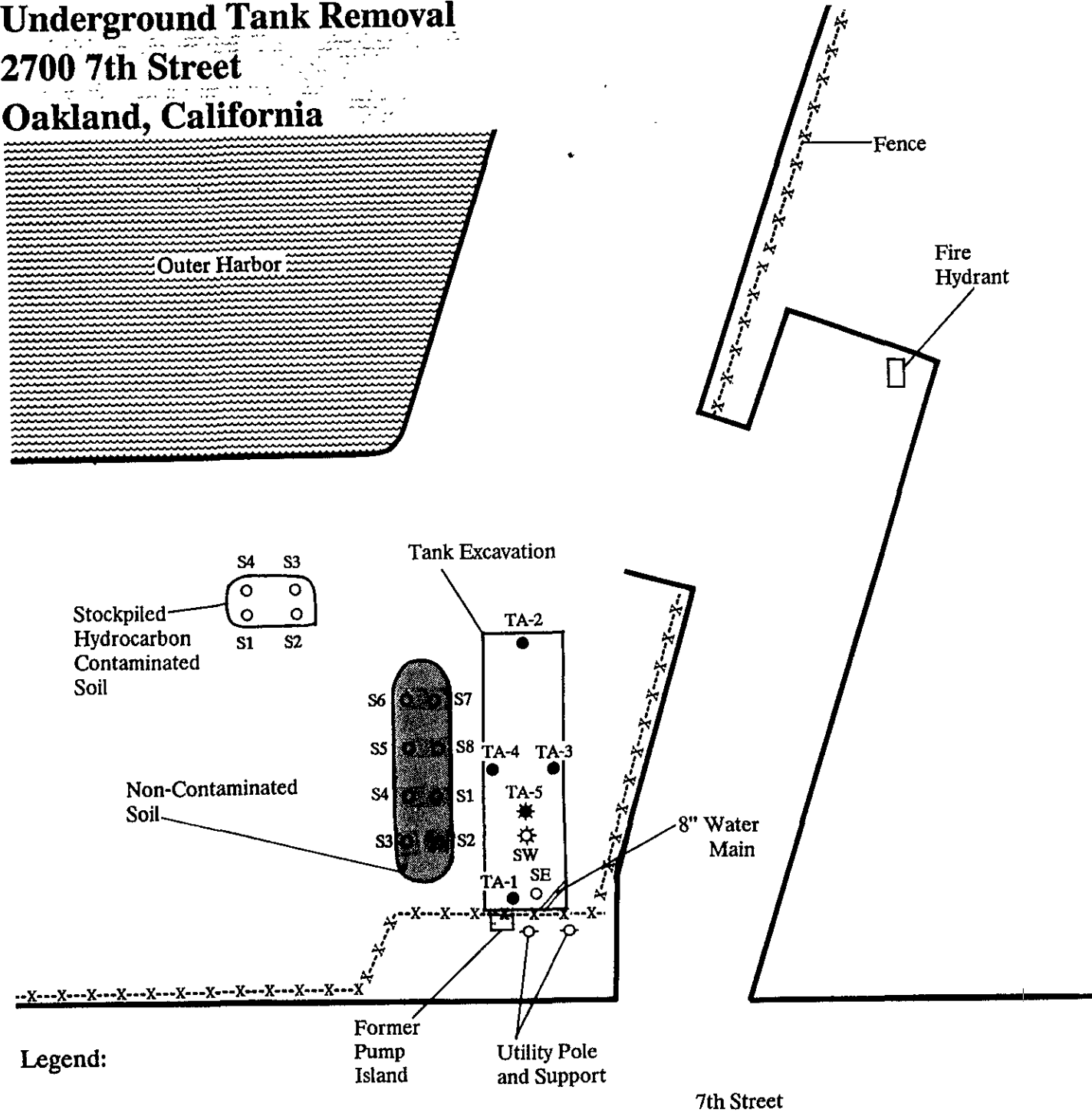
Prior to removing the tank, 3,900 gallons of remaining product was removed and disposed of as hazardous waste. The tank was then purged of explosive vapors, removed from the ground, rinsed and cut into pieces for disposal as scrap metal. The rinsate was sampled on 21 November and analyzed for diesel. The sample did not contain diesel above detection levels, but hydrocarbons in the C12-C24 range were identified at concentrations of 1.7 mg/L (the laboratory report is included in Appendix A). A County representative was on-site observing these tank removal activities.

Field Observations and Air Monitoring Measurements

Hydrocarbon odors were detected on the southern end of the tank excavation during removal of the tank and air monitoring measurements collected in the same area with a GasTech combustible gas indicator identified 300 ppm organic vapors. Inspection of the tank by Aqua

SITE PLAN
Underground Tank Removal
2700 7th Street
Oakland, California

Figure 2



Legend:

- Soil Sampling Location
Aqua Science Engineers
- * Groundwater Sampling Location
Aqua Science Engineers
- Soil Sampling Location
Baseline
- ⊗ Groundwater Sampling Location
Baseline



Not to Scale

BASELINE

ASE staff and the Alameda County Health Department however did not identify any evidence of corrosion, punctures, or leaks in the tank walls.

Soil Sampling Activities and Analytical Results

A total of four soil samples were collected by Aqua Science Engineers immediately following excavation and removal of the tank; two beneath each end of the tank (TA-1 and TA-2) and two from each sidewall at the center of the excavation (TA-3 and TA-4). All four soil samples were collected in the native soil approximately one foot above groundwater level. Soil sample locations are shown in Figure 2. Soil sample collection procedures are described in the ASE Project Report included in Appendix A.

The soil samples were analyzed at Curtis and Tompkins Laboratory in Berkeley for TPH compounds (EPA Method 8015 - modified) and volatile aromatic hydrocarbons (EPA Method 8020). As summarized in Table 1, laboratory analyses of soil sample TA-1 collected at the southern end of the tank excavation following tank removal identified concentrations of TPH compounds above 1,000 mg/kg (3,800 mg/kg as gasoline and 2,600 mg/kg as unspecified). Soil sample TA-1 also contained elevated concentrations of the volatile organic compounds benzene (1.1 mg/kg), toluene (7.4 mg/kg), ethyl benzene (2.5 mg/kg), and total xylenes (116.0 mg/kg). Elevated concentrations of TPH (49.0 mg/kg) were also identified in the eastern sidewall of the excavation. Laboratory reports are included in the ASE Project Report.

An Unauthorized Release form was filed by BASELINE Environmental Consulting with the Alameda County Department of Environmental Health, Hazardous Materials Program following receipt of these analytical results. A copy of the Unauthorized Release form is included as Appendix C of this report.

Groundwater Sampling Activities and Analytical Results

During excavation, groundwater was encountered at approximately 11.0 feet below-ground surface. One groundwater sample (TA-5) was collected by ASE from inside the excavation and analyzed for TPH and benzene, toluene, and xylene (BTX). As summarized in Table 2, laboratory analyses of groundwater sample TA-5 identified elevated TPH compounds at a concentration of 2.4 mg/L; no volatile organic compounds were identified.

TABLE 1
SOIL SAMPLING RESULTS
UNDERGROUND TANK REMOVAL
 2700 7th Street, Oakland, California
 (mg/kg)

Sample I.D.	Total Petroleum Hydrocarbons ¹				Volatile Aromatic Hydrocarbons ²			
	Gasoline	Kerosine	Diesel	Other ³	Benzene	Toluene	Xylenes	Ethylbenzene
Underground Tank Area Sampling								
TA-1 ⁴	3,800	ND	ND	2,600	1.1	7.4	116.0	2.5
TA-2	ND	ND	ND	ND	ND	ND	ND	ND
TA-3	ND	ND	ND	49.0	ND	ND	ND	ND
TA-4	ND	ND	ND	ND	ND	ND	ND	ND
South End ⁵	ND	ND	ND	220.0	ND	ND	ND	ND
Stockpiled Soil Sampling								
S1, S2, S4 ⁶	ND	ND	ND	ND	--	--	--	--
S3 ⁷	ND	ND	ND	340.0	--	--	--	--
S5, S6, S7, S8 ⁶	ND	ND	ND	ND	--	--	--	--
Waste Characterization Sampling								
S1, S2, S3, S4 ⁵	ND	ND	ND	47.0	ND	ND	0.3	ND

¹ Total petroleum hydrocarbon analyses conducted using EPA Method 8015 (modified).

² Volatile aromatic compounds analyses conducted using EPA Method 8020.

³ Fingerprint pattern does not match hydrocarbon standard. Quantitation based on largest peaks within C-12 to C-14 boiling range.

⁴ Samples TA-1 through TA-4 were collected by Aqua Science Engineers, 28 November 1988.

⁵ Sample collected by BASELINE, 24 January 1989.

⁶ Composite sample collected by BASELINE, 30 December 1988.

⁷ Sample collected by BASELINE, 30 December 1988.

⁸ Composite sample collected by BASELINE, 26 January 1989.

ND = Compound not identified above laboratory detection limit.

-- = Sample not analyzed for specific parameter.

Sample locations shown in Figure 2.

Laboratory reports included in Appendix E and F.

TABLE 2

**GROUNDWATER SAMPLING RESULTS
UNDERGROUND TANK REMOVAL**
2700 7th Street, Oakland, CA
(mg/L, unless otherwise noted)

Sample I.D.	Total Petroleum Hydrocarbons ¹				Volatile Aromatic Hydrocarbons ²			
	Gasoline	Kerosine	Diesel (ppm)	Other ³	Benzene	Toluene	Xylenes	Ethylbenzene
#1 ⁴	--	ND	ND	1.7	ND	ND	ND	ND
TA-5 ⁵	--	ND	ND	2.4	ND	ND	ND	ND
SW ⁶	--	ND	ND	ND	ND	ND	ND	ND

¹ Total petroleum hydrocarbons analyzed using EPA Method 8015 (modified).

² Volatile aromatic hydrocarbons analyzed using EPA Method 602.

³ Fingerprint does not match Hydrocarbon Standards Quantitation based on largest peaks C-12 to C-24 boiling range.

⁴ Sample collected by Aqua Science Engineers, 21 November 1988 from tank rinsate.

⁵ Sample collected by Aqua Science Engineers, 28 November 1988.

⁶ Sample collected by BASELINE, 30 December 1988.

Sample locations shown on Figure 2.

Laboratory report included in Appendix E.

REMEDIAL ACTIONS AND CONFIRMATION SAMPLING

Sub-Surface Conditions

The soils underlying the site consist primarily of interbedded sands and crushed shells. Groundwater appears to be under tidal influence and ranges in depth from 8 to 10 feet below ground surface. A search for underground utilities conducted by Underground Service Alert (USA) did not locate any buried utilities in the immediate vicinity of the tank excavation. Port of Oakland records also do not indicate the presence of underground utilities. During excavation, however, an 8-inch water line was uncovered at the south end of the excavation. It is not known if this line is active although it appeared to be connected to a fire hydrant adjacent to the site. A PG&E utility pole and support was located at the southern end of the excavation (Figure 2).